



2045 Mills Road West

TEL: (250) 655-5800

Sidney, BC, Canada V8L5X2

TOLL-FREE: 1-888-373-0881

SGS AXYS Client No.: 4853

Client Address: Eastern Reasearch Group, Inc.
110 Hartwell Ave
Lexington, MA, US, 02421

The SGS AXYS contact for these data is Sean Campbell.

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"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: WG77105	Date: 28-Jul-2021
Analysis Type: Per- and Polyfluoroalkyl Substances (PFAS)	Matrix Type: Tissue
BATCH MAKEUP	
Contract: 4853 Samples: L34988-35 052521-D-CP-1 L34988-36 052521-E-LMB-1 L34988-37 052521-E-CP-1 L34988-38 052521-E-CP-2 L34988-39 052521-E-CP-3 L34988-40 052521-E-YP-1 L34988-41 052521-E-YP-2 L34988-42 052521-E-YP-3 L34988-43 052521-E-WS-1 L34988-44 052521-E-WS-2 L34988-45 052521-E-SMB-1 L34988-46 052521-E-SMB-2 L34988-47 052521-E-SMB-3 L34988-48 052521-E-P-1 L34988-49 052521-E-P-2 L34988-50 052521-E-P-3 L34988-51 052521-E-WP-1	Blank: WG77105-101 Reference or Spike: WG77105-102 Duplicate: WG77105-103
Comments: 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 (FC1L_319 S:15), the surrogate compounds D3-MeFOSAA and D9-N-EtFOSE were observed outside the method control limit. As the target analytes MeFOSAA and N-EtFOSE were observed within method specifications, this is deemed not to have any effect on the data. 5. In the continuing calibration verification (FC1L_319 S:15), the native analyte ADONA was observed outside the method control limit. As this analyte was not observed in the field samples, this is deemed not to have any effect on the data. 6. In the OPR (SGS AXYS ID: WG77105-102) N-MeFOSE, ADONA, 9CI-PF3ONS, 11CI-PF3OUDS and NFDHA were observed outside the method control limits and are flagged with an 'N'. Data for NFDHA may be similarly affected. N-MeFOSE, ADONA, 9CI-PF3ONS, and 11CI-PF3OUDS are not considered to be affected, as these analytes are not detected in the field samples and are not impacted by any potential high bias. 7. 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. 8. However, there were some instances where the percent recovery for a surrogate fell below 10% and was less than 50% of the method lower control limits, but above 1%. Where this was observed, the surrogate was flagged with a 'V' and the native analyte, with the surrogate being its exact labeled analogue, was reported in a 'concentration is estimated' capacity and was flagged with an 'H'.	

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February 2017

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



CHAIN OF CUSTODY

2045 Mills Road West TEL: (250) 655-5800
 Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

AXYS CLIENT #: 4853

REPORT TO:				INVOICE TO:		ANALYSIS REQUESTED				
Company Midwest Biodiversity Institute (MBI)				Company Eastern Research Group, Inc.		PFAS (MLA-110)	PCBs (MLA-007)	OC Pesticides (MLA-007)		
Address 4673 Northwest Parkway				Address 110 Hartwell Ave.						
Hilliard, OH 43026				Lexington, MA 02421						
Contact				Contact Naida Gavrelis						
Phone				Phone 781-674-7318						
FAX				FAX 781-674-2851						
E-mail				E-mail naida.gavrelis@erg.com						
Project Name/Number: ERG 0394.00.013.004				Sampler's Name:						
				Signature:						
Client Sample Identification	Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)					
052421-A-B-1	Fish	05-24-21	08:00	LDPE Bag	L34988-1	x	x	x		
052421-A-B-2	Fish	05-24-21			-2	X	X	X		
052421-A-B-3	Fish	05-24-21			-3	X	X	X		
052421-A-B-4	Fish	05-24-21			-4	X	X	X		
052421-A-B-5	Fish	05-24-21			-5	X	X	X		
052421-A-B-6	Fish	05-24-21			-6	X	X	X		
052421-A-B-7	Fish	05-24-21			-7	X	X	X		
052421-A-B-8	Fish	05-24-21			-8	X	X	X		
052421-A-yp-1	Fish	05-24-21			-9	X	X	X		
052421-A-Blank	Foil	05-24-21			L34993-1	X	X	X		
Relinquished by (Signature)			Date	Time	Received by (Signature)		Courier		Waybill No.	
Paul M. Delord			05-26-2021	14:30						
Relinquished by (Signature)			Date	Time	Received by (Signature)		Sample Receipt			
Remarks						Cooler				
						Temp °C				
						Custody Seal #				
						Seal Intact Y/N				
						Sample Tags Y/N				



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Address 4673 Northwest Parkway			Address 110 Hartwell Ave.							
Hilliard, OH 43026			Lexington, MA 02421							
Contact			Contact Naida Gavrelis							
Phone			Phone 781-674-7318							
FAX			FAX 781-674-2851							
E-mail			E-mail naida.gavrelis@erg.com							
Project Name/Number: ERG 0394.00.013.004			Sampler's Name:							
			Signature:							
Client Sample Identification	Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)					
052421-B-B-1	Fish	05-24-21	12:00	LDPE Bag	L34988-10	x	x	x		
052421-B-B-2	Fish	05-24-21	↓	↓	-11	X	X	X		
052421-B-B-3	Fish	05-24-21	↓	↓	-12	X	X	X		
052421-B-B-4	Fish	05-24-21	↓	↓	-13	X	X	X		
052421-B-Blank	Foil	05-24-21			L34933-2	X	X	X		
Relinquished by (Signature)		Date	Time	Received by (Signature)		Courier		Waybill No.		
<i>Paul M. Kelly</i>		05-26-2021	14:30							
Relinquished by (Signature)		Date	Time	Received by (Signature)		Sample Receipt				
Remarks						Cooler				
						Temp °C				
						Custody Seal #				
						Seal Intact Y / N				
						Sample Tags Y / N				



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Company Midwest Biodiversity Institute (MBI)				Company Eastern Research Group, Inc.				PFAS (MLA-110)	PCBs (MLA-007)	OC Pesticides (MLA-007)		
Address 4673 Northwest Parkway				Address 110 Hartwell Ave.								
Hilliard, OH 43026				Lexington, MA 02421								
Contact				Contact Naida Gavrelis								
Phone				Phone 781-674-7318								
FAX				FAX 781-674-2851								
E-mail				E-mail naida.gavrelis@erg.com								
Project Name/Number: ERG 0394.00.013.004				Sampler's Name:								
				Signature:								
Client Sample Identification	Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)							
052421-C-SMB-1	Fish	05-24-21	16:15	LDPE Bag	L34988-14	x	x	x				
052421-C-YB-1	Fish	05-24-21	16:15		-15	x	x	x				
052621-C-LMB-1	Fish	05-26-21	07:00		-16	x	x	x				
052621-C-LMB-2	Fish	05-26-21	07:00		-17	x	x	x				
052621-C-SMB-1	Fish	05-26-21	07:00		-18	x	x	x				
052421-C-Blank	Foil	05-24-21	16:15		L34933-3	x	x	x				
052621-C-Blank	Foil	05-26-21	07:00		-4	x	x	x				
Relinquished by (Signature) Date Time				Received by (Signature)				Courier		Waybill No.		
Paul M. DeRuy 05-26-2021 14:30												
Relinquished by (Signature) Date Time				Received by (Signature)				Sample Receipt				
Remarks												
								Cooler				
								Temp °C				
								Custody Seal #				
								Seal Intact Y / N				
								Sample Tags Y / N				



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

AXYS CLIENT #: 4853

REPORT TO:			INVOICE TO:			ANALYSIS REQUESTED				
Company	Midwest Biodiversity Institute (MBI)		Company	Eastern Research Group, Inc.		PFAS (MLA-110)	PCBs (MLA-007)	OC Pesticides (MLA-007)		
Address	4673 Northwest Parkway Hilliard, OH 43026		Address	110 Hartwell Ave. Lexington, MA 02421						
Contact			Contact	Naida Gavrelis						
Phone			Phone	781-674-7318						
FAX			FAX	781-674-2851						
E-mail			E-mail	naida.gavrelis@erg.com						
Project Name/Number: ERG 0394.00.013.004			Sampler's Name:							
Signature:										
Client Sample Identification	Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)					
052521-D-LMB-1	Fish	05-25-21	07:50	LDPE Bag	L34988-19	x	x	x		
052521-D-LMB-2	Fish				-20	X	X	X		
052521-D-LMB-3	Fish				-21	X	X	X		
052521-D-YP-1	Fish				-22	X	X	X		
052521-D-YP-2	Fish				-23	X	X	X		
052521-D-YP-3	Fish				-24	X	X	X		
052521-D-WP-1	Fish				-25	X	X	X		
052521-D-WP-2	Fish				-26	X	X	X		
052521-D-WP-3	Fish				-27	X	X	X		
052521-D-WP-4	Fish				-28	X	X	X		
Relinquished by (Signature)		Date	Time	Received by (Signature)		Courier		Waybill No.		
<i>Paul M. DeJoy</i>		05-26-21	14:30							
Relinquished by (Signature)		Date	Time	Received by (Signature)		Sample Receipt				
Remarks						Cooler				
						Temp °C				
						Custody Seal #				
						Seal Intact Y / N				
						Sample Tags Y / N				



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2045 Mills Road West TEL: (250) 655-5800
 Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

AXYS CLIENT #: 4853

REPORT TO:			INVOICE TO:			ANALYSIS REQUESTED				
Company	Midwest Biodiversity Institute (MBI)		Company	Eastern Research Group, Inc.		PFAS (MLA-110)	PCBs (MLA-007)	OC Pesticides (MLA-007)		
Address	4673 Northwest Parkway Hilliard, OH 43026		Address	110 Hartwell Ave. Lexington, MA 02421						
Contact			Contact	Naida Gavrelis						
Phone			Phone	781-674-7318						
FAX			FAX	781-674-2851						
E-mail			E-mail	naida.gavrelis@erg.com						
Project Name/Number: ERG 0394.00.013.004			Sampler's Name:							
Signature:										
Client Sample Identification	Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)					
052521-D-B-1	Fish	05-25-21	07:50	LDPE Bag	L34988-29	x	x	x		
052521-D-B-2					-30	X	X	X		
052521-D-B-3					-31	X	X	X		
052521-D-P-1					-32	X	X	X		
052521-D-P-2					-33	X	X	X		
052521-D-P-3					-34	X	X	X		
052521-D-CP-1					-35	X	X	X		
052521-D-Blank	Feil				L34993-5	X	X	X		
Relinquished by (Signature) <i>Paul M. D. [Signature]</i> Date 05-26-21 Time 14:30						Received by (Signature)		Courier		Waybill No.
Relinquished by (Signature)						Received by (Signature)		Sample Receipt		
Remarks						Date		Time		
						Temp °C		Cooler		
						Custody Seal #				
						Seal Intact Y / N				
						Sample Tags Y / N				



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AXYS CLIENT #: 4863

REPORT TO:				INVOICE TO:				ANALYSIS REQUESTED				
Company Midwest Biodiversity Institute (MBI)				Company Eastern Research Group, Inc.				PFAS (MLA-110)	PCBs (MLA-007)	OC Pesticides (MLA-007)		
Address 4673 Northwest Parkway				Address 110 Hartwell Ave.								
Hilliard, OH 43026				Lexington, MA 02421								
Contact				Contact Naida Gavrelis								
Phone				Phone 781-674-7318								
FAX				FAX 781-674-2851								
E-mail				E-mail naida.gavrelis@erg.com								
Project Name/Number: ERG 0394.00.013.004				Sampler's Name:								
				Signature:								
Client Sample Identification		Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)						
052521-E-LMB-1		Fish	05-25-21	13:20	LDPE Bag	L 34988-36		x	x	x		
052521-E-CP-1						-37		x	x	x		
052521-E-CP-2						-38		x	x	x		
052521-E-CP-3						-39		x	x	x		
052521-E-YP-1						-40		x	x	x		
052521-E-YP-2						-41		x	x	x		
052521-E-YP-3						-42		x	x	x		
052521-E-WS-1						-43		x	x	x		
052521-E-WS-2						-44		x	x	x		
052521-E-SMB-1						-45		x	x	x		
Relinquished by (Signature)			Date	Time	Received by (Signature)			Courier		Waybill No.		
Paul M. Porey			05-26-21	14:30								
Relinquished by (Signature)			Date	Time	Received by (Signature)			Sample Receipt				
Remarks							Cooler					
							Temp °C					
							Custody Seal #					
							Seal Intact Y / N					
							Sample Tags Y / N					



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2045 Mills Road West TEL: (250) 655-5800
 Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

AXYS CLIENT #: 4853

REPORT TO:			INVOICE TO:			ANALYSIS REQUESTED				
Company Midwest Biodiversity Institute (MBI)			Company Eastern Research Group, Inc.			PFAS (MLA-110)	PCBs (MLA-007)	OC Pesticides (MLA-007)		
Address 4673 Northwest Parkway			Address 110 Hartwell Ave.							
Hilliard, OH 43026			Lexington, MA 02421							
Contact			Contact Naida Gavrelis							
Phone			Phone 781-674-7318							
FAX			FAX 781-674-2851							
E-mail			E-mail naida.gavrelis@erg.com							
Project Name/Number: ERG 0394.00.013.004			Sampler's Name:							
Signature:										
Client Sample Identification	Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)					
052521-E-SMB-2	Fish	05-25-21	13:20	LDPE Bag	L34988-46	x	x	x		
052521-E-SMB-3					-47	x	x	x		
052521-E-P-1					-48	x	x	x		
052521-E-P-2					-49	x	x	x		
052521-E-P-3					-50	x	x	x		
052521-E-WP-1					-51	x	x	x		
052521-E-Blank	Foil				L34993-6	x	x	x		
Relinquished by (Signature): Paul M. DePaol			Date 05-26-21			Time 14:30			Received by (Signature):	
Relinquished by (Signature):			Date			Time			Received by (Signature):	
Remarks			Date			Time			Sample Receipt	
									Cooler	
						Temp °C				
						Custody Seal #				
						Seal Intact Y / N				
						Sample Tags Y / N				



