



2045 Mills Road West

TEL: (250) 655-5800

Sidney, BC, Canada V8L5X2

TOLL-FREE: 1-888-373-0881

SGS AXYS Client No.: 4066

Client Address: Tetra Tech, Inc. - Pacific Guardian Ctr.
737 Bishop St., Suite 2340, Mauka Tower
Honolulu, HI, US, 96813-3201

The SGS AXYS contact for these data is Dale Robinson.

"This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."

"The sample(s) to which the findings recorded herein (the "Findings") relate was[were] drawn and [or] provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is[are] said to be extracted."

BATCH SUMMARY

Batch ID: WG88605	Date: 28-Feb-2024
Analysis Type: Perfluorinated Organic (Post)	Matrix Type: Aqueous
BATCH MAKEUP	
Contract: 4066 Samples: L40347-3 HNWWTP-EFFL-EB L40347-6 HNWWTP-EFFL L40347-9 HNWWTP-INFL-EB L40347-12 HNWWTP-INFL	Blank: WG88605-101
	Reference or Spike: WG88605-102
	Duplicate:
Comments: <ol style="list-style-type: none"> 1. Data are considered final. 2. Data are not blank corrected. Blank data should be taken into consideration when evaluating sample data. 3. Blank data should be evaluated against specifications using the same blank sample size as the size of the client samples. 4. In the continuing calibration verification (filename: FC4L_024 S:30, S:41, S:49) some surrogates are observed above the upper method control limit. As the result for the associated targets are observed within method specifications data is not considered impacted. 5. Percent recoveries of several surrogates in the client samples were observed to be outside the method limits and these surrogates have been flagged with a 'V' on the report forms. As the isotope dilution method of quantification produces data that are recovery corrected, the slight variance from the method acceptance criteria is deemed not to affect the quantification of these analytes. Percent surrogate recoveries are used as a general method performance indicator only. 	

Copyright SGS AXYS Analytical Services Ltd
February 2017

FQA-006 Rev. 4. 20-Sep-2013

CHAIN OF CUSTODY

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

SGS AXYS CLIENT #: 4066

REPORT TO:			INVOICE TO:			ANALYSIS REQUESTED				
Company	Hawaii DOH-HEER Office		Company	TetraTech		MLA-100	MLA-111	MLA-119		
Address	2385 Waimano Home Rd #100 Pearl City, HI 96782		Address	737 Bishop St Ste 2340 Honolulu, HI 96813						
Contact	Roger Brewer		Contact	Eric Jensen						
Phone	808-586-4249		Phone	808-225-7084						
FAX			FAX							
E-mail	roger.brewer@doh.hawaii.gov		E-mail	eric.jensen@tetratech.com						
Project Name/Number:			Sampler's Name:							
Signature:			Signature:							
Client Sample Identification	Matrix	Sampling Date	Sampling Time	Container Type/No.	SGS AXYS Lab Sample ID (Lab use only)					
HNWWTP-EFFL	H ₂ O	9/19/23	7:54am	3 500ml	L 40347-6	X	X	X		
HNWWTP-INFL	"	9/19/23	7:37am	3 125ml	-12	X	X	X		
HNWWTP-EFFL-EB	"	9/18/23	7:10am	"	-3	X	X	X		
HNWWTP-INFL-EB	"	9/18/23	7:30am	"	-9	X	X	X		
Relinquished by (Signature)		Date	Time	Received by (Signature)		Courier		Waybill No.		
Progr B		10/3/23	9:00am	AJSS						
Relinquished by (Signature)		Date	Time	Date		Time				
				OCT-2023		09:20				
Remarks				Received by (Signature)		Sample Receipt				
				Date		Temp °C				
				Time		Cooler				
						Custody Seal #				
						Seal Intact Y / N				
						Sample Tags Y / N				

* Filter water samples prior to analysis (0.45um)

SGS AXYS METHOD MLA-111 Rev 03

Form 1A

TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS
REPORT

CLIENT SAMPLE NO.

HNWWTP-EFFL-EB

Sample Collection:

18-Sep-2023 07:10

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4066

Project No.

HONOLULU WWTP

Lab Sample I.D.:

L40347-3

Matrix: AQUEOUS

Sample Size: 0.0608 L

Sample Receipt Date: 06-Oct-2023

Initial Calibration Date: 01-Mar-2023

Extraction Date: 29-Jan-2024

Instrument ID: LCMS/MS

Analysis Date: 31-Jan-2024 Time: 21:50:27

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC4L_024 S: 37

Injection Volume (uL): 2

Blank Data Filename: FC4L_024 S: 34

Dilution Factor: N/A

Cal. Ver. Data Filename: FC4L_024 S: 30

Concentration Units: ng/L

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		13.2 (Q)		
PFPeA	U		6.58 (Q)		
PFHxA	J	7.39	3.29 (Q)	4.20	1.000
PFHpA	U		3.29 (Q)		
PFOA	J	5.04	3.29 (Q)	2.33	
PFNA	U		3.29 (Q)		
PFDA	U		3.29 (Q)		
PFUnA	U		3.29 (Q)		
PFDaA	U		2.63 (Q)		
PFTTrDA	U		3.29 (Q)		
PFTTeDA	U		3.29 (Q)		
PFBS	U		3.29 (Q)		
PFPeS	U		3.31 (Q)		
PFHxS	U		3.29 (Q)		
PFHpS	U		3.29 (Q)		
PFOS	U		3.29 (Q)		
PFNS	U		3.29 (Q)		
PFDS	U		3.29 (Q)		
PFDoS	U		3.29 (Q)		
4:2 FTS	U		13.2 (Q)		
6:2 FTS	U		11.9 (Q)		
8:2 FTS	U		11.2 (Q)		
PFOSA	U		3.29 (Q)		
N-MeFOSA	U		3.29 (Q)		
N-EtFOSA	U		9.21 (Q)		
MeFOSAA	U		3.29 (Q)		
EtFOSAA	U		3.29 (Q)		
N-MeFOSE	U		32.9 (Q)		
N-EtFOSE	U		32.9 (Q)		
3:3 FTCA	U		13.2 (Q)		
5:3 FTCA	U		82.2 (Q)		
7:3 FTCA	U		82.2 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

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

Signed: _____Aaron Kyle_____

TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS
REPORT

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4066

Project No. HONOUILIULI WWTP
Lab Sample I.D.: L40347-3
Sample Size: 0.0608 L
Initial Calibration Date: 01-Mar-2023
Instrument ID: LCMS/MS
Column ID: C18
Sample Data Filename: FC4L_024 S: 37
Blank Data Filename: FC4L_024 S: 34
Cal. Ver. Data Filename: FC4L_024 S: 30

Matrix: AQUEOUS
Sample Receipt Date: 06-Oct-2023
Extraction Date: 29-Jan-2024
Analysis Date: 31-Jan-2024 Time: 21:50:27
Extract Volume (uL): 4000
Injection Volume (uL): 2
Dilution Factor: N/A
Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	RATIO	RRT
13C4-PFBA		40.0	27.5	68.7		0.997
13C5-PFPeA		20.0	17.7	88.6		0.854
13C5-PFHxA		10.0	7.91	79.1	11.7	1.000
13C4-PFHpA		10.0	7.59	75.9		0.878
13C8-PFOA		10.0	7.51	75.1		1.000
13C9-PFNA		5.00	4.43	88.6		1.000
13C6-PFDA		5.00	4.08	81.6		1.000
13C7-PFUnA		5.00	3.62	72.4		1.041
13C2-PFDoA		5.00	3.13	62.7		1.078
13C2-PFTeDA	V	5.00	2.01	40.1		1.174
13C3-PFBS		10.0	9.36	93.5	2.63	0.770
13C3-PFHxS		10.0	9.70	96.8	2.41	1.001
13C8-PFOS		10.1	9.82	97.6	2.18	1.000
13C2-4:2 FTS		20.2	18.2	90.2	1.91	0.810
13C2-6:2 FTS		20.0	18.7	93.4	2.04	1.002
13C2-8:2 FTS		20.0	18.4	91.7	3.36	1.261
13C8-PFOSA	V	10.0	18.8	188		1.157
D3-N-MeFOSA		10.0	11.3	113		1.340
D5-N-EtFOSA		10.0	10.3	103		1.374
D3-MeFOSAA		20.0	25.7	128		1.298
D5-EtFOSAA		20.0	25.3	126		1.321
d7-NMe-FOSE		100	145	145		1.324
d9-NEt-FOSE		100	136	135		1.359

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

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

SGS AXYS METHOD MLA-111 Rev 03

Form 1A

TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS
REPORT

CLIENT SAMPLE NO.

HNWWTP-EFFL

Sample Collection:

19-Sep-2023 07:54

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4066

Project No.