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2045 Mills Road West TEL: (250) 655-5800
 Sidney, British Columbia, Canada V8L 5X2 FAX: (250) 655-5811

AXYS CLIENT #: 4853

REPORT TO:			INVOICE TO:			ANALYSIS REQUESTED				
Company	Midwest Biodiversity Institute (MBI)		Company	Eastern Research Group, Inc.		PFAS (MLA-110)	PCBs (MLA-007)	OC Pesticides (MLA-007)		
Address	4673 Northwest Parkway Hilliard, OH 43026		Address	110 Hartwell Ave. Lexington, MA 02421						
Contact			Contact	Naida Gavrelis						
Phone			Phone	781-674-7318						
FAX			FAX	781-674-2851						
E-mail			E-mail	naida.gavrelis@erg.com						
Project Name/Number: ERG 0394.00.013.004			Sampler's Name:							
Signature:										
Client Sample Identification	Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)					
052421-Lake A	Fish	05/24/21	08:00	LDPE Bag		x	x	x		
Relinquished by (Signature)	Date	Time	Received by (Signature)			Courier	Waybill No.			
<i>Paul M. Perry</i>	05/26/2021	14:30	<i>[Signature]</i>							
Relinquished by (Signature)	Date	Time	Received by (Signature)			Sample Receipt				
Remarks						Cooler				
						Temp °C				
						Custody Seal #				
						Seal Intact Y / N				
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Company	Midwest Biodiversity Institute (MBI)		Company	Eastern Research Group, Inc.		PFAS (MLA-110)	PCBs (MLA-007)	OC Pesticides (MLA-007)		
Address	4673 Northwest Parkway Hilliard, OH 43026		Address	110 Hartwell Ave. Lexington, MA 02421						
Contact			Contact	Naida Gavrelis						
Phone			Phone	781-674-7318						
FAX			FAX	781-674-2851						
E-mail			E-mail	naida.gavrelis@erg.com						
Project Name/Number: ERG 0394.00.013.004			Sampler's Name:							
			Signature:							
Client Sample Identification	Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)					
052421-Lake B	Fish	05/24/21	12:00	LDPE Bag		x	x	x		
Relinquished by (Signature)	Date	Time	Received by (Signature)			Courier		Waybill No.		
<i>Paul M. DeFoe</i>	05/26/2021	14:30	Date <i>28-May-2021</i> Time <i>8:55</i>							
Relinquished by (Signature)	Date	Time	Received by (Signature)			Sample Receipt				
			Date			Temp °C				
Remarks						Cooler				
						Custody Seal #				
						Seal Intact Y / N				
						Sample Tags Y / N				



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E-mail			E-mail naida.gavrelis@erg.com							
Project Name/Number: ERG 0394.00.013.004			Sampler's Name:							
Signature:										
Client Sample Identification	Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)					
052421-Lake C	Fish	05/24/21	16:15	LDPE Bag		x	x	x		
052621-Lake C	Fish	05/26/21	07:00	LDPE Bag		x	x	x		
Relinquished by (Signature)		Date	Time	Received by (Signature)		Courier		Waybill No.		
Paul M. [Signature]		05/26/21	14:30	[Signature]						
Relinquished by (Signature)		Date	Time	Received by (Signature)		Sample Receipt				
Remarks						Cooler				
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						Custody Seal #				
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E-mail			E-mail naida.gavrelis@erg.com							
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052521 - Lake D	Fish	05/25/21	07:50	LDPE Bag		x	x	x		
Relinquished by (Signature)	Date	Time	Received by (Signature)			Courier		Waybill No.		
Paul M. Davis	05/26/2021	14:30	Date 27-May-2021 Time 14:20							
Relinquished by (Signature)	Date	Time	Received by (Signature)			Sample Receipt				
			Date			Cooler				
Remarks						Temp °C				
						Custody Seal #				
						Seal Intact Y / N				
						Sample Tags Y / N				



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Hilliard, OH 43026			Lexington, MA 02421															
Contact			Contact Naida Gavrelis															
Phone			Phone 781-674-7318															
FAX			FAX 781-674-2851															
E-mail			E-mail naida.gavrelis@erg.com															
Project Name/Number: ERG 0394.00.013.004			Sampler's Name:															
			Signature:															
Client Sample Identification	Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)													
052521 - Lake E	Fish	05/25/21	13:20	LDPE Bag		x	x	x										
Relinquished by (Signature)	Date	Time	Received by (Signature)			Courier		Waybill No.										
<i>Paul M. Kelly</i>	05/26/2021	14:30	<i>[Signature]</i>															
Relinquished by (Signature)	Date	Time	Received by (Signature)			Sample Receipt												
			Date 27-May-2021 Time 14:20															
Remarks						<table border="1"> <tr> <td>Temp °C</td> <td>Cooler</td> </tr> <tr> <td>Custody Seal #</td> <td></td> </tr> <tr> <td>Seal Intact Y / N</td> <td></td> </tr> <tr> <td>Sample Tags Y / N</td> <td></td> </tr> </table>					Temp °C	Cooler	Custody Seal #		Seal Intact Y / N		Sample Tags Y / N	
Temp °C	Cooler																	
Custody Seal #																		
Seal Intact Y / N																		
Sample Tags Y / N																		

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-D-CP-1

Sample Collection:

25-May-2021 07:50

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-35 i

Matrix: TISSUE

Sample Size: 2.04 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 20:48:17

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 38

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.392 (Q)		
PFPeA	U		0.196 (Q)		
PFHxA	U		0.0980 (Q)		
PFHpA	U		0.0980 (Q)		
PFOA	U		0.0980 (Q)		
PFNA		1.78	0.0980 (Q)	3.02	
PFDA	J	0.236	0.0980 (Q)	3.27	1.000
PFUnA	B J	0.139	0.0980 (Q)	3.29	1.000
PFDoA	J	0.251	0.0980 (Q)	8.64	1.000
PFTTrDA	B	0.414	0.0980 (Q)	2.78	0.961
PFTeDA	J	0.235	0.0980 (Q)	3.12	0.999
PFBS	U		0.0980 (Q)		
PFPeS	U		0.0985 (Q)		
PFHxS		0.827	0.0980 (Q)	2.35	
PFHpS	J	0.205	0.0980 (Q)	2.51	0.919
PFOS		86.1	0.0980 (Q)	2.50	
PFNS	U		0.0980 (Q)		
PFDS	U		0.0980 (Q)		
PFDoS	U		0.0980 (Q)		
4:2 FTS	U		0.392 (Q)		
6:2 FTS	U		0.353 (Q)		
8:2 FTS	U		0.392 (Q)		
PFOSA	B	0.600	0.0980 (Q)		
N-MeFOSA	U		0.113 (Q)		
N-EtFOSA	U		0.245 (Q)		
MeFOSAA	U		0.0980 (Q)		
EtFOSAA	U		0.0980 (Q)		
N-MeFOSE	U		0.980 (Q)		
N-EtFOSE	U		0.733 (Q)		
HFPO-DA	U		0.373 (Q)		
ADONA	U		0.392 (Q)		
9CI-PF3ONS	U		0.393 (Q)		
11CI-PF3OUdS	U		0.393 (Q)		
3:3 FTCA	U		0.392 (Q)		
5:3 FTCA	U		2.45 (Q)		
7:3 FTCA	J	9.09	2.45 (Q)	0.73	1.354
PFEESA	U		0.0980 (Q)		
PFMPA	U		0.196 (Q)		
PFMBA	U		0.0980 (Q)		
NFDHA	U		0.196 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; 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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFA's_L34988-35_Form1A_FC1L_319S38_SJ2933561.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-D-CP-1

Sample Collection:

25-May-2021 07:50

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-35 i

Matrix: TISSUE

Sample Size: 2.04 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 20:48:17

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 38

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	35.5	88.6		0.995
13C5-PFPeA		20.0	20.2	101		0.862
13C5-PFHxA		10.0	8.71	87.1	22.7	1.000
13C4-PFHpA		10.0	7.03	70.3		0.896
13C8-PFOA		10.0	8.24	82.4		1.000
13C9-PFNA		5.00	4.59	91.9		1.000
13C6-PFDA		5.00	4.67	93.4		1.000
13C7-PFUnA		5.00	4.53	90.7		1.049
13C2-PFDoA		5.00	3.39	67.8		1.085
13C2-PFTeDA	V	5.00	0.906	18.1		1.166
13C3-PFBS		10.0	8.35	83.3	2.63	0.801
13C3-PFHxS		10.0	9.43	94.1	2.28	1.000
13C8-PFOS		10.1	9.63	95.7	2.07	1.000
13C2-4:2 FTS		20.2	17.3	85.6	1.77	0.835
13C2-6:2 FTS		20.0	15.6	78.1	1.73	1.001
13C2-8:2 FTS		20.0	15.3	76.5	3.49	1.268
13C8-PFOSA		10.0	13.9	139		1.160
D3-N-MeFOSA		10.0	2.41	24.1		1.345
D5-N-EtFOSA		10.0	2.48	24.8		1.382
D3-MeFOSAA	V	20.0	9.75	48.7		1.315
D5-EtFOSAA		20.0	13.7	68.4		1.342
d7-NMe-FOSE		100	27.7	27.7		1.329
d9-NEt-FOSE		100	32.9	32.9		1.367
13C3-HFPO-DA		40.0	33.6	84.0	2.92	1.032

(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: _____ Jordan Berends _____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-LMB-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-36 i2

Matrix: TISSUE

Sample Size: 2.04 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 17:05:59

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 21

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.392 (Q)		
PFPeA	U		0.196 (Q)		
PFHxA	U		0.0980 (Q)		
PFHpA	U		0.0980 (Q)		
PFOA	U		0.0980 (Q)		
PFNA	U		0.0980 (Q)		
PFDA	U		0.0980 (Q)		
PFUnA	B J	0.348	0.0980 (Q)	4.78	1.000
PFDaA	J	0.227	0.0980 (Q)	7.27	1.000
PFTTrDA	B J	0.352	0.0980 (Q)	3.38	0.962
PFTeDA	J	0.176	0.0980 (Q)	2.90	1.000
PFBS	U		0.0980 (Q)		
PFPeS	U		0.0985 (Q)		
PFHxS	U		0.0980 (Q)		
PFHpS	U		0.0980 (Q)		
PFOS		0.908	0.0980 (Q)	2.53	
PFNS	U		0.0980 (Q)		
PFDS	U		0.0980 (Q)		
PFDoS	U		0.0980 (Q)		
4:2 FTS	U		0.392 (Q)		
6:2 FTS	U		0.353 (Q)		
8:2 FTS	U		0.392 (Q)		
PFOSA	U		0.0980 (Q)		
N-MeFOSA	U		0.113 (Q)		
N-EtFOSA	U		0.245 (Q)		
MeFOSAA	U		0.0980 (Q)		
EtFOSAA	U		0.0980 (Q)		
N-MeFOSE	U		0.980 (Q)		
N-EtFOSE	U		0.733 (Q)		
HFPO-DA	U		0.373 (Q)		
ADONA	U		0.392 (Q)		
9CI-PF3ONS	U		0.393 (Q)		
11CI-PF3OUdS	U		0.393 (Q)		
3:3 FTCA	U		0.392 (Q)		
5:3 FTCA	U		2.45 (Q)		
7:3 FTCA	U		2.45 (Q)		
PFEESA	U		0.0980 (Q)		
PFMPA	U		0.196 (Q)		
PFMBA	U		0.0980 (Q)		
NFDHA	U		0.196 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; 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: _____Jordan Berends_____

For Axys Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFAS_L34988-36_Form1A_FC1L_319S21_SJ2933544.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-LMB-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-36 i2

Matrix: TISSUE

Sample Size: 2.04 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 17:05:59

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 21

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	RATIO	RRT
13C4-PFBA	V	40.0	37.5	93.7	23.3	0.995
13C5-PFPeA		20.0	19.3	96.6		0.861
13C5-PFHxA		10.0	8.59	85.9		1.000
13C4-PFHpA		10.0	8.90	89.0		0.895
13C8-PFOA		10.0	8.87	88.7		0.999
13C9-PFNA		5.00	4.63	92.7	2.75	1.000
13C6-PFDA		5.00	4.62	92.3		1.000
13C7-PFUnA		5.00	4.80	95.9		1.049
13C2-PFDoA		5.00	3.78	75.7		1.085
13C2-PFTeDA		5.00	0.847	16.9		1.166
13C3-PFBS		10.0	9.81	97.8	2.23	0.798
13C3-PFHxS		10.0	9.38	93.6		0.999
13C8-PFOS		10.1	10.5	104		1.000
13C2-4:2 FTS		20.2	23.2	115		0.836
13C2-6:2 FTS		20.0	23.9	120		1.002
13C2-8:2 FTS		20.0	17.7	88.5	3.34	1.270
13C8-PFOSA		10.0	14.1	141		1.160
D3-N-MeFOSA		10.0	2.01	20.1		1.345
D5-N-EtFOSA		10.0	1.91	19.1		1.382
D3-MeFOSAA		20.0	15.9	79.3		1.318
D5-EtFOSAA		20.0	20.1	100		1.344
d7-NMe-FOSE		100	17.1	17.1	2.83	1.329
d9-NEt-FOSE		100	17.8	17.8		1.367
13C3-HFPO-DA		40.0	28.5	71.3		1.032

(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: _____Jordan Berends_____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-CP-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-37 i

Matrix: TISSUE

Sample Size: 2.04 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 17:18:56

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 22

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.392 (Q)		
PFPeA	U		0.196 (Q)		
PFHxA	U		0.0980 (Q)		
PFHpA	U		0.0980 (Q)		
PFOA	U		0.0980 (Q)		
PFNA	U		0.0980 (Q)		
PFDA	U		0.0980 (Q)		
PFUnA	B J	0.182	0.0980 (Q)	5.51	1.000
PFDaA	U		0.0980 (Q)		
PFTTrDA	B J	0.140	0.0980 (Q)	3.17	0.961
PFTeDA	U		0.150 (S)		
PFBS	U		0.0980 (Q)		
PFPeS	U		0.0985 (Q)		
PFHxS	U		0.0980 (Q)		
PFHpS	U		0.0980 (Q)		
PFOS		0.443	0.0980 (Q)	2.50	
PFNS	U		0.0980 (Q)		
PFDS	U		0.0980 (Q)		
PFDoS	U		0.0980 (Q)		
4:2 FTS	U		0.392 (Q)		
6:2 FTS	U		0.353 (Q)		
8:2 FTS	U		0.392 (Q)		
PFOSA	U		0.0980 (Q)		
N-MeFOSA	U		0.113 (Q)		
N-EtFOSA	U		0.245 (Q)		
MeFOSAA	U		0.0980 (Q)		
EtFOSAA	U		0.0980 (Q)		
N-MeFOSE	U		0.980 (Q)		
N-EtFOSE	U		0.733 (Q)		
HFPO-DA	U		0.373 (Q)		
ADONA	U		0.392 (Q)		
9CI-PF3ONS	U		0.393 (Q)		
11CI-PF3OUdS	U		0.393 (Q)		
3:3 FTCA	U		0.392 (Q)		
5:3 FTCA	U		2.45 (Q)		
7:3 FTCA	U		2.45 (Q)		
PFEESA	U		0.0980 (Q)		
PFMPA	U		0.196 (Q)		
PFMBA	U		0.0980 (Q)		
NFDHA	U		0.196 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; 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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFAS_L34988-37_Form1A_FC1L_319S22_SJ2933545.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-CP-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-37 i

Matrix: TISSUE

Sample Size: 2.04 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 17:18:56

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 22

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	38.1	95.4	27.6	1.000
13C5-PFPeA		20.0	19.0	95.1		0.861
13C5-PFHxA		10.0	9.98	99.8		1.000
13C4-PFHpA		10.0	10.3	103		0.894
13C8-PFOA		10.0	8.93	89.3		0.999
13C9-PFNA		5.00	5.14	103	2.71	1.001
13C6-PFDA		5.00	4.76	95.1		1.000
13C7-PFUnA		5.00	4.74	94.8		1.049
13C2-PFDoA		5.00	3.76	75.1		1.085
13C2-PFTeDA		5.00	0.841	16.8		1.166
13C3-PFBS		10.0	8.95	89.2	2.23	0.799
13C3-PFHxS		10.0	9.89	98.8		0.999
13C8-PFOS		10.1	11.0	110		1.000
13C2-4:2 FTS		20.2	24.0	119		0.836
13C2-6:2 FTS		20.0	22.2	111		1.002
13C2-8:2 FTS		20.0	17.1	85.2	3.17	1.270
13C8-PFOSA		10.0	14.1	141		1.160
D3-N-MeFOSA		10.0	2.66	26.6		1.346
D5-N-EtFOSA		10.0	2.61	26.1		1.382
D3-MeFOSAA		20.0	14.9	74.4		1.318
D5-EtFOSAA		20.0	19.4	97.0	3.59	1.344
d7-NMe-FOSE		100	12.0	12.0		1.330
d9-NEt-FOSE		100	19.6	19.6		1.367
13C3-HFPO-DA		40.0	34.7	86.7		1.032

(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: _____Jordan Berends_____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-CP-2

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-38 i

Matrix: TISSUE

Sample Size: 2.06 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 17:32:02

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 23

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.388 (Q)		
PFPeA	U		0.194 (Q)		
PFHxA	U		0.0971 (Q)		
PFHpA	U		0.0971 (Q)		
PFOA	U		0.0971 (Q)		
PFNA	U		0.0971 (Q)		
PFDA	U		0.0971 (Q)		
PFUnA	U		0.0971 (Q)		
PFDaA	U		0.0971 (Q)		
PFTTrDA	B J	0.098	0.0971 (Q)	3.39	0.962
PFTeDA	U		0.0971 (Q)		
PFBS	U		0.0971 (Q)		
PFPeS	U		0.0976 (Q)		
PFHxS	U		0.0971 (Q)		
PFHpS	U		0.0971 (Q)		
PFOS	J	0.369	0.0971 (Q)	2.31	
PFNS	U		0.0971 (Q)		
PFDS	U		0.0971 (Q)		
PFDoS	U		0.0971 (Q)		
4:2 FTS	U		0.388 (Q)		
6:2 FTS	U		0.350 (Q)		
8:2 FTS	U		0.388 (Q)		
PFOSA	U		0.0971 (Q)		
N-MeFOSA	U		0.112 (Q)		
N-EtFOSA	U		0.243 (Q)		
MeFOSAA	U		0.0971 (Q)		
EtFOSAA	U		0.0971 (Q)		
N-MeFOSE	U H		0.971 (Q)		
N-EtFOSE	U		0.726 (Q)		
HFPO-DA	U		0.369 (Q)		
ADONA	U		0.388 (Q)		
9CI-PF3ONS	U		0.389 (Q)		
11CI-PF3OUdS	U		0.389 (Q)		
3:3 FTCA	U		0.388 (Q)		
5:3 FTCA	U		2.43 (Q)		
7:3 FTCA	U		2.43 (Q)		
PFEESA	U		0.0971 (Q)		
PFMPA	U		0.194 (Q)		
PFMBA	U		0.0971 (Q)		
NFDHA	U		0.194 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; J = concentration less than limit of quantification; H = concentration is estimated.

(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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFA_S_L34988-38_Form1A_FC1L_319S23_SJ2933546.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-CP-2

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-38 i

Matrix: TISSUE

Sample Size: 2.06 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 17:32:02

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 23

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	39.8	99.6	25.5	0.995
13C5-PFPeA		20.0	19.7	98.7		0.863
13C5-PFHxA		10.0	8.13	81.3		1.000
13C4-PFHpA		10.0	11.0	110		0.895
13C8-PFOA		10.0	8.99	89.9		1.000
13C9-PFNA		5.00	4.89	97.8	3.05	1.000
13C6-PFDA		5.00	5.20	104		1.000
13C7-PFUnA		5.00	5.17	103		1.049
13C2-PFDoA		5.00	4.09	81.8		1.085
13C2-PFTeDA		5.00	1.06	21.1		1.166
13C3-PFBS		10.0	9.50	94.7		0.801
13C3-PFHxS		10.0	8.53	85.2		1.000
13C8-PFOS		10.1	10.6	106		1.000
13C2-4:2 FTS		20.2	17.6	87.4		0.835
13C2-6:2 FTS		20.0	21.4	107		1.001
13C2-8:2 FTS		20.0	17.7	88.5		1.268
13C8-PFOSA		10.0	14.5	145	3.97	1.160
D3-N-MeFOSA		10.0	2.88	28.8		1.345
D5-N-EtFOSA		10.0	2.97	29.7		1.382
D3-MeFOSAA		20.0	15.2	76.1		1.316
D5-EtFOSAA		20.0	20.1	100		1.342
d7-NMe-FOSE		100	4.30	4.30		1.330
d9-NEt-FOSE		100	24.4	24.4		1.367
13C3-HFPO-DA		40.0	32.7	81.7		1.032

(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: _____ Jordan Berends _____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-CP-3

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-39 i

Matrix: TISSUE

Sample Size: 2.05 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 17:45:07

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 24

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.390 (Q)		
PFPeA	U		0.195 (Q)		
PFHxA	U		0.0976 (Q)		
PFHpA	U		0.0976 (Q)		
PFOA	U		0.0976 (Q)		
PFNA	U		0.0976 (Q)		
PFDA	U		0.0976 (Q)		
PFUnA	U		0.0976 (Q)		
PFDaA	U		0.0976 (Q)		
PFTTrDA	B J	0.102	0.0976 (Q)	4.48	0.961
PFTeDA	U		0.104 (S)		
PFBS	U		0.0976 (Q)		
PFPeS	U		0.0980 (Q)		
PFHxS	U		0.0976 (Q)		
PFHpS	U		0.0976 (Q)		
PFOS	J	0.374	0.0976 (Q)	2.81	
PFNS	U		0.0976 (Q)		
PFDS	U		0.0976 (Q)		
PFDoS	U		0.0976 (Q)		
4:2 FTS	U		0.390 (Q)		
6:2 FTS	U		0.352 (Q)		
8:2 FTS	U		0.390 (Q)		
PFOSA	B	0.817	0.0976 (Q)		
N-MeFOSA	U		0.112 (Q)		
N-EtFOSA	U		0.244 (Q)		
MeFOSAA	U		0.0976 (Q)		
EtFOSAA	U		0.0976 (Q)		
N-MeFOSE	U H		0.976 (Q)		
N-EtFOSE	U		0.730 (Q)		
HFPO-DA	U		0.371 (Q)		
ADONA	U		0.390 (Q)		
9CI-PF3ONS	U		0.391 (Q)		
11CI-PF3OUdS	U		0.391 (Q)		
3:3 FTCA	U		0.390 (Q)		
5:3 FTCA	U		2.44 (Q)		
7:3 FTCA	U		2.44 (Q)		
PFEESA	U		0.0976 (Q)		
PFMPA	U		0.195 (Q)		
PFMBA	U		0.0976 (Q)		
NFDHA	U		0.195 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; J = concentration less than limit of quantification; H = concentration is estimated.

(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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFA's_L34988-39_Form1A_FC1L_319S24_SJ2933547.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-CP-3

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-39 i

Matrix: TISSUE

Sample Size: 2.05 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 17:45:07

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 24

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	37.1	92.7	25.1	0.995
13C5-PFPeA		20.0	19.5	97.7		0.862
13C5-PFHxA		10.0	9.07	90.7		1.000
13C4-PFHpA		10.0	5.74	57.4		0.896
13C8-PFOA		10.0	7.86	78.6		1.000
13C9-PFNA		5.00	4.64	92.8	2.65	1.000
13C6-PFDA		5.00	4.91	98.3		1.000
13C7-PFUnA		5.00	4.81	96.3		1.049
13C2-PFDoA		5.00	3.60	72.1		1.085
13C2-PFTeDA		5.00	0.850	17.0		1.166
13C3-PFBS		10.0	8.43	84.0		0.800
13C3-PFHxS		10.0	9.34	93.3		1.000
13C8-PFOS		10.1	10.4	103		1.000
13C2-4:2 FTS		20.2	21.9	109		0.836
13C2-6:2 FTS		20.0	20.0	99.8		1.002
13C2-8:2 FTS		20.0	18.1	90.2		1.270
13C8-PFOSA		10.0	13.8	138		1.160
D3-N-MeFOSA		10.0	2.70	27.0		1.346
D5-N-EtFOSA		10.0	2.80	28.0		1.382
D3-MeFOSAA		20.0	14.8	74.1		1.318
D5-EtFOSAA		20.0	17.2	86.2		1.344
d7-NMe-FOSE		100	7.27	7.27	2.39	1.330
d9-NEt-FOSE		100	34.8	34.8		1.367
13C3-HFPO-DA		40.0	34.3	85.8		1.032

(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: _____ Jordan Berends _____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-YP-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-40 i

Matrix: TISSUE

Sample Size: 2.08 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 17:58:06

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 25

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.385 (Q)		
PFPeA	U		0.192 (Q)		
PFHxA	U		0.0962 (Q)		
PFHpA	U		0.0962 (Q)		
PFOA	U		0.0962 (Q)		
PFNA	U		0.0962 (Q)		
PFDA	U		0.0962 (Q)		
PFUnA	B J	0.155	0.0962 (Q)	5.10	1.000
PFDoA	U		0.0962 (Q)		
PFTTrDA	B J	0.164	0.0962 (Q)	3.64	0.962
PFTeDA	J	0.141	0.0962 (Q)	4.14	1.000
PFBS	U		0.0962 (Q)		
PFPeS	U		0.0966 (Q)		
PFHxS	U		0.0962 (Q)		
PFHpS	U		0.0962 (Q)		
PFOS	J	0.325	0.0962 (Q)	2.67	
PFNS	U		0.0962 (Q)		
PFDS	U		0.0962 (Q)		
PFDoS	U		0.0962 (Q)		
4:2 FTS	U		0.385 (Q)		
6:2 FTS	U		0.347 (Q)		
8:2 FTS	U		0.385 (Q)		
PFOSA	U		0.0962 (Q)		
N-MeFOSA	U		0.111 (Q)		
N-EtFOSA	U		0.240 (Q)		
MeFOSAA	U		0.0962 (Q)		
EtFOSAA	U		0.0962 (Q)		
N-MeFOSE	U H		0.962 (Q)		
N-EtFOSE	U		0.719 (Q)		
HFPO-DA	U		0.365 (Q)		
ADONA	U		0.385 (Q)		
9CI-PF3ONS	U		0.386 (Q)		
11CI-PF3OUdS	U		0.385 (Q)		
3:3 FTCA	U		0.385 (Q)		
5:3 FTCA	U		2.40 (Q)		
7:3 FTCA	U		2.40 (Q)		
PFEESA	U		0.0962 (Q)		
PFMPA	U		0.192 (Q)		
PFMBA	U		0.0962 (Q)		
NFDHA	U		0.192 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; J = concentration less than limit of quantification; H = concentration is estimated.