HONOLULU WWTP

Lab Sample I.D.:

L40347-6

Matrix: EFFLUENT FINAL

Sample Size:

0.0641 L

Sample Receipt Date: 06-Oct-2023

Initial Calibration Date:

01-Mar-2023

Extraction Date: 29-Jan-2024

Instrument ID:

LCMS/MS

Analysis Date: 31-Jan-2024 Time: 22:30:55

Column ID:

C18

Extract Volume (uL): 4000

Sample Data Filename:

FC4L_024 S: 40

Injection Volume (uL): 2

Blank Data Filename:

FC4L_024 S: 34

Dilution Factor: N/A

Cal. Ver. Data Filename:

FC4L_024 S: 30

Concentration Units: ng/L

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	J	16.3	12.5 (Q)		1.003
PFPeA	J	16.5	6.24 (Q)		1.001
PFHxA	J	9.68	3.12 (Q)	3.95	1.000
PFHpA	U		3.12 (Q)		
PFOA	J	4.54	3.12 (Q)	2.10	
PFNA	U		3.12 (Q)		
PFDA	U		3.12 (Q)		
PFUnA	U		3.12 (Q)		
PFDaA	U		2.50 (Q)		
PFTTrDA	U		3.12 (Q)		
PFTeDA	U		3.12 (Q)		
PFBS	U		3.12 (Q)		
PFPeS	U		3.14 (Q)		
PFHxS	U		3.12 (Q)		
PFHpS	U		3.12 (Q)		
PFOS	U		3.12 (Q)		
PFNS	U		3.12 (Q)		
PFDS	U		3.12 (Q)		
PFDoS	U		3.12 (Q)		
4:2 FTS	U		12.5 (Q)		
6:2 FTS	U		11.3 (Q)		
8:2 FTS	U		10.6 (Q)		
PFOSA	U		3.12 (Q)		
N-MeFOSA	U		3.12 (Q)		
N-EtFOSA	U		8.74 (Q)		
MeFOSAA	U		3.12 (Q)		
EtFOSAA	U		3.12 (Q)		
N-MeFOSE	U		31.2 (Q)		
N-EtFOSE	U		31.2 (Q)		
3:3 FTCA	U		12.5 (Q)		
5:3 FTCA	U		78.1 (Q)		
7:3 FTCA	U		78.1 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than limit of quantification.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

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

Signed: _____Aaron Kyle_____

Form 2
TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS
REPORT

CLIENT SAMPLE NO.
HNWWTP-EFFL
Sample Collection:
19-Sep-2023 07:54

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4066

Project No.

HONOLULU WWTP

Lab Sample I.D.:

L40347-6

Matrix: EFFLUENT FINAL

Sample Size:

0.0641 L

Sample Receipt Date: 06-Oct-2023

Initial Calibration Date:

01-Mar-2023

Extraction Date: 29-Jan-2024

Instrument ID:

LCMS/MS

Analysis Date: 31-Jan-2024 Time: 22:30:55

Column ID:

C18

Extract Volume (uL): 4000

Sample Data Filename:

FC4L_024 S: 40

Injection Volume (uL): 2

Blank Data Filename:

FC4L_024 S: 34

Dilution Factor: N/A

Cal. Ver. Data Filename:

FC4L_024 S: 30

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	RATIO	RRT
13C4-PFBA		40.0	23.4	58.6		1.000
13C5-PFPeA		20.0	17.0	85.1		0.855
13C5-PFHxA		10.0	7.67	76.7	13.2	1.000
13C4-PFHpA		10.0	7.88	78.8		0.879
13C8-PFOA		10.0	7.94	79.4		1.001
13C9-PFNA		5.00	4.25	85.0		1.000
13C6-PFDA		5.00	4.48	89.7		1.000
13C7-PFUnA		5.00	3.95	79.0		1.041
13C2-PFDoA		5.00	3.11	62.3		1.077
13C2-PFTeDA	V	5.00	1.81	36.2		1.173
13C3-PFBS		10.0	9.76	97.4	2.72	0.770
13C3-PFHxS		10.0	9.73	97.2	2.38	1.000
13C8-PFOS		10.1	10.1	100	2.14	1.000
13C2-4:2 FTS		20.2	18.7	92.7	1.89	0.810
13C2-6:2 FTS		20.0	19.6	98.3	2.19	1.002
13C2-8:2 FTS		20.0	18.7	93.3	3.34	1.261
13C8-PFOSA	V	10.0	18.8	188		1.157
D3-N-MeFOSA		10.0	11.4	114		1.340
D5-N-EtFOSA		10.0	10.4	104		1.374
D3-MeFOSAA		20.0	27.6	138		1.298
D5-EtFOSAA		20.0	26.5	132		1.321
d7-NMe-FOSE		100	146	145		1.324
d9-NEt-FOSE		100	139	139		1.359

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

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

SGS AXYS METHOD MLA-111 Rev 03

Form 1A

TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS
REPORT

CLIENT SAMPLE NO.

HNWWTP-INFL-EB

Sample Collection:

18-Sep-2023 07:30

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4066

Project No.

HONOLULU WWTP

Lab Sample I.D.:

L40347-9

Matrix: AQUEOUS

Sample Size: 0.0625 L

Sample Receipt Date: 06-Oct-2023

Initial Calibration Date: 01-Mar-2023

Extraction Date: 29-Jan-2024

Instrument ID: LCMS/MS

Analysis Date: 31-Jan-2024 Time: 23:38:46

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC4L_024 S: 45

Injection Volume (uL): 2

Blank Data Filename: FC4L_024 S: 34

Dilution Factor: N/A

Cal. Ver. Data Filename: FC4L_024 S: 41

Concentration Units: ng/L

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		12.8 (Q)		
PFPeA	U		6.40 (Q)		
PFHxA	U		3.20 (Q)		
PFHpA	U		3.20 (Q)		
PFOA	U		3.20 (Q)		
PFNA	U		3.20 (Q)		
PFDA	U		3.20 (Q)		
PFUnA	U		3.20 (Q)		
PFDaA	U		2.56 (Q)		
PFTTrDA	U		3.20 (Q)		
PFTeDA	U		3.20 (Q)		
PFBS	U		3.20 (Q)		
PFPeS	U		3.22 (Q)		
PFHxS	U		3.20 (Q)		
PFHpS	U		3.20 (Q)		
PFOS	U		3.20 (Q)		
PFNS	U		3.20 (Q)		
PFDS	U		3.20 (Q)		
PFDoS	U		3.20 (Q)		
4:2 FTS	U		12.8 (Q)		
6:2 FTS	U		11.5 (Q)		
8:2 FTS	U		10.9 (Q)		
PFOSA	U		3.20 (Q)		
N-MeFOSA	U		3.20 (Q)		
N-EtFOSA	U		8.96 (Q)		
MeFOSAA	U		3.20 (Q)		
EtFOSAA	U		3.20 (Q)		
N-MeFOSE	U		32.0 (Q)		
N-EtFOSE	U		32.0 (Q)		
3:3 FTCA	U		12.8 (Q)		
5:3 FTCA	U		80.0 (Q)		
7:3 FTCA	U		80.0 (Q)		

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

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

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

Signed: _____Aaron Kyle_____

Form 2
TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS
REPORT

CLIENT SAMPLE NO.
HNWWTP-INFL-EB
Sample Collection:
18-Sep-2023 07:30

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4066

Project No.

HONOLULU WWTP

Lab Sample I.D.:

L40347-9

Matrix: AQUEOUS

Sample Size: 0.0625 L

Sample Receipt Date: 06-Oct-2023

Initial Calibration Date: 01-Mar-2023

Extraction Date: 29-Jan-2024

Instrument ID: LCMS/MS

Analysis Date: 31-Jan-2024 Time: 23:38:46

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC4L_024 S: 45

Injection Volume (uL): 2

Blank Data Filename: FC4L_024 S: 34

Dilution Factor: N/A

Cal. Ver. Data Filename: FC4L_024 S: 41

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	RATIO	RRT
13C4-PFBA	V	40.0	14.4	36.0		0.997
13C5-PFPeA		20.0	17.5	87.7		0.855
13C5-PFHxA		10.0	7.84	78.4	12.2	1.000
13C4-PFHpA		10.0	8.01	80.1		0.878
13C8-PFOA		10.0	8.09	80.9		0.999
13C9-PFNA		5.00	4.69	93.8		1.000
13C6-PFDA		5.00	4.11	82.2		1.000
13C7-PFUnA		5.00	3.79	75.9		1.042
13C2-PFDoA		5.00	3.36	67.2		1.077
13C2-PFTeDA	V	5.00	2.17	43.4		1.174
13C3-PFBS		10.0	9.44	94.2	2.61	0.770
13C3-PFHxS		10.0	9.82	98.0	2.35	1.000
13C8-PFOS		10.1	10.0	99.8	2.30	1.000
13C2-4:2 FTS		20.2	18.5	92.0	2.02	0.810
13C2-6:2 FTS		20.0	19.1	95.4	2.16	1.002
13C2-8:2 FTS		20.0	19.0	94.6	3.62	1.261
13C8-PFOSA	V	10.0	18.4	184		1.158
D3-N-MeFOSA		10.0	11.0	110		1.340
D5-N-EtFOSA		10.0	9.67	96.7		1.375
D3-MeFOSAA		20.0	25.2	126		1.298
D5-EtFOSAA		20.0	26.0	130		1.320
d7-NMe-FOSE		100	145	145		1.324
d9-NEt-FOSE		100	135	135		1.360

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

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

Signed: _____Aaron Kyle_____

SGS AXYS METHOD MLA-111 Rev 03

Form 1A

TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS REPORT

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA

V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4066

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

CLIENT SAMPLE NO.