(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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFA's_L34988-40_Form1A_FC1L_319S25_SJ2933548.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-YP-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-40 i

Matrix: TISSUE

Sample Size: 2.08 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 17:58:06

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 25

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	36.1	90.3	22.7	1.000
13C5-PFPeA		20.0	20.1	100		0.861
13C5-PFHxA		10.0	9.85	98.5		0.999
13C4-PFHpA		10.0	10.3	103		0.896
13C8-PFOA		10.0	8.29	82.9		1.000
13C9-PFNA		5.00	4.66	93.2	2.41	1.000
13C6-PFDA		5.00	5.14	103		1.000
13C7-PFUnA		5.00	5.40	108		1.049
13C2-PFDoA		5.00	4.13	82.6		1.085
13C2-PFTeDA		5.00	1.11	22.3		1.166
13C3-PFBS		10.0	7.85	78.2	2.42	0.800
13C3-PFHxS		10.0	9.56	95.4		0.999
13C8-PFOS		10.1	10.2	101		1.000
13C2-4:2 FTS		20.2	24.2	120		0.836
13C2-6:2 FTS		20.0	20.4	102		1.002
13C2-8:2 FTS		20.0	17.4	86.7	3.26	1.270
13C8-PFOSA		10.0	13.3	133		1.161
D3-N-MeFOSA		10.0	2.49	24.9		1.346
D5-N-EtFOSA		10.0	2.98	29.8		1.382
D3-MeFOSAA		20.0	15.6	77.8		1.318
D5-EtFOSAA		20.0	25.3	127	3.08	1.344
d7-NMe-FOSE		100	5.70	5.70		1.330
d9-NEt-FOSE		100	27.2	27.2		1.367
13C3-HFPO-DA		40.0	30.9	77.2		1.030

(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: _____ Jordan Berends _____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-YP-2

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-41 i

Matrix: TISSUE

Sample Size: 2.03 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 18:11:12

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 26

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.394 (Q)		
PFPeA	U		0.197 (Q)		
PFHxA	U		0.0985 (Q)		
PFHpA	U		0.0985 (Q)		
PFOA	U		0.0985 (Q)		
PFNA	U		0.0985 (Q)		
PFDA	U		0.0985 (Q)		
PFUnA	B J	0.187	0.0985 (Q)	5.06	1.000
PFDoA	J	0.117	0.0985 (Q)	8.13	1.000
PFTTrDA	B J	0.227	0.0985 (Q)	3.31	0.962
PFTeDA	U		0.0985 (Q)		
PFBS	U		0.0985 (Q)		
PFPeS	U		0.0990 (Q)		
PFHxS	U		0.0985 (Q)		
PFHpS	U		0.0985 (Q)		
PFOS		0.579	0.0985 (Q)	2.75	
PFNS	U		0.0985 (Q)		
PFDS	U		0.0985 (Q)		
PFDoS	U		0.0985 (Q)		
4:2 FTS	U		0.394 (Q)		
6:2 FTS	U		0.355 (Q)		
8:2 FTS	U		0.394 (Q)		
PFOSA	U		0.0985 (Q)		
N-MeFOSA	U		0.113 (Q)		
N-EtFOSA	U		0.246 (Q)		
MeFOSAA	U		0.0985 (Q)		
EtFOSAA	U		0.0985 (Q)		
N-MeFOSE	U H		0.985 (Q)		
N-EtFOSE	U		0.737 (Q)		
HFPO-DA	U		0.374 (Q)		
ADONA	U		0.394 (Q)		
9CI-PF3ONS	U		0.395 (Q)		
11CI-PF3OUdS	U		0.395 (Q)		
3:3 FTCA	U		0.394 (Q)		
5:3 FTCA	U		2.46 (Q)		
7:3 FTCA	U		2.46 (Q)		
PFEESA	U		0.0985 (Q)		
PFMPA	U		0.197 (Q)		
PFMBA	U		0.0985 (Q)		
NFDHA	U		0.197 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; J = concentration less than limit of quantification; H = concentration is estimated.

(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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFA's_L34988-41_Form1A_FC1L_319S26_SJ2933549.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-YP-2

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-41 i

Matrix: TISSUE

Sample Size: 2.03 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 18:11:12

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 26

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	37.9	94.8		1.000
13C5-PFPeA		20.0	25.3	126		0.862
13C5-PFHxA		10.0	12.6	126	25.1	1.000
13C4-PFHpA		10.0	9.90	99.0		0.894
13C8-PFOA		10.0	9.45	94.5		1.000
13C9-PFNA		5.00	4.77	95.4		1.001
13C6-PFDA		5.00	4.84	96.9		1.000
13C7-PFUnA		5.00	4.73	94.6		1.049
13C2-PFDoA		5.00	4.64	92.9		1.085
13C2-PFTeDA		5.00	4.33	86.5		1.165
13C3-PFBS		10.0	9.31	92.8	3.88	0.800
13C3-PFHxS		10.0	10.1	101	2.56	1.000
13C8-PFOS		10.1	10.4	103	2.17	1.000
13C2-4:2 FTS		20.2	20.9	104	2.25	0.836
13C2-6:2 FTS		20.0	22.0	110	2.16	1.002
13C2-8:2 FTS		20.0	17.8	88.8	3.02	1.270
13C8-PFOSA		10.0	13.2	132		1.162
D3-N-MeFOSA		10.0	3.60	36.0		1.345
D5-N-EtFOSA		10.0	4.27	42.7		1.382
D3-MeFOSAA		20.0	16.0	79.8		1.316
D5-EtFOSAA		20.0	21.5	107		1.344
d7-NMe-FOSE		100	5.89	5.89		1.330
d9-NEt-FOSE		100	47.7	47.7		1.368
13C3-HFPO-DA		40.0	45.0	113	3.31	1.032

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

(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: _____Jordan Berends_____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-YP-3

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-42 i

Matrix: TISSUE

Sample Size: 2.03 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 18:24:18

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 27

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.394 (Q)		
PFPeA	U		0.197 (Q)		
PFHxA	U		0.0985 (Q)		
PFHpA	U		0.0985 (Q)		
PFOA	U		0.0985 (Q)		
PFNA	U		0.0985 (Q)		
PFDA	U		0.0985 (Q)		
PFUnA	K B J	0.176	0.0985 (Q)	7.18	1.000
PFDoA	U		0.0985 (Q)		
PFTTrDA	B J	0.154	0.0985 (Q)	2.80	0.963
PFTeDA	U		0.0985 (Q)		
PFBS	U		0.0985 (Q)		
PFPeS	U		0.0990 (Q)		
PFHxS	U		0.0985 (Q)		
PFHpS	U		0.0985 (Q)		
PFOS		0.739	0.0985 (Q)	3.02	
PFNS	U		0.0985 (Q)		
PFDS	U		0.0985 (Q)		
PFDoS	U		0.0985 (Q)		
4:2 FTS	U		0.394 (Q)		
6:2 FTS	U		0.355 (Q)		
8:2 FTS	U		0.394 (Q)		
PFOSA	U		0.0985 (Q)		
N-MeFOSA	U		0.113 (Q)		
N-EtFOSA	U		0.246 (Q)		
MeFOSAA	U		0.0985 (Q)		
EtFOSAA	U		0.0985 (Q)		
N-MeFOSE	U H		0.985 (Q)		
N-EtFOSE	U		0.737 (Q)		
HFPO-DA	U		0.374 (Q)		
ADONA	U		0.394 (Q)		
9CI-PF3ONS	U		0.395 (Q)		
11CI-PF3OUdS	U		0.395 (Q)		
3:3 FTCA	U		0.394 (Q)		
5:3 FTCA	U		2.46 (Q)		
7:3 FTCA	U		2.46 (Q)		
PFEESA	U		0.0985 (Q)		
PFMPA	U		0.197 (Q)		
PFMBA	U		0.0985 (Q)		
NFDHA	U		0.197 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; J = concentration less than limit of quantification; H = concentration is estimated.

(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: _____Jordan Berends_____

For Axys Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFAAS_L34988-42_Form1A_FC1L_319S27_SJ2933550.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-YP-3

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-42 i

Matrix: TISSUE

Sample Size: 2.03 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 18:24:18

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 27

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	36.8	91.9		1.000
13C5-PFPeA		20.0	17.2	85.8		0.862
13C5-PFHxA		10.0	7.91	79.1	30.1	1.000
13C4-PFHpA		10.0	10.1	101		0.894
13C8-PFOA		10.0	9.68	96.8		1.000
13C9-PFNA		5.00	4.64	92.7		1.000
13C6-PFDA		5.00	4.69	93.7		0.999
13C7-PFUnA		5.00	4.59	91.7		1.049
13C2-PFDoA		5.00	4.06	81.3		1.085
13C2-PFTeDA		5.00	2.88	57.7		1.165
13C3-PFBS		10.0	8.81	87.9	3.02	0.800
13C3-PFHxS		10.0	9.04	90.2	2.39	1.000
13C8-PFOS		10.1	10.5	105	2.21	1.000
13C2-4:2 FTS		20.2	21.5	106	2.40	0.836
13C2-6:2 FTS		20.0	17.7	88.4	1.86	1.001
13C2-8:2 FTS		20.0	17.5	87.3	3.35	1.269
13C8-PFOSA		10.0	10.8	108		1.163
D3-N-MeFOSA		10.0	3.50	35.0		1.345
D5-N-EtFOSA		10.0	3.92	39.2		1.382
D3-MeFOSAA		20.0	16.2	81.1		1.316
D5-EtFOSAA		20.0	23.9	119		1.344
d7-NMe-FOSE		100	3.78	3.78		1.330
d9-NEt-FOSE		100	57.9	57.9		1.367
13C3-HFPO-DA		40.0	25.2	63.0	2.85	1.032

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

(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: _____ Jordan Berends _____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-WS-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-43 i (A)

Matrix: TISSUE

Sample Size: 2.00 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 18:37:24

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 28

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.400 (Q)		
PFPeA	U		0.200 (Q)		
PFHxA	U		0.100 (Q)		
PFHpA	U		0.100 (Q)		
PFOA	U		0.100 (Q)		
PFNA	U		0.100 (Q)		
PFDA	J	0.124	0.100 (Q)	2.91	1.000
PFUnA	B	0.513	0.100 (Q)	4.40	1.000
PFDaA	J	0.287	0.100 (Q)	7.82	1.000
PFTTrDA	B J	0.359	0.100 (Q)	2.82	0.962
PFTeDA	J	0.257	0.128 (S)	3.51	1.001
PFBS	U		0.100 (Q)		
PFPeS	U		0.101 (Q)		
PFHxS	J	0.147	0.100 (Q)	1.79	
PFHpS	U		0.100 (Q)		
PFOS		0.811	0.100 (Q)	2.36	
PFNS	U		0.100 (Q)		
PFDS	U		0.100 (Q)		
PFDoS	U		0.100 (Q)		
4:2 FTS	U		0.400 (Q)		
6:2 FTS	U		0.361 (Q)		
8:2 FTS	U		0.400 (Q)		
PFOSA	U		0.100 (Q)		
N-MeFOSA	U		0.115 (Q)		
N-EtFOSA	U		0.250 (Q)		
MeFOSAA	U		0.100 (Q)		
EtFOSAA	U		0.100 (Q)		
N-MeFOSE	U H		1.00 (Q)		
N-EtFOSE	U		0.748 (Q)		
HFPO-DA	U		0.380 (Q)		
ADONA	U		0.400 (Q)		
9CI-PF3ONS	U		0.401 (Q)		
11CI-PF3OUdS	U		0.401 (Q)		
3:3 FTCA	U		0.400 (Q)		
5:3 FTCA	U		2.50 (Q)		
7:3 FTCA	U		2.50 (Q)		
PFEESA	U		0.100 (Q)		
PFMPA	U		0.200 (Q)		
PFMBA	U		0.100 (Q)		
NFDHA	U		0.200 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; J = concentration less than limit of quantification; H = concentration is estimated.