HNWWTP-INFL

Sample Collection:

19-Sep-2023 07:37

HONOULIULI WWTP

L40347-12

0.0656 L

01-Mar-2023

LCMS/MS

C18

FC4L_024 S: 48

FC4L_024 S: 34

FC4L_024 S: 41

Matrix:

INFLUENT

Sample Receipt Date:

06-Oct-2023

Extraction Date:

29-Jan-2024

Analysis Date:

01-Feb-2024 Time: 00:19:14

Extract Volume (uL):

4000

Injection Volume (uL):

2

Dilution Factor:

N/A

Concentration Units:

ng/L

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		12.2 (Q)		
PFPeA	J	8.29	6.10 (Q)		1.001
PFHxA	J	6.58	3.05 (Q)	6.07	1.000
PFHpA	U		3.05 (Q)		
PFOA	J	3.20	3.05 (Q)	2.62	
PFNA	U		3.05 (Q)		
PFDA	U		3.05 (Q)		
PFUnA	U		3.05 (Q)		
PFDaA	U		2.44 (Q)		
PFTTrDA	U		3.05 (Q)		
PFTeDA	U		3.05 (Q)		
PFBS	U		3.05 (Q)		
PFPeS	U		3.06 (Q)		
PFHxS	U		3.05 (Q)		
PFHpS	U		3.05 (Q)		
PFOS	J	3.20	3.05 (Q)	2.30	
PFNS	U		3.05 (Q)		
PFDS	U		3.05 (Q)		
PFDoS	U		3.05 (Q)		
4:2 FTS	U		12.2 (Q)		
6:2 FTS	U		11.0 (Q)		
8:2 FTS	U		10.4 (Q)		
PFOSA	U		3.05 (Q)		
N-MeFOSA	U		3.05 (Q)		
N-EtFOSA	U		8.53 (Q)		
MeFOSAA	U		3.05 (Q)		
EtFOSAA	U		3.05 (Q)		
N-MeFOSE	U		30.5 (Q)		
N-EtFOSE	U		30.5 (Q)		
3:3 FTCA	U		12.2 (Q)		
5:3 FTCA	U		76.2 (Q)		
7:3 FTCA	U		76.2 (Q)		

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

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

Signed: _____Aaron Kyle_____

SGS AXYS METHOD MLA-111 Rev 03

Form 2
TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS
REPORT

CLIENT SAMPLE NO.
HNWWTP-INFL
Sample Collection:
19-Sep-2023 07:37

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4066

Project No. HONOULIULI WWTP
Lab Sample I.D.: L40347-12
Sample Size: 0.0656 L
Initial Calibration Date: 01-Mar-2023
Instrument ID: LCMS/MS
Column ID: C18
Sample Data Filename: FC4L_024 S: 48
Blank Data Filename: FC4L_024 S: 34
Cal. Ver. Data Filename: FC4L_024 S: 41

Matrix: INFLUENT
Sample Receipt Date: 06-Oct-2023
Extraction Date: 29-Jan-2024
Analysis Date: 01-Feb-2024 Time: 00:19:14
Extract Volume (uL): 4000
Injection Volume (uL): 2
Dilution Factor: N/A
Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	RATIO	RRT
13C4-PFBA		40.0	28.5	71.2		0.997
13C5-PFPeA		20.0	17.1	85.4		0.855
13C5-PFHxA		10.0	7.49	74.9	11.2	1.000
13C4-PFHpA		10.0	7.74	77.4		0.879
13C8-PFOA		10.0	7.81	78.1		1.000
13C9-PFNA		5.00	4.66	93.1		1.000
13C6-PFDA		5.00	4.20	84.0		0.999
13C7-PFUnA		5.00	4.07	81.4		1.041
13C2-PFDoA		5.00	3.68	73.5		1.077
13C2-PFTeDA		5.00	2.51	50.2		1.173
13C3-PFBS		10.0	9.43	94.1	2.63	0.770
13C3-PFHxS		10.0	9.66	96.4	2.26	1.000
13C8-PFOS		10.1	10.3	103	2.22	1.000
13C2-4:2 FTS		20.2	18.7	92.8	1.93	0.810
13C2-6:2 FTS		20.0	19.2	96.1	2.20	1.002
13C2-8:2 FTS		20.0	19.1	95.1	3.60	1.261
13C8-PFOSA	V	10.0	19.3	193		1.158
D3-N-MeFOSA		10.0	11.5	115		1.340
D5-N-EtFOSA		10.0	10.6	106		1.375
D3-MeFOSAA		20.0	25.1	125		1.298
D5-EtFOSAA		20.0	25.9	129		1.320
d7-NMe-FOSE	V	100	151	151		1.324
d9-NEt-FOSE		100	141	141		1.360

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

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

SGS AXYS METHOD MLA-111 Rev 03

Form 1A

TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS
REPORT

CLIENT SAMPLE NO.

Lab Blank

Sample Collection:

N/A

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4066

Project No.

N/A

Lab Sample I.D.:

WG88605-101

Matrix: AQUEOUS

Sample Size: 0.0600 L

Sample Receipt Date: N/A

Initial Calibration Date: 01-Mar-2023

Extraction Date: 29-Jan-2024

Instrument ID: LCMS/MS

Analysis Date: 31-Jan-2024 Time: 21:09:43

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC4L_024 S: 34

Injection Volume (uL): 2

Blank Data Filename: FC4L_024 S: 34

Dilution Factor: N/A

Cal. Ver. Data Filename: FC4L_024 S: 30

Concentration Units: ng/L

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		13.3 (Q)		
PFPeA	U		6.67 (Q)		
PFHxA	U		3.33 (Q)		
PFHpA	U		3.33 (Q)		
PFOA	U		3.33 (Q)		
PFNA	U		3.33 (Q)		
PFDA	U		3.33 (Q)		
PFUnA	U		3.33 (Q)		
PFDaA	U		2.67 (Q)		
PFTTrDA	U		3.33 (Q)		
PFTTeDA	U		3.33 (Q)		
PFBS	U		3.33 (Q)		
PFPeS	U		3.35 (Q)		
PFHxS	U		3.33 (Q)		
PFHpS	U		3.33 (Q)		
PFOS	U		3.33 (Q)		
PFNS	U		3.33 (Q)		
PFDS	U		3.33 (Q)		
PFDoS	U		3.33 (Q)		
4:2 FTS	U		13.3 (Q)		
6:2 FTS	U		12.0 (Q)		
8:2 FTS	U		11.3 (Q)		
PFOSA	U		3.33 (Q)		
N-MeFOSA	U		3.33 (Q)		
N-EtFOSA	U		9.33 (Q)		
MeFOSAA	U		3.33 (Q)		
EtFOSAA	U		3.33 (Q)		
N-MeFOSE	U		33.3 (Q)		
N-EtFOSE	U		33.3 (Q)		
3:3 FTCA	U		13.3 (Q)		
5:3 FTCA	U		83.3 (Q)		
7:3 FTCA	U		83.3 (Q)		

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

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

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

Signed: _____Aaron Kyle_____

TOTAL OXIDIZABLE PRECURSOR - POSTOXIDATION ANALYSIS
REPORT

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4066

Project No.

N/A

Lab Sample I.D.:

WG88605-101

Matrix: AQUEOUS

Sample Size:

0.0600 L

Sample Receipt Date: N/A

Initial Calibration Date:

01-Mar-2023

Extraction Date: 29-Jan-2024

Instrument ID:

LCMS/MS

Analysis Date: 31-Jan-2024 Time: 21:09:43

Column ID:

C18

Extract Volume (uL): 4000

Sample Data Filename:

FC4L_024 S: 34

Injection Volume (uL): 2

Blank Data Filename:

FC4L_024 S: 34

Dilution Factor: N/A

Cal. Ver. Data Filename:

FC4L_024 S: 30

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	RATIO	RRT
13C4-PFBA	V	40.0	15.1	37.8		1.000
13C5-PFPeA		20.0	16.7	83.4		0.855
13C5-PFHxA		10.0	7.60	76.0	12.4	1.000
13C4-PFHpA		10.0	7.92	79.2		0.879
13C8-PFOA		10.0	8.18	81.8		1.000
13C9-PFNA		5.00	4.53	90.5		1.000
13C6-PFDA		5.00	4.32	86.4		1.000
13C7-PFUnA		5.00	4.10	81.9		1.041
13C2-PFDoA		5.00	3.86	77.2		1.077
13C2-PFTeDA		5.00	2.87	57.5		1.174
13C3-PFBS		10.0	9.34	93.2	2.47	0.770
13C3-PFHxS		10.0	9.91	99.0	2.43	1.000
13C8-PFOS		10.1	10.2	101	2.23	0.999
13C2-4:2 FTS		20.2	18.6	92.1	1.96	0.810
13C2-6:2 FTS		20.0	18.9	94.5	2.22	1.002
13C2-8:2 FTS		20.0	17.5	87.1	3.52	1.261
13C8-PFOSA	V	10.0	18.5	185		1.157
D3-N-MeFOSA		10.0	11.2	112		1.340
D5-N-EtFOSA		10.0	10.0	100		1.374
D3-MeFOSAA		20.0	25.5	128		1.298
D5-EtFOSAA		20.0	25.1	126		1.320
d7-NMe-FOSE		100	142	142		1.324
d9-NEt-FOSE		100	133	132		1.359