(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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFA's_L34988-43_Form1A_FC1L_319S28_SJ2933551.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-WS-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-43 i (A)

Matrix: TISSUE

Sample Size: 2.00 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 18:37:24

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 28

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	36.4	91.1		1.000
13C5-PFPeA		20.0	19.1	95.4		0.862
13C5-PFHxA		10.0	8.69	86.9	24.8	1.000
13C4-PFHpA		10.0	6.56	65.6		0.894
13C8-PFOA		10.0	8.09	80.9		0.999
13C9-PFNA		5.00	4.54	90.8		1.000
13C6-PFDA		5.00	4.57	91.4		1.000
13C7-PFUnA		5.00	4.76	95.2		1.049
13C2-PFDoA		5.00	3.86	77.2		1.085
13C2-PFTeDA	V	5.00	0.982	19.6		1.166
13C3-PFBS		10.0	7.06	70.3	2.36	0.800
13C3-PFHxS		10.0	8.85	88.4	2.22	1.000
13C8-PFOS		10.1	9.69	96.3	2.00	1.000
13C2-4:2 FTS		20.2	12.3	61.2	1.29	0.836
13C2-6:2 FTS		20.0	20.0	100	2.38	1.002
13C2-8:2 FTS		20.0	16.2	81.1	3.39	1.270
13C8-PFOSA		10.0	9.14	91.4		1.162
D3-N-MeFOSA		10.0	1.43	14.3		1.345
D5-N-EtFOSA		10.0	1.63	16.3		1.382
D3-MeFOSAA		20.0	15.0	75.1		1.318
D5-EtFOSAA		20.0	23.8	119		1.344
d7-NMe-FOSE	V	100	1.30	1.30		1.328
d9-NEt-FOSE		100	18.7	18.7		1.367
13C3-HFPO-DA		40.0	37.5	93.7	4.01	1.032

(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: _____Jordan Berends_____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.
052521-E-WS-1 (Duplicate)
Sample Collection:
25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

WG77105-103 i (DUP L34988-43)

Matrix: TISSUE

Sample Size: 2.04 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 18:50:29

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 29

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.392 (Q)		
PFPeA	U		0.196 (Q)		
PFHxA	U		0.0980 (Q)		
PFHpA	U		0.0980 (Q)		
PFOA	U		0.0980 (Q)		
PFNA	U		0.0980 (Q)		
PFDA	J	0.128	0.0980 (Q)	2.32	1.000
PFUnA	B	0.470	0.0980 (Q)	4.35	1.000
PFDoA	J	0.307	0.0980 (Q)	10.4	1.000
PFTTrDA	B	0.417	0.0980 (Q)	2.97	0.963
PFTeDA	J	0.292	0.0980 (Q)	3.44	1.001
PFBS	U		0.0980 (Q)		
PFPeS	U		0.0985 (Q)		
PFHxS	J	0.158	0.0980 (Q)	2.85	
PFHpS	U		0.0980 (Q)		
PFOS		0.694	0.0980 (Q)	2.39	
PFNS	U		0.0980 (Q)		
PFDS	U		0.0980 (Q)		
PFDoS	U		0.0980 (Q)		
4:2 FTS	U		0.392 (Q)		
6:2 FTS	B	1.55	0.353 (Q)	0.48	0.999
8:2 FTS	U		0.392 (Q)		
PFOSA	U		0.0980 (Q)		
N-MeFOSA	U		0.113 (Q)		
N-EtFOSA	U		0.245 (Q)		
MeFOSAA	U		0.0980 (Q)		
EtFOSAA	U		0.0980 (Q)		
N-MeFOSE	U H		0.980 (Q)		
N-EtFOSE	K J H	0.935	0.733 (Q)		
HFPO-DA	U		0.373 (Q)		
ADONA	U		0.392 (Q)		
9CI-PF3ONS	U		0.393 (Q)		
11CI-PF3OUdS	U		0.393 (Q)		
3:3 FTCA	U		0.392 (Q)		
5:3 FTCA	U		2.45 (Q)		
7:3 FTCA	U		2.45 (Q)		
PFEESA	U		0.0980 (Q)		
PFMPA	U		0.196 (Q)		
PFMBA	U		0.0980 (Q)		
NFDHA	U		0.196 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; J = concentration less than limit of quantification; H = concentration is estimated.

(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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFAS_WG77105-103_Form1A_FC1L_319S29_SJ2933552.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.
052521-E-WS-1 (Duplicate)
Sample Collection:
25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

WG77105-103 i (DUP L34988-43)

Matrix: TISSUE

Sample Size: 2.04 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 18:50:29

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 29

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	33.8	84.6		1.000
13C5-PFPeA		20.0	19.4	97.2		0.862
13C5-PFHxA		10.0	7.42	74.2	22.9	1.000
13C4-PFHpA		10.0	8.23	82.3		0.896
13C8-PFOA		10.0	7.72	77.2		1.000
13C9-PFNA		5.00	4.16	83.1		1.000
13C6-PFDA		5.00	4.46	89.1		1.000
13C7-PFUnA		5.00	4.59	91.8		1.049
13C2-PFDoA		5.00	3.89	77.8		1.085
13C2-PFTeDA	V	5.00	1.08	21.6		1.165
13C3-PFBS		10.0	7.52	75.0	2.68	0.800
13C3-PFHxS		10.0	7.87	78.6	2.25	1.000
13C8-PFOS		10.1	10.3	102	2.23	1.000
13C2-4:2 FTS		20.2	20.2	100	2.05	0.836
13C2-6:2 FTS		20.0	19.2	96.0	2.01	1.002
13C2-8:2 FTS		20.0	16.8	83.6	3.52	1.270
13C8-PFOSA		10.0	11.5	115		1.163
D3-N-MeFOSA		10.0	1.24	12.4		1.347
D5-N-EtFOSA		10.0	1.95	19.5		1.382
D3-MeFOSAA		20.0	14.6	72.9		1.318
D5-EtFOSAA		20.0	24.7	123		1.344
d7-NMe-FOSE		100	2.52	2.52		1.327
d9-NEt-FOSE		100	6.63	6.63		1.367
13C3-HFPO-DA		40.0	36.8	92.1	2.98	1.032

(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: _____ Jordan Berends _____

For Axys Internal Use Only [XSL Template: FC2-Form2.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFA_SG77105-103_Form2_FC1L_319S29_SJ2933552.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

PERFLUORINATED ORGANICS ANALYSIS REPORT
RELATIVE PERCENT DIFFERENCE

SGS AXYS ANALYTICAL SERVICES

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

Project No.

ERG 0394.00.013.004

Contract No.: 4853

Client ID: 052521-E-WS-1

Concentration Units: ng/g (wet weight basis)

COMPOUND	L34988-43 (A)		WG77105-103		MEAN	RELATIVE PERCENT DIFFERENCE
	LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
PFBA	U		U			
PFPeA	U		U			
PFHxA	U		U			
PFHpA	U		U			
PFOA	U		U			
PFNA	U		U			
PFDA	J	0.124	J	0.128	0.126	3.01
PFUnA		0.513		0.470	0.492	8.70
PFDoA	J	0.287	J	0.307	0.297	6.68
PFTTrDA	J	0.359		0.417	0.388	15.1
PFTeDA	J	0.257	J	0.292	0.275	12.8
PFBS	U		U			
PFPeS	U		U			
PFHxS	J	0.147	J	0.158	0.153	6.88
PFHpS	U		U			
PFOS		0.811		0.694	0.752	15.5
PFNS	U		U			
PFDS	U		U			
PFDoS	U		U			
4:2 FTS	U		U			
6:2 FTS	U			1.55		
8:2 FTS	U		U			
PFOSA	U		U			
N-MeFOSA	U		U			
N-EtFOSA	U		U			
MeFOSAA	U		U			
EtFOSAA	U		U			
N-MeFOSE	U H		U H			
N-EtFOSE	U		K J H	0.935		
HFPO-DA	U		U			
ADONA	U		U			
9CI-PF3ONS	U		U			
11CI-PF3OUdS	U		U			
3:3 FTCA	U		U			
5:3 FTCA	U		U			
7:3 FTCA	U		U			
PFEESA	U		U			
PFMPA	U		U			
PFMBA	U		U			
NFDHA	U		U			

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than limit of quantification; H = concentration is estimated.

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

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: RPD.xml; Created: 28-Jul-2021 10:55:02; Application: XMLTransformer-1.18.26;
Report Filename: RPD_FC_LC_PFAS-RPD_WG77105-103_L34988-43_.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-WS-2

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-44 i

Matrix: TISSUE

Sample Size: 2.01 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 19:03:34

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 30

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U H		2.85 (S)		
PFPeA	U H		0.574 (S)		
PFHxA	U		0.176 (S)		
PFHpA	U		0.0995 (Q)		
PFOA	U		0.110 (S)		
PFNA	U		0.135 (S)		
PFDA	K J	0.146	0.0995 (Q)	4.68	0.999
PFUnA	B J	0.387	0.0995 (Q)	3.89	1.000
PFDaA	J	0.172	0.0995 (Q)	7.28	1.000
PFTTrDA	B J	0.265	0.0995 (Q)	3.31	0.962
PFTeDA	J	0.156	0.0995 (Q)	3.93	1.000
PFBS	U		0.0995 (Q)		
PFPeS	U		0.100 (Q)		
PFHxS	J	0.138	0.0995 (Q)	2.13	
PFHpS	U		0.0995 (Q)		
PFOS		0.529	0.0995 (Q)	2.46	
PFNS	U		0.0995 (Q)		
PFDS	U		0.0995 (Q)		
PFDoS	U		0.0995 (Q)		
4:2 FTS	U H		0.398 (Q)		
6:2 FTS	B	17.1	0.359 (Q)	0.41	1.000
8:2 FTS	U		0.398 (Q)		
PFOSA	U		0.0995 (Q)		
N-MeFOSA	U H		0.135 (S)		
N-EtFOSA	U		0.249 (Q)		
MeFOSAA	U		0.0995 (Q)		
EtFOSAA	U		0.0995 (Q)		
N-MeFOSE	U H		0.995 (Q)		
N-EtFOSE	K H	3.30	0.744 (Q)		
HFPO-DA	U		0.378 (Q)		
ADONA	U		0.398 (Q)		
9CI-PF3ONS	U		0.399 (Q)		
11CI-PF3OUdS	U		0.399 (Q)		
3:3 FTCA	U		0.398 (Q)		
5:3 FTCA	U		2.49 (Q)		
7:3 FTCA	U		2.49 (Q)		
PFEESA	U		0.0995 (Q)		
PFMPA	U		0.199 (Q)		
PFMBA	U		0.0995 (Q)		
NFDHA	U		0.515 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; J = concentration less than limit of quantification; H = concentration is estimated.

(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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFA_S_L34988-44_Form1A_FC1L_319S30_SJ2933553.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-WS-2

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-44 i

Matrix: TISSUE

Sample Size: 2.01 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 19:03:34

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 30

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	0.816	2.04		1.000
13C5-PFPeA	V	20.0	1.21	6.04		0.861
13C5-PFHxA	V	10.0	1.11	11.1	25.6	1.000
13C4-PFHpA	V	10.0	1.62	16.2		0.894
13C8-PFOA	V	10.0	1.93	19.3		1.000
13C9-PFNA	V	5.00	1.45	29.0		1.000
13C6-PFDA	V	5.00	2.42	48.4		1.000
13C7-PFUnA		5.00	3.42	68.4		1.049
13C2-PFDoA		5.00	3.55	71.0		1.085
13C2-PFTeDA	V	5.00	1.36	27.2		1.165
13C3-PFBS	V	10.0	2.62	26.1	2.68	0.800
13C3-PFHxS		10.0	5.36	53.5	2.35	1.000
13C8-PFOS		10.1	9.37	93.1	2.09	1.000
13C2-4:2 FTS	V	20.2	1.67	8.28	2.42	0.836
13C2-6:2 FTS	V	20.0	2.79	13.9	2.17	1.001
13C2-8:2 FTS	V	20.0	4.11	20.5	2.96	1.270
13C8-PFOSA		10.0	6.58	65.8		1.163
D3-N-MeFOSA		10.0	0.526	5.26		1.346
D5-N-EtFOSA		10.0	1.23	12.3		1.382
D3-MeFOSAA	V	20.0	7.07	35.4		1.316
D5-EtFOSAA		20.0	13.0	64.8		1.344
d7-NMe-FOSE		100	4.11	4.11		1.327
d9-NEt-FOSE	V	100	1.35	1.35		1.368
13C3-HFPO-DA	V	40.0	4.25	10.6	2.84	1.032

(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: _____ Jordan Berends _____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-SMB-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-45 i

Matrix: TISSUE

Sample Size: 2.00 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 19:16:39

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 31

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.400 (Q)		
PFPeA	U		0.200 (Q)		
PFHxA	U		0.100 (Q)		
PFHpA	U		0.100 (Q)		
PFOA	U		0.100 (Q)		
PFNA	U		0.100 (Q)		
PFDA	U		0.100 (Q)		
PFUnA	B J	0.324	0.100 (Q)	4.67	1.000
PFDoA	J	0.183	0.100 (Q)	6.21	1.000
PFTTrDA	B J	0.378	0.100 (Q)	3.19	0.962
PFTeDA	J	0.281	0.100 (Q)	3.38	0.999
PFBS	U		0.100 (Q)		
PFPeS	U		0.101 (Q)		
PFHxS	U		0.100 (Q)		
PFHpS	U		0.100 (Q)		
PFOS		0.643	0.100 (Q)	2.40	
PFNS	U		0.100 (Q)		
PFDS	U		0.100 (Q)		
PFDoS	U		0.100 (Q)		
4:2 FTS	U		0.400 (Q)		
6:2 FTS	U		0.361 (Q)		
8:2 FTS	U		0.400 (Q)		
PFOSA	U		0.100 (Q)		
N-MeFOSA	U		0.115 (Q)		
N-EtFOSA	U		0.250 (Q)		
MeFOSAA	U		0.100 (Q)		
EtFOSAA	U		0.100 (Q)		
N-MeFOSE	U		1.00 (Q)		
N-EtFOSE	U		0.748 (Q)		
HFPO-DA	U		0.380 (Q)		
ADONA	U		0.400 (Q)		
9CI-PF3ONS	U		0.401 (Q)		
11CI-PF3OUdS	U		0.401 (Q)		
3:3 FTCA	U		0.400 (Q)		
5:3 FTCA	U		2.50 (Q)		
7:3 FTCA	U		2.50 (Q)		
PFEESA	U		0.100 (Q)		
PFMPA	U		0.200 (Q)		
PFMBA	U		0.100 (Q)		
NFDHA	U		0.200 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; 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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFA's_L34988-45_Form1A_FC1L_319S31_SJ2933554.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-SMB-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-45 i