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

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

PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4066	Lab Sample I.D.:	WG88605-102
Matrix:	AQUEOUS	Initial Calibration Date:	01-Mar-2023
Extraction Date:	29-Jan-2024	Instrument ID:	LCMS/MS
Analysis Date:	31-Jan-2024 Time: 20:42:20	Column ID:	C18
Extract Volume (uL):	4000	OPR Data Filename:	FC4L_024 S: 32
Injection Volume (uL):	2	Blank Data Filename:	FC4L_024 S: 34
Dilution Factor:	N/A	Cal. Ver. Data Filename:	FC4L_024 S: 30

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

COMPOUND	LAB FLAG ¹	RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	% RECOVERY	RRT
PFBA			45.2	52.4	116	1.003
PFPeA			33.3	33.8	102	1.000
PFHxA		4.50	32.1	29.9	93.2	1.000
PFHpA		2.11	28.8	24.8	86.0	1.000
PFOA		2.07	100	114	113	
PFNA		2.60	7.88	7.41	94.1	
PFDA		2.90	5.00	4.73	94.7	1.000
PFUnA		4.12	5.00	5.30	106	1.000
PFDoA		8.35	5.00	4.51	90.3	0.999
PFTTrDA		3.09	5.00	5.51	110	0.956
PFTeDA		2.58	5.00	4.95	99.0	1.000
PFBS		2.62	5.00	5.25	105	1.000
PFPeS		2.15	4.98	4.99	100	0.868
PFHxS		2.40	5.00	4.89	97.7	
PFHpS		2.03	5.01	5.61	112	0.938
PFOS		2.63	5.42	5.46	101	
PFNS		2.38	5.00	4.61	92.1	1.041
PFDS		2.41	5.00	4.87	97.4	1.079
PFDoS		2.29	5.00	4.07	81.5	1.182
4:2 FTS	U		100		0	
6:2 FTS	U		100		0	
8:2 FTS	U		100		0	
MeFOSAA	U		70.0		0	
EtFOSAA	U		70.0		0	

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

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

Signed: _____Aaron Kyle_____

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

For Axys Internal Use Only [XSL Template: FC2-Form8A.xsl; Created: 28-Feb-2024 09:43:11; Application: XMLTransformer-1.18.48; Report Filename: PFC_FC_LC_PFA POSTTOP_WG88605-102_Form8A_SJ3388720.html; Workgroup: WG88605; Design ID: 3989]

PERFLUORINATED ORGANICS ONGOING PRECISION AND RECOVERY (OPR)

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4066	Lab Sample I.D.:	WG88605-102
Matrix:	AQUEOUS	Initial Calibration Date:	01-Mar-2023
Extraction Date:	29-Jan-2024	Instrument ID:	LCMS/MS
Analysis Date:	31-Jan-2024 Time: 20:42:20	Column ID:	C18
Extract Volume (uL):	4000	OPR Data Filename:	FC4L_024 S: 32
Injection Volume (uL):	2	Blank Data Filename:	FC4L_024 S: 34
Dilution Factor:	N/A	Cal. Ver. Data Filename:	FC4L_024 S: 30

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

LABELLED COMPOUND	LAB FLAG ¹	RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	% RECOVERY	RRT
13C4-PFBA			40.0	28.4	71.0	1.000
13C5-PFPeA			20.0	16.9	84.7	0.854
13C5-PFHxA		12.2	10.0	7.51	75.1	1.000
13C4-PFHpA			10.0	7.85	78.5	0.879
13C8-PFOA			10.0	7.69	76.9	1.000
13C9-PFNA			5.00	4.70	94.0	1.000
13C6-PFDA			5.00	4.45	89.0	1.000
13C7-PFUnA			5.00	4.13	82.5	1.042
13C2-PFDoA			5.00	4.07	81.3	1.078
13C2-PFTeDA			5.00	3.13	62.6	1.173
13C3-PFBS		2.74	10.0	9.43	94.1	0.770
13C3-PFHxS		2.46	10.0	9.88	98.7	1.000
13C8-PFOS		2.09	10.1	9.99	99.2	1.000
13C2-4:2 FTS		1.80	20.2	18.7	92.9	0.810
13C2-6:2 FTS		2.17	20.0	18.8	93.9	1.002
13C2-8:2 FTS		3.32	20.0	17.7	88.3	1.262
D3-MeFOSAA			20.0	25.2	126	1.299
D5-EtFOSAA			20.0	24.3	122	1.321

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

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

Signed: _____Aaron Kyle_____

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

SGS AXYS METHOD MLA-111 Rev 03

Form 3A

INITIAL CALIBRATION RELATIVE RESPONSES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 01-Mar-2023

Instrument ID: LC MS/MS

LC Column ID: C18

CS0 Data Filename: N/A

CS1 Data Filename: FC3L_107 S: 16

CS2 Data Filename: FC3L_107 S: 17

CS3 Data Filename: FC3L_107 S: 18

CS4 Data Filename: FC3L_107 S: 19

CS5 Data Filename: FC3L_107 S: 20

CS6 Data Filename: FC3L_107 S: 21

CS7 Data Filename: FC3L_107 S: 22

CS8 Data Filename: FC3L_107 S: 23

COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)								MEAN RR	CV (%RSD) ²	
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7			CS8
PFBA			0.86	0.83	0.85	0.81	0.85	0.82	0.82	0.82	0.83	2.14
PFPeA			1.14	1.11	1.07	0.98	1.07	1.04	1.00	1.00	1.05	5.39
PFHxA			1.33	1.23	1.13	1.03	1.04	1.00	1.01	1.05	1.10	11.0
PFFHpA			1.15	1.24	1.20	1.13	1.16	1.11	1.13	1.13	1.16	3.70
PFOA			1.47	1.32	1.34	1.34	1.26	1.29	1.28	1.27	1.32	5.22
PFNA			1.08	1.00	0.99	1.04	0.99	0.99	0.98	0.97	1.01	3.77
PFDA			0.83	0.74	0.70	0.66	0.74	0.67	0.70	0.68	0.71	7.38
PFFUnA			0.78	0.76	0.77	0.70	0.75	0.71	0.70	0.70	0.73	4.69
PFDaA			1.18	1.14	1.11	1.12	1.17	1.09	1.07	1.02	1.11	4.78
PFFTrDA			0.98	0.92	0.84	0.81	0.83	0.80	0.80	0.75	0.84	8.87
PFFTeDA			0.87	0.83	0.77	0.75	0.78	0.76	0.74	0.68	0.77	7.62
PFBS			1.14	1.01	1.05	1.05	1.08	1.04	1.06	1.04	1.06	3.67
PFPeS			1.00	0.92	0.99	0.95	1.01	0.94	0.96	0.91	0.96	3.99
PFHxS			1.37	1.28	1.26	1.14	1.26	1.16	1.19	1.20	1.23	6.14
PFFHpS			1.11	1.09	1.00	0.97	1.02	0.99	1.00	0.93	1.01	5.99
PFOS			1.25	1.14	1.12	1.02	1.11	1.17	1.10	1.06	1.12	6.16
PFNS			1.05	1.00	1.02	0.97	1.01	0.96	0.99	0.97	0.99	2.96
PFDS			0.93	0.97	0.92	0.89	0.94	0.93	0.95	0.94	0.94	2.43
PFDoS			0.84	0.82	0.86	0.79	0.86	0.84	0.87	0.87	0.85	3.31
4:2 FTS			0.53	0.50	0.49	0.45	0.49	0.47	0.45	0.42	0.47	7.27
6:2 FTS			0.51	0.46	0.48	0.43	0.46	0.44	0.43	0.40	0.45	7.25
8:2 FTS			0.35	0.30	0.32	0.30	0.32	0.30	0.30	0.25	0.31	9.70
PFOSA			0.97	0.96	0.93	0.89	0.92	0.90	0.90	0.91	0.92	3.33
N-MeFOSA			0.90	1.05	0.93	0.93	0.92	0.96	0.95	0.90	0.94	4.82
N-EtFOSA			1.15	1.14	1.08	1.10	1.18	1.10	1.18	1.13	1.13	3.25
MeFOSAA			0.87	0.93	1.00	0.91	0.94	0.88	0.86		0.91	5.56
EtFOSAA			0.77	0.75	0.68	0.75	0.78	0.73	0.74		0.74	4.16
N-MeFOSE			0.81	0.78	0.77	0.74	0.77	0.76	0.74	0.73	0.76	3.65
N-EtFOSE			1.08	1.03	1.03	0.99	1.04	1.02	1.01	0.98	1.02	3.19
3:3 FTCA			0.07	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.07	8.61
5:3 FTCA			0.18	0.16	0.17	0.17	0.17	0.17	0.18	0.21	0.18	7.83
7:3 FTCA			0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.12	0.10	7.99

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

(2) For contract CV specifications, see SGS AXYS METHOD MLA-111 Rev 03

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

Signed: _____ Jordan Berends _____

SGS AXYS METHOD MLA-111 Rev 03

Form 3B
INITIAL CALIBRATION RELATIVE RESPONSES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 01-Mar-2023

Instrument ID: LC MS/MS

LC Column ID: C18

CS0 Data Filename: N/A

CS1 Data Filename: FC3L_107 S: 16

CS2 Data Filename: FC3L_107 S: 17

CS3 Data Filename: FC3L_107 S: 18

CS4 Data Filename: FC3L_107 S: 19

CS5 Data Filename: FC3L_107 S: 20

CS6 Data Filename: FC3L_107 S: 21

CS7 Data Filename: FC3L_107 S: 22

CS8 Data Filename: FC3L_107 S: 23

LABELED COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)								MEAN RR	CV (%RSD) ²	
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7			CS8
13C4-PFBA			1.07	1.11	1.08	1.05	1.08	1.09	1.09	1.07	1.08	1.60
13C5-PFPeA			0.93	0.95	0.93	0.92	0.94	0.93	0.95	0.90	0.93	1.71
13C5-PFHxA			0.65	0.70	0.66	0.64	0.69	0.66	0.66	0.63	0.66	3.33
13C4-PFHpA			3.41	3.65	3.45	3.36	3.21	3.53	3.36	3.31	3.41	3.96
13C8-PFOA			3.71	3.92	3.85	3.61	3.62	3.81	3.68	3.81	3.75	3.04
13C9-PFNA			1.02	1.04	1.03	1.05	1.06	1.05	1.04	1.02	1.04	1.56
13C6-PFDA			0.99	1.10	1.05	1.02	1.02	1.04	1.00	1.01	1.03	3.30
13C7-PFUnA			1.07	1.14	1.11	1.07	1.10	1.09	1.06	1.04	1.08	3.02
13C2-PFDoA			0.88	0.94	0.91	0.85	0.87	0.90	0.88	0.95	0.90	3.90
13C2-PFTeDA			0.92	0.98	0.98	0.94	0.98	0.96	0.96	1.06	0.97	4.24
13C3-PFBS			1.31	1.40	1.31	1.24	1.37	1.30	1.25	1.08	1.28	7.48
13C3-PFHxS			1.10	1.15	1.12	1.07	1.12	1.11	1.12	1.10	1.11	2.19
13C8-PFOS			1.04	1.03	1.05	1.06	1.05	1.04	0.99	1.05	1.04	1.93
13C2-4:2 FTS			1.22	1.17	1.10	1.15	1.11	1.01	0.95	0.92	1.08	9.94
13C2-6:2 FTS			1.00	1.00	0.94	0.97	0.98	0.93	0.97	1.01	0.98	2.97
13C2-8:2 FTS			1.49	1.45	1.42	1.44	1.43	1.34	1.33	1.40	1.41	3.76
13C8-PFOSA			1.72	1.76	1.77	1.72	1.77	1.75	1.73	1.93	1.77	3.87
D3-N-MeFOSA			0.24	0.26	0.27	0.26	0.27	0.25	0.25	0.28	0.26	5.17
D5-N-EtFOSA			0.25	0.26	0.26	0.25	0.25	0.26	0.24	0.26	0.25	3.36
D3-MeFOSAA			0.45	0.45	0.46	0.42	0.47	0.50	0.62		0.48	13.6
D5-EtFOSAA			0.40	0.40	0.39	0.39	0.42	0.43	0.52		0.42	10.7
d7-NMe-FOSE			2.21	2.19	2.26	2.22	2.24	2.17	2.19	2.37	2.23	2.77
d9-NEt-FOSE			1.85	1.84	1.90	1.88	1.88	1.83	1.80	1.95	1.87	2.49

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

(2) For contract CV specifications, see SGS AXYS METHOD MLA-111 Rev 03.

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

Signed: _____ Jordan Berends _____

Form 3C
LC MS/MS INITIAL CALIBRATION RATIOS

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 01-Mar-2023

Instrument ID: LC MS/MS

LC Column ID: C18

CS0 Data Filename: N/A
CS1 Data Filename: FC3L_107 S: 16
CS2 Data Filename: FC3L_107 S: 17
CS3 Data Filename: FC3L_107 S: 18
CS4 Data Filename: FC3L_107 S: 19
CS5 Data Filename: FC3L_107 S: 20
CS6 Data Filename: FC3L_107 S: 21
CS7 Data Filename: FC3L_107 S: 22
CS8 Data Filename: FC3L_107 S: 23

COMPOUND	LAB FLAG ¹	RATIOS								
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8
PFBA										
PFPeA										
PFHxA			5.24	5.95	5.71	5.10	5.29	5.21	5.37	5.23
PFHpA			2.11	2.24	2.38	2.36	2.23	2.23	2.23	2.21
PFOA			2.14	1.90	2.05	2.03	1.95	1.99	2.00	1.99
PFNA			2.97	2.71	2.79	2.82	2.69	2.84	2.83	2.78
PFDA			3.28	3.99	2.90	3.07	3.10	2.98	3.12	3.01
PFUnA			5.66	5.27	4.47	4.61	4.63	4.60	4.49	4.49
PFDaA			7.35	7.43	7.38	7.72	7.38	7.27	7.30	7.39
PFTTrDA			3.39	3.56	3.13	3.19	3.16	3.16	3.17	3.20
PFTeDA			2.56	2.87	2.55	2.81	2.83	2.83	2.78	2.79
PFBS			2.64	2.75	2.72	2.70	2.75	2.74	2.76	2.72
PFPeS			2.35	2.06	2.47	2.30	2.27	2.33	2.37	2.34
PFHxS			2.33	2.29	2.49	2.42	2.61	2.44	2.50	2.45
PFHpS			2.38	2.02	2.09	2.03	2.15	2.08	2.09	2.07
PFOS			2.07	2.49	2.62	2.63	2.60	2.67	2.61	2.60
PFNS			2.39	2.19	2.34	2.41	2.27	2.28	2.24	2.30
PFDS			2.05	2.40	2.30	2.33	2.30	2.30	2.31	2.30
PFDoS			1.86	2.05	2.15	2.13	2.14	2.23	2.18	2.21
4:2 FTS			0.45	0.45	0.45	0.43	0.45	0.45	0.44	0.45
6:2 FTS			0.44	0.42	0.43	0.40	0.41	0.41	0.41	0.42
8:2 FTS			0.55	0.48	0.51	0.53	0.52	0.53	0.53	0.54
PFOSA										
N-MeFOSA			0.48	0.60	0.52	0.53	0.53	0.53	0.54	0.53
N-EtFOSA			0.49	0.53	0.49	0.51	0.52	0.53	0.54	0.53
MeFOSAA			1.36	2.00	2.51	2.02	1.92	1.89	1.91	
EtFOSAA			1.43	1.05	1.05	1.25	1.14	1.12	1.15	
N-MeFOSE										
N-EtFOSE										
3:3 FTCA			1.60	1.42	1.60	1.50	1.59	1.60	1.57	1.60
5:3 FTCA			1.37	1.31	1.40	1.40	1.39	1.40	1.41	1.41
7:3 FTCA			0.62	0.67	0.65	0.68	0.66	0.64	0.66	0.66

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

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

Signed: _____ Jordan Berends _____

Form 3D
LC MS/MS INITIAL CALIBRATION RATIOS

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 01-Mar-2023

Instrument ID: LC MS/MS

LC Column ID: C18

CS0 Data Filename: N/A
CS1 Data Filename: FC3L_107 S: 16
CS2 Data Filename: FC3L_107 S: 17
CS3 Data Filename: FC3L_107 S: 18
CS4 Data Filename: FC3L_107 S: 19
CS5 Data Filename: FC3L_107 S: 20
CS6 Data Filename: FC3L_107 S: 21
CS7 Data Filename: FC3L_107 S: 22
CS8 Data Filename: FC3L_107 S: 23

Labeled Compound	Lab Flag ¹	Ratios								
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8
13C4-PFBA										
13C5-PFPeA										
13C5-PFHxA			14.8	14.6	14.9	13.9	14.9	15.4	16.1	14.7
13C4-PFHpA										
13C8-PFOA										
13C9-PFNA										
13C6-PFDA										
13C7-PFUnA										
13C2-PFDoA										
13C2-PFTeDA										
13C3-PFBS			2.83	2.71	2.68	2.63	2.82	2.82	2.70	2.77
13C3-PFHxS			2.45	2.41	2.44	2.36	2.39	2.49	2.50	2.50
13C8-PFOS			2.24	2.18	2.09	2.25	2.16	2.28	2.19	2.17
13C2-4:2 FTS			1.85	1.81	1.78	1.77	1.74	1.51	1.22	0.55
13C2-6:2 FTS			2.22	2.19	2.07	2.13	2.03	1.83	1.52	0.74
13C2-8:2 FTS			3.37	3.31	3.31	3.25	3.06	2.99	2.34	1.27
13C8-PFOSA										
D3-N-MeFOSA										
D5-N-EtFOSA										
D3-MeFOSAA										
D5-EtFOSAA										
d7-NMe-FOSE										
d9-NEt-FOSE										

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

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

Signed: _____Jordan Berends_____

For Axys Internal Use Only [XSL Template: FC2-Form3D.xsl; Created: 28-Feb-2024 09:43:11; Application: XMLTransformer-1.18.48; Report Filename: PFOA_FC_LC_01-Mar-2023_FC3L_Form3D_GS107606.html; Workgroup: WG88605; Design ID: 3989]

Form 4A
LC MS/MS CALIBRATION VERIFICATION

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

Initial Calibration Date: 01-Mar-2023 VER Data Filename: FC4L_024 S: 30
Instrument ID: LCMS/MS Analysis Date: 31-Jan-2024
LC Column ID: C18 Analysis Time: 20:14:41