Matrix: TISSUE

Sample Size: 2.00 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 19:16:39

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 31

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	34.3	85.8	22.9	0.995
13C5-PFPeA		20.0	18.9	94.5		0.861
13C5-PFHxA		10.0	9.00	90.0		1.001
13C4-PFHpA		10.0	8.85	88.5		0.896
13C8-PFOA		10.0	8.81	88.1		1.000
13C9-PFNA		5.00	4.33	86.6	2.53	1.001
13C6-PFDA		5.00	4.64	92.7		1.000
13C7-PFUnA		5.00	4.50	89.9		1.049
13C2-PFDoA		5.00	3.51	70.1		1.085
13C2-PFTeDA		5.00	0.814	16.3		1.166
13C3-PFBS		10.0	7.60	75.7	2.76	0.801
13C3-PFHxS		10.0	9.64	96.2		1.000
13C8-PFOS		10.1	9.37	93.2		1.000
13C2-4:2 FTS		20.2	18.6	92.4		0.835
13C2-6:2 FTS		20.0	18.9	94.5		1.001
13C2-8:2 FTS		20.0	14.3	71.6	3.32	1.268
13C8-PFOSA		10.0	13.1	131		1.160
D3-N-MeFOSA		10.0	2.12	21.2		1.345
D5-N-EtFOSA		10.0	2.22	22.2		1.382
D3-MeFOSAA		20.0	13.2	66.2		1.316
D5-EtFOSAA		20.0	16.3	81.5	2.06	1.342
d7-NMe-FOSE		100	25.0	25.0		1.329
d9-NEt-FOSE		100	20.9	20.9		1.367
13C3-HFPO-DA		40.0	22.1	55.2		1.033

(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: _____Jordan Berends_____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-SMB-2

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-46 i

Matrix: TISSUE

Sample Size: 2.01 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 19:29:44

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 32

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.398 (Q)		
PFPeA	U		0.199 (Q)		
PFHxA	U		0.0995 (Q)		
PFHpA	U		0.0995 (Q)		
PFOA	U		0.0995 (Q)		
PFNA	U		0.0995 (Q)		
PFDA	J	0.104	0.0995 (Q)	1.88	1.000
PFUnA	B	0.572	0.0995 (Q)	4.50	1.000
PFDoA	J	0.365	0.0995 (Q)	8.17	1.000
PFTTrDA	B	0.548	0.0995 (Q)	2.69	0.962
PFTeDA	J	0.208	0.0995 (Q)	2.27	1.000
PFBS	U		0.0995 (Q)		
PFPeS	U		0.100 (Q)		
PFHxS	U		0.0995 (Q)		
PFHpS	U		0.0995 (Q)		
PFOS		1.18	0.0995 (Q)	2.49	
PFNS	U		0.0995 (Q)		
PFDS	U		0.0995 (Q)		
PFDoS	U		0.0995 (Q)		
4:2 FTS	U		0.398 (Q)		
6:2 FTS	U		0.359 (Q)		
8:2 FTS	U		0.398 (Q)		
PFOSA	U		0.0995 (Q)		
N-MeFOSA	U		0.114 (Q)		
N-EtFOSA	U		0.249 (Q)		
MeFOSAA	U		0.0995 (Q)		
EtFOSAA	U		0.0995 (Q)		
N-MeFOSE	U H		0.995 (Q)		
N-EtFOSE	K J H	0.888	0.744 (Q)		
HFPO-DA	U		0.378 (Q)		
ADONA	U		0.398 (Q)		
9CI-PF3ONS	U		0.399 (Q)		
11CI-PF3OUdS	U		0.399 (Q)		
3:3 FTCA	U		0.398 (Q)		
5:3 FTCA	U		2.49 (Q)		
7:3 FTCA	U		2.49 (Q)		
PFEESA	U		0.0995 (Q)		
PFMPA	U		0.199 (Q)		
PFMBA	U		0.0995 (Q)		
NFDHA	U		0.199 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; J = concentration less than limit of quantification; H = concentration is estimated.

(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: _____Jordan Berends_____

For Axys Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFAAS_L34988-46_Form1A_FC1L_319S32_SJ2933555.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-SMB-2

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-46 i

Matrix: TISSUE

Sample Size: 2.01 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 19:29:44

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 32

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	38.4	95.9	32.3	1.000
13C5-PFPeA		20.0	21.3	106		0.861
13C5-PFHxA		10.0	10.5	105		1.000
13C4-PFHpA		10.0	9.94	99.4		0.895
13C8-PFOA		10.0	9.39	93.9		0.999
13C9-PFNA		5.00	4.50	90.0	2.24	1.001
13C6-PFDA		5.00	5.06	101		1.000
13C7-PFUnA		5.00	4.79	95.7		1.049
13C2-PFDoA		5.00	3.78	75.7		1.085
13C2-PFTeDA		5.00	0.844	16.9		1.166
13C3-PFBS		10.0	7.73	77.1		0.800
13C3-PFHxS		10.0	9.23	92.1		1.000
13C8-PFOS		10.1	10.7	106		1.000
13C2-4:2 FTS		20.2	25.2	125		0.835
13C2-6:2 FTS		20.0	20.5	103		1.001
13C2-8:2 FTS		20.0	17.0	84.7		1.268
13C8-PFOSA		10.0	13.9	139	3.93	1.160
D3-N-MeFOSA		10.0	2.34	23.4		1.346
D5-N-EtFOSA		10.0	1.99	19.9		1.382
D3-MeFOSAA		20.0	14.9	74.7		1.316
D5-EtFOSAA		20.0	19.4	96.9		1.342
d7-NMe-FOSE		100	5.96	5.96		1.330
d9-NEt-FOSE		100	5.22	5.22		1.367
13C3-HFPO-DA		40.0	37.5	93.8		1.032

(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: _____Jordan Berends_____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-SMB-3

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-47 i

Matrix: TISSUE

Sample Size: 2.01 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 19:42:50

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 33

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.398 (Q)		
PFPeA	U		0.199 (Q)		
PFHxA	U		0.0995 (Q)		
PFHpA	U		0.0995 (Q)		
PFOA	U		0.0995 (Q)		
PFNA	U		0.0995 (Q)		
PFDA	J	0.109	0.0995 (Q)	2.72	1.000
PFUnA	B	0.490	0.0995 (Q)	4.53	1.000
PFDoA	J	0.270	0.0995 (Q)	6.48	1.000
PFTTrDA	B J	0.312	0.0995 (Q)	2.89	0.962
PFTeDA	J	0.156	0.0995 (Q)	2.25	1.000
PFBS	U		0.0995 (Q)		
PFPeS	U		0.100 (Q)		
PFHxS	U		0.0995 (Q)		
PFHpS	U		0.0995 (Q)		
PFOS		1.24	0.0995 (Q)	2.57	
PFNS	U		0.0995 (Q)		
PFDS	U		0.0995 (Q)		
PFDoS	U		0.0995 (Q)		
4:2 FTS	U		0.398 (Q)		
6:2 FTS	U		0.359 (Q)		
8:2 FTS	U		0.398 (Q)		
PFOSA	U		0.0995 (Q)		
N-MeFOSA	U		0.114 (Q)		
N-EtFOSA	U		0.249 (Q)		
MeFOSAA	U		0.0995 (Q)		
EtFOSAA	U		0.0995 (Q)		
N-MeFOSE	U H		0.995 (Q)		
N-EtFOSE	U		0.744 (Q)		
HFPO-DA	U		0.378 (Q)		
ADONA	U		0.398 (Q)		
9CI-PF3ONS	U		0.399 (Q)		
11CI-PF3OUdS	U		0.399 (Q)		
3:3 FTCA	U		0.398 (Q)		
5:3 FTCA	U		2.49 (Q)		
7:3 FTCA	U		2.49 (Q)		
PFEESA	U		0.0995 (Q)		
PFMPA	U		0.199 (Q)		
PFMBA	U		0.0995 (Q)		
NFDHA	U		0.199 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; J = concentration less than limit of quantification; H = concentration is estimated.

(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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFAS_L34988-47_Form1A_FC1L_319S33_SJ2933556.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-SMB-3

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-47 i

Matrix: TISSUE

Sample Size: 2.01 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 19:42:50

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 33

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	39.5	98.8	35.3	0.995
13C5-PFPeA		20.0	21.5	108		0.862
13C5-PFHxA		10.0	10.9	109		1.000
13C4-PFHpA		10.0	9.97	99.7		0.895
13C8-PFOA		10.0	9.62	96.2		0.999
13C9-PFNA		5.00	4.61	92.1	2.48	0.999
13C6-PFDA		5.00	5.26	105		1.000
13C7-PFUnA		5.00	4.63	92.6		1.049
13C2-PFDoA		5.00	3.91	78.3		1.085
13C2-PFTeDA		5.00	0.982	19.6		1.166
13C3-PFBS		10.0	9.11	90.8		0.801
13C3-PFHxS		10.0	8.73	87.2		1.001
13C8-PFOS		10.1	10.6	105		1.000
13C2-4:2 FTS		20.2	19.4	96.2		0.835
13C2-6:2 FTS		20.0	21.6	108		1.001
13C2-8:2 FTS		20.0	15.7	78.5		1.268
13C8-PFOSA		10.0	14.7	147	2.45	1.160
D3-N-MeFOSA		10.0	2.25	22.5		1.346
D5-N-EtFOSA		10.0	2.11	21.1		1.382
D3-MeFOSAA		20.0	13.3	66.4		1.316
D5-EtFOSAA		20.0	17.5	87.3		1.342
d7-NMe-FOSE		100	8.90	8.90		1.330
d9-NEt-FOSE		100	17.3	17.3		1.368
13C3-HFPO-DA		40.0	34.1	85.3		1.032

(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: _____ Jordan Berends _____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-P-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-48 i

Matrix: TISSUE

Sample Size: 2.01 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 19:55:55

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 34

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.398 (Q)		
PFPeA	U		0.199 (Q)		
PFHxA	U		0.0995 (Q)		
PFHpA	U		0.0995 (Q)		
PFOA	U		0.0995 (Q)		
PFNA	U		0.0995 (Q)		
PFDA	U		0.0995 (Q)		
PFUnA	B J	0.167	0.0995 (Q)	5.29	1.000
PFDoA	J	0.110	0.0995 (Q)	8.61	1.000
PFTTrDA	K B J	0.143	0.0995 (Q)	5.36	0.962
PFTeDA	J	0.134	0.0995 (Q)	2.99	1.001
PFBS	U		0.0995 (Q)		
PFPeS	U		0.100 (Q)		
PFHxS	U		0.0995 (Q)		
PFHpS	U		0.0995 (Q)		
PFOS		0.452	0.0995 (Q)	2.58	
PFNS	U		0.0995 (Q)		
PFDS	U		0.0995 (Q)		
PFDoS	U		0.0995 (Q)		
4:2 FTS	U		0.398 (Q)		
6:2 FTS	U		0.359 (Q)		
8:2 FTS	U		0.398 (Q)		
PFOSA	U		0.0995 (Q)		
N-MeFOSA	U		0.114 (Q)		
N-EtFOSA	U		0.249 (Q)		
MeFOSAA	U		0.0995 (Q)		
EtFOSAA	U		0.0995 (Q)		
N-MeFOSE	U		0.995 (Q)		
N-EtFOSE	U H		0.744 (Q)		
HFPO-DA	U		0.378 (Q)		
ADONA	U		0.398 (Q)		
9CI-PF3ONS	U		0.399 (Q)		
11CI-PF3OUdS	U		0.399 (Q)		
3:3 FTCA	U		0.398 (Q)		
5:3 FTCA	U		2.49 (Q)		
7:3 FTCA	U		2.49 (Q)		
PFEESA	U		0.0995 (Q)		
PFMPA	U		0.199 (Q)		
PFMBA	U		0.0995 (Q)		
NFDHA	U		0.199 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; J = concentration less than limit of quantification; H = concentration is estimated.