COMPOUND	LAB FLAG ¹	RRT	QUANT TRANSITION	RATIO	EXPECTED CONC. (ng)	CONC. FOUND (ng)	RECOVERY (%)
PFBA		1.003	213 > 169		20.0	21.2	106
PFPeA		1.000	263 > 219		10.0	9.99	99.9
PFHxA		1.000	313 > 269	4.33	5.00	5.08	102
PFHpA		1.000	363 > 319	2.11	5.00	5.51	110
PFOA		1.000	413 > 369	2.12	5.00	5.67	113
PFNA		1.000	463 > 419	2.80	5.00	5.35	107
PFDA		1.000	513 > 469	2.82	5.00	4.78	95.6
PFUnA		1.000	563 > 519	4.21	5.00	5.18	104
PFDoA		1.000	613 > 569	7.97	4.06	4.51	111
PFTTrDA		0.956	663 > 619	3.03	5.00	5.37	107
PFTTeDA		1.000	713 > 669	2.80	5.00	5.43	109
PFBS		1.000	299 > 80	2.58	5.00	4.81	96.2
PFPeS		0.868	349 > 80	2.31	5.00	5.58	112
PFHxS		1.000	399 > 80	2.38	5.00	4.96	99.3
PFHpS		0.938	449 > 80	2.04	5.00	5.41	108
PFOS		1.000	499 > 80	2.44	5.00	4.85	97.1
PFNS		1.040	549 > 80	2.42	5.00	4.83	96.7
PFDS		1.079	599 > 80	2.47	5.00	5.28	106
PFDoS		1.182	699 > 80	2.23	5.00	4.67	93.3
4:2 FTS		0.999	327 > 307	0.41	20.0	20.4	102
6:2 FTS		0.999	427 > 407	0.39	18.0	19.1	107
8:2 FTS		1.000	527 > 507	0.56	17.0	17.9	105
PFOSA		1.000	498 > 78		5.00	5.57	111
N-MeFOSA		1.000	512 > 219	0.53	5.00	5.67	113
N-EtFOSA		1.001	526 > 219	0.51	14.0	14.9	107
MeFOSAA		1.000	570 > 419	2.04	5.00	5.04	101
EtFOSAA		1.001	584 > 419	1.17	5.00	5.11	102
N-MeFOSE		1.002	616 > 59		50.0	53.2	106
N-EtFOSE		1.002	630 > 59		50.0	52.0	104
3:3 FTCA			241 > 177	1.55	20.0	17.5	87.5
5:3 FTCA		1.062	341 > 237	1.45	125	140	112
7:3 FTCA		1.399	441 > 317	0.64	125	121	97.0

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

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

Signed: _____Aaron Kyle_____

Form 4B
LC MS/MS CALIBRATION VERIFICATION

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

Initial Calibration Date:	01-Mar-2023	VER Data Filename:	FC4L_024 S: 30
Instrument ID:	LCMS/MS	Analysis Date:	31-Jan-2024
LC Column ID:	C18	Analysis Time:	20:14:41

LABELLED COMPOUND	LAB FLAG ¹	RRT	QUANT TRANSITION	RATIO	EXPECTED CONC. (ng)	CONC. FOUND (ng)	RECOVERY (%)
13C4-PFBA		1.000	217 > 172		40.0	37.8	94.6
13C5-PFPeA		0.856	268 > 223		20.0	21.0	105
13C5-PFHxA		1.000	318 > 273	11.8	10.0	8.95	89.5
13C4-PFHpA		0.878	367 > 322		10.0	9.92	99.2
13C8-PFOA		1.000	421 > 376		10.0	9.64	96.4
13C9-PFNA		1.000	472 > 427		5.00	5.22	104
13C6-PFDA		0.999	519 > 474		5.00	4.89	97.9
13C7-PFUnA		1.041	570 > 525		5.00	4.60	92.1
13C2-PFDoA		1.076	615 > 570		5.00	4.51	90.2
13C2-PFTeDA		1.172	715 > 670		5.00	3.84	76.8
13C3-PFBS		0.770	302 > 80	2.56	10.0	10.4	104
13C3-PFHxS		1.000	402 > 80	2.39	10.0	9.99	99.7
13C8-PFOS		1.000	507 > 80	2.15	10.1	10.9	108
13C2-4:2 FTS		0.811	329 > 81	1.83	20.2	21.1	104
13C2-6:2 FTS		1.002	429 > 81	2.15	20.0	20.3	101
13C2-8:2 FTS		1.262	529 > 81	3.41	20.0	19.4	96.6
13C8-PFOSA		1.157	506 > 78		10.0	16.9	169
D3-N-MeFOSA		1.340	515 > 219		10.0	9.97	99.7
D5-N-EtFOSA		1.374	531 > 219		10.0	9.14	91.4
D3-MeFOSAA		1.299	573 > 419		20.0	26.2	131
D5-EtFOSAA		1.321	589 > 419		20.0	27.2	136
d7-NMe-FOSE		1.324	623 > 59		100	120	119
d9-NEt-FOSE		1.359	639 > 59		100	107	107

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

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

Signed: _____Aaron Kyle_____

Form 4A
LC MS/MS CALIBRATION VERIFICATION

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

Initial Calibration Date:	01-Mar-2023	VER Data Filename:	FC4L_024 S: 41
Instrument ID:	LCMS/MS	Analysis Date:	31-Jan-2024
LC Column ID:	C18	Analysis Time:	22:44:25

COMPOUND	LAB FLAG ¹	RRT	QUANT TRANSITION	RATIO	EXPECTED CONC. (ng)	CONC. FOUND (ng)	RECOVERY (%)
PFBA		1.003	213 > 169		20.0	21.3	107
PFPeA		1.000	263 > 219		10.0	9.94	99.4
PFHxA		1.000	313 > 269	4.19	5.00	4.90	98.0
PFFHpA		1.000	363 > 319	2.14	5.00	5.27	105
PFOA		1.000	413 > 369	2.06	5.00	5.48	110
PFNA		1.000	463 > 419	2.78	5.00	5.39	108
PFDA		1.000	513 > 469	2.88	5.00	5.33	107
PFUnA		1.001	563 > 519	4.14	5.00	5.19	104
PFDaA		1.000	613 > 569	8.12	4.06	4.41	109
PFTTrDA		0.955	663 > 619	2.90	5.00	5.21	104
PFTTeDA		1.000	713 > 669	2.55	5.00	5.03	101
PFBS		1.000	299 > 80	2.61	5.00	5.03	101
PFPeS		0.868	349 > 80	2.29	5.00	5.54	111
PFHxS		1.001	399 > 80	2.37	5.00	5.02	100
PFFHpS		0.938	449 > 80	2.24	5.00	5.63	113
PFOS		1.000	499 > 80	2.65	5.00	5.05	101
PFNS		1.041	549 > 80	2.33	5.00	4.79	95.8
PFDS		1.079	599 > 80	2.30	5.00	4.98	99.6
PFDoS		1.183	699 > 80	2.22	5.00	4.51	90.1
4:2 FTS		1.000	327 > 307	0.43	20.0	21.0	105
6:2 FTS		1.001	427 > 407	0.39	18.0	18.8	105
8:2 FTS		1.000	527 > 507	0.55	17.0	18.3	108
PFOSA		1.001	498 > 78		5.00	5.63	113
N-MeFOSA		1.000	512 > 219	0.53	5.00	5.70	114
N-EtFOSA		1.001	526 > 219	0.51	14.0	15.5	110
MeFOSAA		1.000	570 > 419	1.90	5.00	4.58	91.6
EtFOSAA		1.001	584 > 419	1.16	5.00	4.99	99.8
N-MeFOSE		1.002	616 > 59		50.0	53.4	107
N-EtFOSE		1.002	630 > 59		50.0	53.7	107
3:3 FTCA			241 > 177	1.71	20.0	18.2	90.9
5:3 FTCA		1.063	341 > 237	1.45	125	139	111
7:3 FTCA		1.401	441 > 317	0.64	125	119	95.3

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

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

Signed: _____Aaron Kyle_____

Form 4B
LC MS/MS CALIBRATION VERIFICATION

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

Initial Calibration Date:	01-Mar-2023	VER Data Filename:	FC4L_024 S: 41
Instrument ID:	LCMS/MS	Analysis Date:	31-Jan-2024
LC Column ID:	C18	Analysis Time:	22:44:25

LABELLED COMPOUND	LAB FLAG ¹	RRT	QUANT TRANSITION	RATIO	EXPECTED CONC. (ng)	CONC. FOUND (ng)	RECOVERY (%)
13C4-PFBA		0.997	217 > 172		40.0	37.7	94.2
13C5-PFPeA		0.856	268 > 223		20.0	20.7	104
13C5-PFHxA		1.000	318 > 273	11.5	10.0	9.20	92.0
13C4-PFHpA		0.878	367 > 322		10.0	10.0	100
13C8-PFOA		0.999	421 > 376		10.0	9.57	95.7
13C9-PFNA		1.000	472 > 427		5.00	5.30	106
13C6-PFDA		1.000	519 > 474		5.00	4.67	93.4
13C7-PFUnA		1.041	570 > 525		5.00	4.62	92.4
13C2-PFDoA		1.078	615 > 570		5.00	4.70	94.0
13C2-PFTeDA		1.174	715 > 670		5.00	4.01	80.2
13C3-PFBS		0.770	302 > 80	2.62	10.0	10.6	106
13C3-PFHxS		1.000	402 > 80	2.48	10.0	10.4	104
13C8-PFOS		1.000	507 > 80	2.23	10.1	10.6	106
13C2-4:2 FTS		0.810	329 > 81	1.72	20.2	20.2	100
13C2-6:2 FTS		1.001	429 > 81	2.07	20.0	21.0	105
13C2-8:2 FTS		1.261	529 > 81	3.25	20.0	19.5	97.3
13C8-PFOSA		1.157	506 > 78		10.0	16.3	163
D3-N-MeFOSA		1.340	515 > 219		10.0	9.86	98.6
D5-N-EtFOSA		1.374	531 > 219		10.0	8.89	88.9
D3-MeFOSAA		1.298	573 > 419		20.0	28.6	143
D5-EtFOSAA		1.320	589 > 419		20.0	28.6	143
d7-NMe-FOSE		1.324	623 > 59		100	116	116
d9-NEt-FOSE		1.359	639 > 59		100	105	105

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

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

Signed: _____Aaron Kyle_____

Accreditation Scope			
SGS AXYS Analytical Services Ltd. file ref.: ACC-103 Rev. 70			
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID

Page 32 of 64

Page 34 of 64

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Accreditation Scope				Serum	Tissue and Tissue Flora	Urine	Water	Water, Non-Potable	AFF
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID						
				CAIA	Alaska DEC ANAB bDd ** ANAB ISO 17025	CAIA	Alaska DEC ANAB bDd ** ANAB ISO 17025	CAIA	Alaska DEC ANAB bDd ** ANAB ISO 17025
PCB congeners	PCB 105/127	SGS AXYS MLA-210	MLA-210		Y		Y		Y
PCB congeners		SGS AXYS MLA-908	MLA-908			Y	Y		Y
PCB congeners		EPA 1628	MLA-908			Y			Y
PCB congeners	PCB 106 2,3,3',4,5-Pentachlorobiphenyl	EPA 8270E	MLA-007				Y		
PCB congeners		SGS AXYS MLA-007	MLA-007		Y			Y	
PCB congeners		EPA 1668	MLA-010			Y	Y		Y
PCB congeners	PCB 107 2,3,3',4',5-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y		Y		Y
PCB congeners		SGS AXYS MLA-210	MLA-210		Y	Y	Y		Y
PCB congeners		SGS AXYS MLA-908	MLA-908		Y	Y	Y		Y
PCB congeners	PCB 108 2,3,3',4,5'-Pentachlorobiphenyl	EPA 1628	MLA-908				Y		
PCB congeners		EPA 8270E	MLA-007		Y			Y	
PCB congeners		SGS AXYS MLA-007	MLA-007			Y			
PCB congeners	PCB 109 2,3,3',4,6-Pentachlorobiphenyl	EPA 1668	MLA-010		Y	Y	Y		Y
PCB congeners		SGS AXYS MLA-010	MLA-010	Y	Y		Y		Y
PCB congeners		SGS AXYS MLA-210	MLA-210		Y	Y	Y		Y
PCB congeners	PCB 110 2,3,3',4',6-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908		Y		Y		Y
PCB congeners		EPA 1628	MLA-908				Y		
PCB congeners		EPA 8270E	MLA-007				Y		
PCB congeners	PCB 111 2,3,3',5,5'-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y		Y		Y
PCB congeners		SGS AXYS MLA-210	MLA-210		Y	Y	Y		Y
PCB congeners		SGS AXYS MLA-908	MLA-908		Y	Y	Y		Y
PCB congeners	PCB 112 2,3,3',5,6-Pentachlorobiphenyl	EPA 1628	MLA-908				Y		
PCB congeners		EPA 8270E	MLA-007				Y		
PCB congeners		SGS AXYS MLA-010	MLA-010	Y	Y		Y		Y
PCB congeners	PCB 113 2,3,3',5,6-Pentachlorobiphenyl	SGS AXYS MLA-007	MLA-007		Y		Y		
PCB congeners		SGS AXYS MLA-210	MLA-210		Y	Y	Y		Y
PCB congeners		SGS AXYS MLA-908	MLA-908		Y		Y		Y
PCB congeners	PCB 114 2,3,4,4',5-Pentachlorobiphenyl	EPA 1628	MLA-908		Y		Y		
PCB congeners		EPA 8270E	MLA-007				Y		
PCB congeners		SGS AXYS MLA-010	MLA-010	Y	Y		Y		Y
PCB congeners	PCB 115 2,3,4,4',6-Pentachlorobiphenyl	SGS AXYS MLA-007	MLA-007		Y		Y		
PCB congeners		SGS AXYS MLA-210	MLA-210		Y	Y	Y		Y
PCB congeners		SGS AXYS MLA-908	MLA-908		Y		Y		Y

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Solids										Tissue and Tissue Flora	Urine	Water	Water, Non-Potable										AFFF
				CAIA	Alaska DEC	ANAB b/d **	ANAB ISO 17025	CAIA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB b/d **	ANAB ISO 17025	CAIA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	Washington DE *	ANAB b/d **	ANAB ISO 17025		
PCB congeners		SGS AXYS MLA-908	MLA-908																									
PCB congeners		EPA 1628	MLA-908																									
PCB congeners	PCB 8 2,4'-Dichlorobiphenyl	EPA 1668	MLA-010																									
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y	Y											Y	Y							
PCB congeners		SGS AXYS MLA-210	MLA-210					Y																				
PCB congeners		SGS AXYS MLA-908	MLA-908					Y																				
PCB congeners	PCB 8/5	EPA 1628	MLA-908																									
PCB congeners		EPA 8270E	MLA-007																									
PCB congeners		SGS AXYS MLA-007	MLA-007					Y																				
PCB congeners	PCB 80 3,3',5,5'-Tetrachlorobiphenyl	EPA 1668	MLA-010							Y	Y																	
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y	Y																			
PCB congeners		SGS AXYS MLA-210	MLA-210					Y	Y																			
PCB congeners		SGS AXYS MLA-908	MLA-908																									
PCB congeners	PCB 81 3,4,4',5-Tetrachlorobiphenyl	EPA 1628	MLA-908																									
PCB congeners		EPA 1668	MLA-010							Y	Y																	
PCB congeners		EPA 8270E	MLA-007																									
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y	Y																			
PCB congeners	PCB 82 2,2',3,3',4-Pentachlorobiphenyl	SGS AXYS MLA-210	MLA-210																									
PCB congeners		SGS AXYS MLA-908	MLA-908																									
PCB congeners		EPA 1628	MLA-908																									
PCB congeners		EPA 1668	MLA-010							Y	Y																	
PCB congeners	PCB 83 2,2',3,3',5-Pentachlorobiphenyl	EPA 8270E	MLA-007																									
PCB congeners		SGS AXYS MLA-010	MLA-010	Y																								
PCB congeners		SGS AXYS MLA-210	MLA-210																									
PCB congeners		SGS AXYS MLA-908	MLA-908																									
PCB congeners	PCB 84 2,2',3,3',6-Pentachlorobiphenyl	EPA 1628	MLA-908																									
PCB congeners		EPA 1668	MLA-010																									
PCB congeners		SGS AXYS MLA-010	MLA-010	Y																								
PCB congeners		SGS AXYS MLA-210	MLA-210																									
PCB congeners	PCB 85 2,2',3,4,4'-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908																									
PCB congeners		EPA 1628	MLA-908																									
PCB congeners		EPA 1668	MLA-010							Y	Y																	
PCB congeners		SGS AXYS MLA-010	MLA-010	Y																								
PCB congeners	PCB 86 2,2',3,4,5-Pentachlorobiphenyl	SGS AXYS MLA-210	MLA-210																									
PCB congeners		SGS AXYS MLA-908	MLA-908																									
PCB congeners		EPA 1628	MLA-908																									
PCB congeners		EPA 1668	MLA-010																									
PCB congeners	PCB 87 2,2',3,4,5'-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y																								
PCB congeners		SGS AXYS MLA-210	MLA-210																									
PCB congeners		SGS AXYS MLA-908	MLA-908																									
PCB congeners		EPA 1628	MLA-908																									
PCB congeners	PCB 88 2,2',3,4,6-Pentachlorobiphenyl	EPA 8270E	MLA-007																									
PCB congeners		SGS AXYS MLA-010	MLA-010	Y																								
PCB congeners		SGS AXYS MLA-210	MLA-210																									
PCB congeners		SGS AXYS MLA-908	MLA-908																									
PCB congeners	PCB 88/121	EPA 1628	MLA-908																									
PCB congeners		EPA 8270E	MLA-007																									
PCB congeners	PCB 89 2,2',3,4,6'-Pentachlorobiphenyl	EPA 1668	MLA-010																									