(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: _____Jordan Berends_____

For Axy Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFA L34988-48_Form1A_FC1L_319S34_SJ2933557.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-P-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-48 i

Matrix: TISSUE

Sample Size: 2.01 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 19:55:55

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 34

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	35.2	88.0	27.5	1.000
13C5-PFPeA		20.0	22.2	111		0.862
13C5-PFHxA		10.0	11.3	113		1.000
13C4-PFHpA		10.0	7.57	75.7		0.896
13C8-PFOA		10.0	7.93	79.3		1.001
13C9-PFNA		5.00	4.64	92.7	3.29	0.999
13C6-PFDA		5.00	4.61	92.2		1.000
13C7-PFUnA		5.00	4.87	97.3		1.049
13C2-PFDoA		5.00	3.73	74.5		1.085
13C2-PFTeDA		5.00	0.763	15.3		1.166
13C3-PFBS		10.0	7.85	78.3	2.54	0.801
13C3-PFHxS		10.0	8.95	89.4		1.000
13C8-PFOS		10.1	9.38	93.2		1.000
13C2-4:2 FTS		20.2	18.4	91.4		0.835
13C2-6:2 FTS		20.0	21.3	107		1.001
13C2-8:2 FTS		20.0	14.4	72.1	3.68	1.268
13C8-PFOSA		10.0	13.2	132		1.160
D3-N-MeFOSA		10.0	2.08	20.8		1.346
D5-N-EtFOSA		10.0	1.80	18.0		1.382
D3-MeFOSAA		20.0	12.3	61.3		1.316
D5-EtFOSAA		20.0	14.4	71.9		1.342
d7-NMe-FOSE		100	12.2	12.2	3.70	1.330
d9-NEt-FOSE		100	5.77	5.77		1.368
13C3-HFPO-DA		40.0	38.2	95.6		1.032

(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: _____ Jordan Berends _____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-P-2

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-49 i

Matrix: TISSUE

Sample Size: 2.04 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 20:09:01

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 35

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.392 (Q)		
PFPeA	U		0.196 (Q)		
PFHxA	U		0.0980 (Q)		
PFHpA	U		0.0980 (Q)		
PFOA	U		0.0980 (Q)		
PFNA	U		0.0980 (Q)		
PFDA	U		0.0980 (Q)		
PFUnA	B J	0.221	0.0980 (Q)	5.07	1.000
PFDaA	J	0.178	0.0980 (Q)	6.83	1.000
PFTTrDA	B J	0.316	0.0980 (Q)	3.89	0.963
PFTeDA	J	0.218	0.0980 (Q)	2.46	1.002
PFBS	U		0.0980 (Q)		
PFPeS	U		0.0985 (Q)		
PFHxS	U		0.0980 (Q)		
PFHpS	U		0.0980 (Q)		
PFOS		0.459	0.0980 (Q)	2.47	
PFNS	U		0.0980 (Q)		
PFDS	U		0.0980 (Q)		
PFDoS	U		0.0980 (Q)		
4:2 FTS	U		0.392 (Q)		
6:2 FTS	U		0.353 (Q)		
8:2 FTS	U		0.392 (Q)		
PFOSA	U		0.0980 (Q)		
N-MeFOSA	U		0.113 (Q)		
N-EtFOSA	U		0.245 (Q)		
MeFOSAA	U		0.0980 (Q)		
EtFOSAA	U		0.0980 (Q)		
N-MeFOSE	U H		0.980 (Q)		
N-EtFOSE	U H		0.733 (Q)		
HFPO-DA	U		0.373 (Q)		
ADONA	U		0.392 (Q)		
9CI-PF3ONS	U		0.393 (Q)		
11CI-PF3OUdS	U		0.393 (Q)		
3:3 FTCA	U		0.392 (Q)		
5:3 FTCA	U		2.45 (Q)		
7:3 FTCA	U		2.45 (Q)		
PFEESA	U		0.0980 (Q)		
PFMPA	U		0.196 (Q)		
PFMBA	U		0.0980 (Q)		
NFDHA	U		0.196 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; J = concentration less than limit of quantification; H = concentration is estimated.

(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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFAS_L34988-49_Form1A_FC1L_319S35_SJ2933558.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-P-2

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-49 i

Matrix: TISSUE

Sample Size: 2.04 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 20:09:01

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 35

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	35.7	89.1		0.995
13C5-PFPeA		20.0	18.7	93.3		0.862
13C5-PFHxA		10.0	8.74	87.4	26.1	1.000
13C4-PFHpA		10.0	7.99	79.9		0.896
13C8-PFOA		10.0	7.86	78.6		1.000
13C9-PFNA		5.00	4.24	84.8		1.001
13C6-PFDA		5.00	4.76	95.3		1.000
13C7-PFUnA		5.00	4.79	95.7		1.049
13C2-PFDoA		5.00	3.71	74.2		1.085
13C2-PFTeDA	V	5.00	0.730	14.6		1.165
13C3-PFBS		10.0	8.10	80.7	2.54	0.800
13C3-PFHxS		10.0	9.52	95.0	2.37	1.000
13C8-PFOS		10.1	10.2	101	2.19	1.000
13C2-4:2 FTS		20.2	16.6	82.4	1.95	0.835
13C2-6:2 FTS		20.0	18.5	92.7	1.85	1.001
13C2-8:2 FTS		20.0	14.0	69.7	3.27	1.268
13C8-PFOSA		10.0	13.6	136		1.160
D3-N-MeFOSA		10.0	1.87	18.7		1.345
D5-N-EtFOSA		10.0	1.66	16.6		1.382
D3-MeFOSAA		20.0	12.1	60.3		1.315
D5-EtFOSAA		20.0	15.6	78.1		1.342
d7-NMe-FOSE		100	8.72	8.72		1.330
d9-NEt-FOSE		100	9.88	9.88		1.367
13C3-HFPO-DA		40.0	28.2	70.4	2.50	1.032

(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: _____ Jordan Berends _____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-P-3

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-50 i

Matrix: TISSUE

Sample Size: 2.01 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 20:22:06

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 36

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.398 (Q)		
PFPeA	U		0.199 (Q)		
PFHxA	J	0.137	0.0995 (Q)	5.74	1.000
PFHpA	U		0.0995 (Q)		
PFOA	J	0.178	0.0995 (Q)	2.37	
PFNA	J	0.194	0.0995 (Q)	2.71	
PFDA	J	0.137	0.0995 (Q)	2.78	1.000
PFUnA	B J	0.295	0.0995 (Q)	3.94	1.000
PFDoA	J	0.158	0.0995 (Q)	9.83	1.000
PFTTrDA	B J	0.227	0.0995 (Q)	2.62	0.961
PFTeDA	J	0.171	0.0995 (Q)	4.12	1.000
PFBS	U		0.0995 (Q)		
PFPeS	U		0.100 (Q)		
PFHxS	U		0.0995 (Q)		
PFHpS	U		0.0995 (Q)		
PFOS		0.937	0.0995 (Q)	2.57	
PFNS	U		0.0995 (Q)		
PFDS	U		0.0995 (Q)		
PFDoS	U		0.0995 (Q)		
4:2 FTS	U		0.398 (Q)		
6:2 FTS	B	4.82	0.359 (Q)	0.37	0.999
8:2 FTS	U		0.398 (Q)		
PFOSA	U		0.0995 (Q)		
N-MeFOSA	U		0.114 (Q)		
N-EtFOSA	U		0.249 (Q)		
MeFOSAA	U		0.0995 (Q)		
EtFOSAA	U		0.0995 (Q)		
N-MeFOSE	U		0.995 (Q)		
N-EtFOSE	U		0.744 (Q)		
HFPO-DA	U		0.378 (Q)		
ADONA	U		0.398 (Q)		
9CI-PF3ONS	U		0.399 (Q)		
11CI-PF3OUdS	U		0.399 (Q)		
3:3 FTCA	U		0.398 (Q)		
5:3 FTCA	U		2.49 (Q)		
7:3 FTCA	U		2.49 (Q)		
PFEESA	U		0.0995 (Q)		
PFMPA	U		0.199 (Q)		
PFMBA	U		0.0995 (Q)		
NFDHA	U		0.199 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; 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: _____Jordan Berends_____

For Axys Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFAS_L34988-50_Form1A_FC1L_319S36_SJ2933559.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-P-3

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-50 i

Matrix: TISSUE

Sample Size: 2.01 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 20:22:06

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 36

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	35.1	87.9	26.7	1.000
13C5-PFPeA		20.0	18.0	89.8		0.862
13C5-PFHxA		10.0	8.44	84.4		1.000
13C4-PFHpA		10.0	9.95	99.5		0.894
13C8-PFOA		10.0	9.77	97.7		0.999
13C9-PFNA		5.00	4.45	89.0	2.56	1.000
13C6-PFDA		5.00	4.48	89.5		1.000
13C7-PFUnA		5.00	4.37	87.3		1.049
13C2-PFDoA		5.00	3.34	66.7		1.085
13C2-PFTeDA		5.00	1.19	23.8		1.166
13C3-PFBS		10.0	7.70	76.8	2.20	0.800
13C3-PFHxS		10.0	7.70	76.8		1.000
13C8-PFOS		10.1	9.57	95.1		1.000
13C2-4:2 FTS		20.2	16.0	79.3		0.836
13C2-6:2 FTS		20.0	17.5	87.6		1.002
13C2-8:2 FTS		20.0	13.6	67.7	3.19	1.270
13C8-PFOSA		10.0	12.2	122		1.160
D3-N-MeFOSA		10.0	1.79	17.9		1.345
D5-N-EtFOSA		10.0	1.88	18.8		1.382
D3-MeFOSAA		20.0	11.6	57.8		1.316
D5-EtFOSAA		20.0	14.7	73.6		1.344
d7-NMe-FOSE		100	17.3	17.3	2.36	1.328
d9-NEt-FOSE		100	15.4	15.4		1.367
13C3-HFPO-DA		40.0	28.5	71.2		1.032

(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: _____Jordan Berends_____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

052521-E-WP-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-51 i

Matrix: TISSUE

Sample Size: 2.00 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 20:35:12

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 37

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g (wet weight basis)

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.400 (Q)		
PFPeA	U		0.200 (Q)		
PFHxA	U		0.100 (Q)		
PFHpA	U		0.100 (Q)		
PFOA	U		0.100 (Q)		
PFNA	U		0.100 (Q)		
PFDA	U		0.100 (Q)		
PFUnA	B J	0.237	0.100 (Q)	4.73	1.000
PFDoA	J	0.127	0.100 (Q)	9.29	1.000
PFTTrDA	B J	0.197	0.100 (Q)	3.82	0.962
PFTeDA	U		0.100 (Q)		
PFBS	U		0.100 (Q)		
PFPeS	U		0.101 (Q)		
PFHxS	U		0.100 (Q)		
PFHpS	U		0.100 (Q)		
PFOS		0.869	0.100 (Q)	2.80	
PFNS	U		0.100 (Q)		
PFDS	U		0.100 (Q)		
PFDoS	U		0.100 (Q)		
4:2 FTS	U		0.400 (Q)		
6:2 FTS	U		0.361 (Q)		
8:2 FTS	U		0.400 (Q)		
PFOSA	U		0.100 (Q)		
N-MeFOSA	U		0.115 (Q)		
N-EtFOSA	U		0.250 (Q)		
MeFOSAA	U		0.100 (Q)		
EtFOSAA	U		0.100 (Q)		
N-MeFOSE	U		1.00 (Q)		
N-EtFOSE	U		0.748 (Q)		
HFPO-DA	U		0.380 (Q)		
ADONA	U		0.400 (Q)		
9CI-PF3ONS	U		0.401 (Q)		
11CI-PF3OUdS	U		0.401 (Q)		
3:3 FTCA	U		0.400 (Q)		
5:3 FTCA	U		2.50 (Q)		
7:3 FTCA	U		2.50 (Q)		
PFEESA	U		0.100 (Q)		
PFMPA	U		0.200 (Q)		
PFMBA	U		0.100 (Q)		
NFDHA	U		0.200 (Q)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in sample and the associated blank; 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: _____Jordan Berends_____

For Axy's Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFA's_L34988-51_Form1A_FC1L_319S37_SJ2933560.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

CLIENT SAMPLE NO.

052521-E-WP-1

Sample Collection:

25-May-2021 13:20

PERFLUORINATED ORGANICS 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.: 4853

Project No.

ERG 0394.00.013.004

Lab Sample I.D.:

L34988-51 i

Matrix: TISSUE

Sample Size: 2.00 g (wet)

Sample Receipt Date: 27-May-2021

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 20:35:12

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 37

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	36.3	90.6		1.000
13C5-PFPeA		20.0	20.5	103		0.862
13C5-PFHxA		10.0	9.89	98.9	23.5	1.000
13C4-PFHpA		10.0	7.49	74.9		0.896
13C8-PFOA		10.0	8.21	82.1		1.000
13C9-PFNA		5.00	4.92	98.4		0.999
13C6-PFDA		5.00	4.69	93.8		1.000
13C7-PFUnA		5.00	4.58	91.5		1.049
13C2-PFDoA		5.00	3.36	67.2		1.085
13C2-PFTeDA	V	5.00	1.17	23.4		1.166
13C3-PFBS		10.0	10.2	102	3.22	0.800
13C3-PFHxS		10.0	10.9	109	2.53	1.000
13C8-PFOS		10.1	10.5	104	2.20	1.000
13C2-4:2 FTS		20.2	14.5	71.7	2.43	0.836
13C2-6:2 FTS		20.0	18.2	90.9	2.13	1.001
13C2-8:2 FTS		20.0	12.2	60.8	3.41	1.270
13C8-PFOSA		10.0	9.04	90.4		1.160
D3-N-MeFOSA		10.0	2.22	22.2		1.347
D5-N-EtFOSA		10.0	1.66	16.6		1.381
D3-MeFOSAA	V	20.0	9.92	49.6		1.316
D5-EtFOSAA		20.0	14.8	73.9		1.344
d7-NMe-FOSE		100	31.6	31.6		1.328
d9-NEt-FOSE		100	30.0	30.0		1.367
13C3-HFPO-DA		40.0	32.8	82.1	2.09	1.032

(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: _____ Jordan Berends _____

SGS AXYS METHOD MLA-110 Rev 02

Form 1A

CLIENT SAMPLE NO.

Lab Blank

Sample Collection:

N/A

PERFLUORINATED ORGANICS 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.: 4853

Project No.