Page 56 of 64

Accreditation Scope			
SGS AXYS Analytical Services Ltd. file ref.: ACC-103 Rev. 70			
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID
		EPA 8290A SGS AXYS MLA-017 SGS AXYS MLA-217 ATM 16130	MLA-017 MLA-017 MLA-217 MLA-217
	Total PCDD	EPA 1613 EPA 8290A	MLA-017 MLA-017
	Total PCDD/F	EPA 1613 EPA 8290A	MLA-017 MLA-017
	Total PCDF	EPA 1613 EPA 8290A	MLA-017 MLA-017
	Total PeCDD	EPA 1613 EPA 8290A	MLA-017 MLA-017
		SGS AXYS MLA-017 SGS AXYS MLA-217 ATM 16130	MLA-017 MLA-217 MLA-217
	Total PeCDF	EPA 1613 EPA 8290A	MLA-017 MLA-017
		SGS AXYS MLA-017 SGS AXYS MLA-217 ATM 16130	MLA-017 MLA-217 MLA-217
	Total TCDD	EPA 1613 EPA 8290A	MLA-017 MLA-017
		SGS AXYS MLA-017 SGS AXYS MLA-217 ATM 16130	MLA-017 MLA-217 MLA-217
	Total TCDF	EPA 1613 EPA 8290A	MLA-017 MLA-017
		SGS AXYS MLA-017 SGS AXYS MLA-217 ATM 16130	MLA-017 MLA-217 MLA-217
PFAS	"Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only)	DoD QSM Version 5.1 (or new)	MLA-110
PFAS	11-chloroicosafluoro-3-oxaundecane-1-sulfonate (11CI-PF3OUdS)	SGS AXYS MLA-110	MLA-110
PFAS	11-chloroicosafuoro-3-oxaundecane-1-sulfonate (11CI-PF3OUdS)	SGS AXYS MLA-110	MLA-110
PFAS	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-CI-PF3OUdS)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS	4,8-Dioxia-3H-perfluorononanoic acid (ADONA)	EPA 1633 draft	MLA-110
PFAS		SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	4,8-dioxa-3H-perfluorononanoate (ADONA)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	4:2 Fluorotelomersulfonate (4:2 FTS)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS	6:2 Fluorotelomersulfonate (6:2 FTS)	EPA 1633 draft	MLA-110
PFAS		SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS	8:2 Fluorotelomersulfonate (8:2 FTS)	EPA 1633 draft	MLA-110
PFAS		SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS	9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9CI-PF3ONS)	EPA 1633 draft	MLA-110
PFAS	9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9CI-PF3ONS)	SGS AXYS MLA-110	MLA-110
PFAS	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-CI-PF3ONS)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS	Dodecafluoro-3H-4,8-dioxanonoate (NaDONA)	EPA 1633 draft	MLA-110
PFAS		SGS AXYS MLA-110	MLA-110
PFAS	Hexafluoropropylene oxide dimer acid (HFPO-DA)	EPA 1633 draft	MLA-110
PFAS		SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS	Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA)	EPA 1633 draft	MLA-110
PFAS		SGS AXYS MLA-110	MLA-110
PFAS	Hexafluoropropylene oxide dimer acid (HFPO-DA)	SGS AXYS MLA-110	MLA-110
PFAS	N-Ethylperfluorooctane sulfonamide (EtFOSAm)	DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110

Accreditation Scope			
SGS AXYS Analytical Services Ltd. file ref.: ACC-103 Rev. 70			
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID
PFAS	N-Ethylperfluorooctanesulfonamide (N-EtFOSA)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	N-Methylperfluorooctanesulfonamide (N-MeFOSA)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	Perfluorobutanesulfonate (PFBS)	SGS AXYS MLA-060	MLA-060
PFAS		SGS AXYS MLA-041	MLA-041
PFAS		SGS AXYS MLA-043	MLA-043
PFAS		SGS AXYS MLA-042	MLA-042
PFAS		SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	Perfluorobutanoate (PFBA)	SGS AXYS MLA-060	MLA-060
PFAS		SGS AXYS MLA-041	MLA-041
PFAS		SGS AXYS MLA-043	MLA-043
PFAS		SGS AXYS MLA-042	MLA-042
PFAS		SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	Perfluorodecanesulfonate (PFDS)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	Perfluorodecanoate (PFDA)	SGS AXYS MLA-060	MLA-060
PFAS		SGS AXYS MLA-041	MLA-041
PFAS		SGS AXYS MLA-043	MLA-043
PFAS		SGS AXYS MLA-042	MLA-042
PFAS		SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	Perfluorododecanesulfonate (PFDcS)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	Perfluorododecanoate (PFDoA)	SGS AXYS MLA-060	MLA-060
PFAS		SGS AXYS MLA-041	MLA-041
PFAS		SGS AXYS MLA-043	MLA-043
PFAS		SGS AXYS MLA-042	MLA-042
PFAS		SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110
PFAS	Perfluoroheptanesulfonate (PFHpS)	SGS AXYS MLA-110	MLA-110
PFAS		DoD QSM Version 5.3	MLA-110
PFAS		DoD QSM Version 5.4	MLA-110
PFAS		EPA 1633 draft	MLA-110

Accreditation Scope																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
SGS AXYS Analytical Services Ltd. file ref.: ACC-103 Rev. 70																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	Serum	Tissue and Tissue Flora										Urine	Water	Water, Non-Potable										AFF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
					Alaska DEC	ANAB DoD **	ANAB ISO 17025	CALA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB DoD **	ANAB ISO 17025	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CALA	CALA	Alaska DEC	ANAB DoD **		ANAB ISO 17025	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DoD **	ANAB ISO 17025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
PFAS	Perfluorooheptanoate (PFHpA)	SGS AXYS MLA-060	MLA-060																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

[illegible]

Accreditation Scope																																						
SGS AXYS Analytical Services Ltd. file ref.: ACC-103 Rev. 70																																						
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum													Tissue and Tissue Flora	Urine	Water	Water, Non-Potable	AFFF																	
				CALA	Alaska DEC	ANAB DoD **	ANAB ISO 17025	CALA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB DoD **	ANAB ISO 17025	CALA	Florida DOH		Minnesota DOH	New Jersey DEP	Virginia DGS	CALA	CALA	Alaska DEC	ANAB DoD **	ANAB ISO 17025	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *
PPCP	Lincomycin	SGS AXYS MLA-075	MLA-075				Y															Y																
PPCP	Lomefloxacin	SGS AXYS MLA-075	MLA-075				Y		Y														Y															
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA-075	MLA-075				Y		Y																													
PPCP	Mefenamic acid	SGS AXYS MLA																																				

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Accreditation Scope				Serum														Tissue and Tissue Flora		Urine	Water	Water, Non-Potable														AFFF			
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CAIA	Alaska DEC	ANAB DoD **	ANAB ISO 17025	CAIA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB DoD **	ANAB ISO 17025	CAIA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CAIA	CAIA	Alaska DEC	ANAB DoD **	ANAB ISO 17025	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DoD **	ANAB ISO 17025
PPCP		SGS AXYS MLA-075	MLA-075					Y																															
PPCP	Trenbolone	SGS AXYS MLA-075	MLA-075					Y																															
PPCP	Trenbolone acetate	SGS AXYS MLA-075	MLA-075					Y																															
PPCP	Triamterene	SGS AXYS MLA-075	MLA-075					Y																															
PPCP	Triclocarban	EPA 1694	MLA-075								Y																												
PPCP		SGS AXYS MLA-075	MLA-075					Y																															
PPCP	Triclosan	EPA 1694	MLA-075								Y																												
PPCP		SGS AXYS MLA-075	MLA-075					Y																															
PPCP	Trimethoprim	EPA 1694	MLA-075								Y																												
PPCP		SGS AXYS MLA-075	MLA-075					Y																															
PPCP	Tylosin	EPA 1694	MLA-075								Y																												
PPCP		SGS AXYS MLA-075	MLA-075					Y																															
PPCP	Valsartan	SGS AXYS MLA-075	MLA-075					Y																															
PPCP	Verapamil	SGS AXYS MLA-075	MLA-075					Y																															
PPCP	Virginiamycin	EPA 1694	MLA-075								Y																												
PPCP		SGS AXYS MLA-075	MLA-075					Y																															
PPCP	Warfarin	EPA 1694	MLA-075								Y																												
PPCP		SGS AXYS MLA-075	MLA-075					Y																															
TOP	Perfluorobutanesulfonate (PFBS)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluorobutanoate (PFBA)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluorodecanesulfonate (PFDS)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluorodecanoate (PFDA)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluorododecanesulfonate (PFDoS)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluorododecanoate (PFDoA)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluoroheptanesulfonate (PFHpS)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluoroheptanoate (PFHpA)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluorohexanesulfonate (PFHxS)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluorohexanoate (PFHxA)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluoronanesulfonate (PFNS)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluorononanoate (PFNA)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluorooctanesulfonate (PFOS)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluorooctanoate (PFOA)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluoropentanesulfonate (PFPeS)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluoropentanoate (PFPeA)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluorotetradecanoate (PFTeDA)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluorotridecanoate (PFTriDA)	SGS AXYS MLA-111	MLA-111					Y																															
TOP	Perfluoroundecanoate (PFUnA)	SGS AXYS MLA-111	MLA-111					Y																															
Note *	Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.																																						
Note **	PFAS by LC-MS/MS compliant with US DoD QSM 5.3 table B-15 and US DoD QSM 5.4 table B-24																																						

Legend

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

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Solids	Tissue and Tissue Flora	Urine	Water	Water, Non-Potable	AFFF
				CALA	Alaska DEC ANAB DoD ** ANAB ISO 17025 CALA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE	ANAB DoD ** ANAB ISO 17025 CALA Florida DOH Minnesota DOH New Jersey DEP Virginia DGS	CALA	CALA	Alaska DEC ANAB DoD ** ANAB ISO 17025 California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Pennsylvania DEP Virginia DGS Washington DE *	ANAB DoD ** ANAB ISO 17025

ANAB DoD ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 and 5.4 Standard)



CALA Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2017 Standard)