N/A

Lab Sample I.D.:

WG77105-101 i

Matrix: TISSUE

Sample Size: 2.00 g

Sample Receipt Date: N/A

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 16:52:54

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 20

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng/g

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RATIO	RRT
PFBA	U		0.400 (Q)		
PFPeA	U		0.200 (Q)		
PFHxA	U		0.100 (Q)		
PFHpA	U		0.100 (Q)		
PFOA	U		0.100 (Q)		
PFNA	U		0.100 (Q)		
PFDA	U		0.100 (Q)		
PFUnA	J	0.133	0.100 (Q)	3.96	1.000
PFDoA	U		0.100 (Q)		
PFTTrDA	J	0.106	0.100 (Q)	4.41	0.963
PFTeDA	U		0.100 (Q)		
PFBS	U		0.100 (Q)		
PFPeS	U		0.101 (Q)		
PFHxS	U		0.100 (Q)		
PFHpS	U		0.100 (Q)		
PFOS	U		0.100 (Q)		
PFNS	U		0.100 (Q)		
PFDS	U		0.100 (Q)		
PFDoS	U		0.100 (Q)		
4:2 FTS	U		0.400 (Q)		
6:2 FTS	J	0.536	0.361 (Q)	0.34	1.000
8:2 FTS	U		0.400 (Q)		
PFOSA	J	0.104	0.100 (Q)		
N-MeFOSA	U		0.115 (Q)		
N-EtFOSA	U		0.250 (Q)		
MeFOSAA	U		0.100 (Q)		
EtFOSAA	U		0.100 (Q)		
N-MeFOSE	U H		1.00 (Q)		
N-EtFOSE	U		0.748 (Q)		
HFPO-DA	U		0.380 (Q)		
ADONA	U		0.400 (Q)		
9CI-PF3ONS	U		0.401 (Q)		
11CI-PF3OUdS	U		0.401 (Q)		
3:3 FTCA	U		0.400 (Q)		
5:3 FTCA	U		2.50 (Q)		
7:3 FTCA	U		2.50 (Q)		
PFEESA	U		0.100 (Q)		
PFMPA	U		0.200 (Q)		
PFMBA	U		0.100 (Q)		
NFDHA	U		0.200 (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; H = concentration is estimated.
(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: _____Jordan Berends_____

For Axys Internal Use Only [XSL Template: FC2-Form1A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFC_FC_LC_PFAS_WG77105-101_Form1A_FC1L_319S20_SJ2933542.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 2

PERFLUORINATED ORGANICS 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.: 4853

Project No.

N/A

Lab Sample I.D.:

WG77105-101 i

Matrix: TISSUE

Sample Size: 2.00 g

Sample Receipt Date: N/A

Initial Calibration Date: 22-Feb-2021

Extraction Date: 07-Jul-2021

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021 Time: 16:52:54

Column ID: C18

Extract Volume (uL): 4000

Sample Data Filename: FC1L_319 S: 20

Injection Volume (uL): 2

Blank Data Filename: FC1L_296 S: 18

Dilution Factor: N/A

Cal. Ver. Data Filename: FC1L_319 S: 15

Concentration Units: ng absolute

This page is part of a total report that contains information necessary for accreditation compliance.
Results are compliant with NELAP accreditation described in the total report. 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	35.8	89.4		0.995
13C5-PFPeA		20.0	19.3	96.3		0.861
13C5-PFHxA		10.0	8.99	89.9	36.3	1.000
13C4-PFHpA		10.0	8.13	81.3		0.894
13C8-PFOA		10.0	6.43	64.3		0.999
13C9-PFNA		5.00	4.68	93.6		1.001
13C6-PFDA		5.00	4.47	89.3		0.999
13C7-PFUnA		5.00	4.18	83.5		1.049
13C2-PFDoA		5.00	3.90	77.9		1.085
13C2-PFTeDA		5.00	3.38	67.7		1.165
13C3-PFBS		10.0	6.93	69.1	2.38	0.800
13C3-PFHxS		10.0	9.37	93.6	2.47	1.000
13C8-PFOS		10.1	10.1	101	2.22	1.000
13C2-4:2 FTS		20.2	18.5	91.8	2.11	0.836
13C2-6:2 FTS		20.0	16.5	82.7	2.03	1.001
13C2-8:2 FTS		20.0	16.8	83.7	3.05	1.270
13C8-PFOSA		10.0	9.63	96.3		1.162
D3-N-MeFOSA		10.0	2.44	24.4		1.346
D5-N-EtFOSA		10.0	2.30	23.0		1.382
D3-MeFOSAA		20.0	12.7	63.7		1.316
D5-EtFOSAA		20.0	15.3	76.3		1.344
d7-NMe-FOSE	V	100	1.37	1.37		1.327
d9-NEt-FOSE		100	15.5	15.5		1.367
13C3-HFPO-DA		40.0	23.1	57.7	2.16	1.032

(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: _____Jordan Berends_____

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Report Filename: PFC_FC_LC_PFA_SJ2933542.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 8A

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.:	4853	Lab Sample I.D.:	WG77105-102 i
Matrix:	TISSUE	Initial Calibration Date:	22-Feb-2021
Extraction Date:	07-Jul-2021	Instrument ID:	LCMS/MS
Analysis Date:	23-Jul-2021 Time: 16:26:43	Column ID:	C18
Extract Volume (uL):	4000	OPR Data Filename:	FC1L_319 S: 18
Injection Volume (uL):	2	Blank Data Filename:	FC1L_296 S: 18
Dilution Factor:	N/A	Cal. Ver. Data Filename:	FC1L_319 S: 15

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			20.0	20.5	102	1.005
PFPeA			10.0	10.4	104	1.001
PFHxA		4.20	5.00	4.68	93.6	1.000
PFHpA		1.93	5.00	4.64	92.8	1.002
PFOA		2.25	5.00	5.05	101	
PFNA		2.78	5.00	5.04	101	
PFDA		3.15	5.00	5.12	102	0.999
PFUnA		4.50	5.00	5.56	111	1.000
PFDoA		7.49	5.00	5.12	102	1.000
PFTTrDA		2.94	5.00	5.37	107	0.963
PFTeDA		2.40	5.00	5.02	100	1.000
PFBS		2.59	5.00	5.59	112	1.000
PFPeS		2.50	5.01	5.36	107	0.887
PFHxS		2.30	5.00	4.44	88.9	
PFHpS		2.05	5.01	4.95	98.8	0.920
PFOS		2.57	5.00	5.17	103	
PFNS		2.26	5.01	4.56	91.0	1.048
PFDS		2.24	5.00	4.74	94.7	1.084
PFDoS		2.15	5.01	4.31	86.0	1.171
4:2 FTS		0.49	20.0	21.9	110	0.998
6:2 FTS		0.40	18.0	16.8	93.4	0.999
8:2 FTS		0.52	20.0	22.5	113	1.000
PFOSA			5.00	5.27	105	
N-MeFOSA		0.50	5.75	5.83	101	
N-EtFOSA		0.51	12.5	13.4	107	
MeFOSAA		2.14	5.00	5.40	108	
EtFOSAA		1.35	5.00	5.21	104	
N-MeFOSE	H N		50.0	113	226	
N-EtFOSE			37.5	43.7	117	
HFPO-DA		2.81	19.0	22.9	121	1.000
ADONA	N	1.13	20.1	34.2	171	1.098
9CI-PF3ONS	N	3.24	20.0	29.4	147	0.964
11CI-PF3OUdS	N	3.08	20.0	27.0	135	1.033
3:3 FTCA		1.74	20.0	18.3	91.3	0.852
5:3 FTCA		1.17	125	185	148	1.054

COMPOUND	LAB FLAG ¹	RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	% RECOVERY	RRT
7:3 FTCA		0.69	125	144	115	1.354
PFEESA		9.93	5.00	4.74	94.9	1.033
PFMPA			10.0	9.61	96.1	0.613
PFMBA			5.00	5.10	102	1.066
NFDHA	N	0.88	10.0	3.96	39.6	0.989

(1) Where applicable, custom lab flags have been used on this report; N = authentic recovery in the OPR is not within method/contract control limits; H = concentration is estimated.

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_____

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.

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Report Filename: PFC_FC_LC_PFAFAS_WG77105-102_Form8A_SJ2933539.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

Form 8B

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.:	4853	Lab Sample I.D.:	WG77105-102 i
Matrix:	TISSUE	Initial Calibration Date:	22-Feb-2021
Extraction Date:	07-Jul-2021	Instrument ID:	LCMS/MS
Analysis Date:	23-Jul-2021 Time: 16:26:43	Column ID:	C18
Extract Volume (uL):	4000	OPR Data Filename:	FC1L_319 S: 18
Injection Volume (uL):	2	Blank Data Filename:	FC1L_296 S: 18
Dilution Factor:	N/A	Cal. Ver. Data Filename:	FC1L_319 S: 15

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	37.3	93.2	0.995
13C5-PFPeA			20.0	20.6	103	0.862
13C5-PFHxA		24.8	10.0	10.6	106	1.000
13C4-PFHpA			10.0	10.1	101	0.894
13C8-PFOA			10.0	9.05	90.5	1.000
13C9-PFNA			5.00	4.68	93.5	1.000
13C6-PFDA			5.00	4.70	94.0	1.000
13C7-PFUnA			5.00	4.51	90.2	1.049
13C2-PFDoA			5.00	4.72	94.3	1.085
13C2-PFTeDA			5.00	4.31	86.3	1.165
13C3-PFBS		3.02	10.0	8.07	80.5	0.800
13C3-PFHxS		2.37	10.0	9.15	91.4	1.000
13C8-PFOS		2.09	10.1	10.2	101	1.000
13C2-4:2 FTS		2.19	20.2	23.4	116	0.836
13C2-6:2 FTS		2.11	20.0	18.7	93.6	1.002
13C2-8:2 FTS		3.10	20.0	19.9	99.4	1.270
13C8-PFOSA			10.0	12.6	126	1.163
D3-N-MeFOSA			10.0	2.45	24.5	1.347
D5-N-EtFOSA			10.0	4.09	40.9	1.382
D3-MeFOSAA			20.0	14.6	73.0	1.316
D5-EtFOSAA			20.0	17.6	88.2	1.344
d7-NMe-FOSE			100	3.20	3.20	1.327
d9-NEt-FOSE			100	21.0	21.0	1.367
13C3-HFPO-DA		2.31	40.0	27.6	69.1	1.032

(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 _____

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-110 Rev 02

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: 22-Feb-2021

Instrument ID: LC MS/MS

LC Column ID: C18

CS0 Data Filename: FC1L_080 S: 16

CS1 Data Filename: FC1L_080 S: 17

CS2 Data Filename: FC1L_080 S: 18

CS3 Data Filename: FC1L_080 S: 19

CS4 Data Filename: FC1L_080 S: 20

CS5 Data Filename: FC1L_080 S: 21

CS6 Data Filename: FC1L_080 S: 22

CS7 Data Filename: FC1L_080 S: 23

CS8 Data Filename: FC1L_080 S: 24

COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)								MEAN RR	CV (%RSD) ²	
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7			CS8
PFBA		1.06	1.05	1.05	1.00	1.01	0.98	0.99	0.96	0.94	1.00	4.20
PFPeA		1.37	1.29	1.24	1.19	1.21	1.17	1.20	1.15	1.12	1.21	6.24
PFHxA		1.16	1.28	1.12	1.05	1.03	0.97	1.04	0.97	0.94	1.06	10.2
PFHpA		1.19	1.14	1.09	1.14	1.10	1.11	1.08	1.05	0.96	1.10	5.97
PFOA		1.57	1.71	1.56	1.40	1.43	1.41	1.37	1.39	1.32	1.46	8.45
PFNA		0.99	1.13	1.10	1.01	0.99	1.02	1.06	0.97	0.99	1.03	5.34
PFDA		0.89	0.87	0.91	0.82	0.83	0.83	0.84	0.83	0.72	0.84	6.35
PFUnA		0.76	0.78	0.88	0.69	0.76	0.74	0.75	0.75		0.76	7.31
PFDoA		1.02	1.34	1.15	1.05	1.09	1.04	1.08	0.99	0.86	1.07	12.1
PFTTrDA		0.97	0.93	0.92	0.86	0.83	0.81	0.82	0.61		0.84	13.1
PFTeDA		0.86	0.77	0.79	0.73	0.76	0.72	0.72	0.62		0.74	9.15
PFBS		1.24	1.18	1.13	1.14	1.21	1.14	1.16	1.11	1.10	1.16	4.01
PFPeS		0.96	1.07	1.12	1.04	1.03	1.02	1.01	0.88	0.77	0.99	10.8
PFHxS		1.26	1.23	1.21	1.20	1.14	1.15	1.15	1.08	1.14	1.17	4.74
PFHpS		1.11	1.07	1.14	1.10	1.09	1.12	1.05	1.05	1.10	1.09	2.81
PFOS		1.25	1.39	1.30	1.17	1.28	1.24	1.20	1.16	1.26	1.25	5.50
PFNS		1.31	1.22	1.18	1.17	1.25	1.18	1.18	1.10	1.10	1.19	5.56
PFDS		1.10	1.23	1.17	1.14	1.16	1.16	1.12	1.04	1.08	1.13	5.03
PFDoS		0.95	0.93	0.96	0.88	0.93	0.93	0.90	0.91	1.00	0.93	3.65
4:2 FTS		0.43	0.50	0.50	0.51	0.52	0.47	0.45	0.42		0.48	8.19
6:2 FTS		0.63	0.54	0.58	0.50	0.52	0.49	0.47	0.40		0.52	13.6
8:2 FTS		0.30	0.27	0.26	0.27	0.25	0.28	0.27	0.23		0.27	7.98
PFOSA		1.04	1.05	1.02	0.99	0.98	0.99	0.97	0.94		1.00	3.72
N-MeFOSA		1.09	1.26	1.14	1.11	1.12	1.09	1.10	0.98		1.11	6.86
N-EtFOSA		1.20	1.27	1.24	1.19	1.18	1.19	1.23	1.15	1.16	1.20	3.34
MeFOSAA		0.86	0.81	0.86	0.84	0.91	0.89	0.86	0.81	0.81	0.85	4.20
EtFOSAA		0.78	0.63	0.92	0.72	0.73	0.74	0.78	0.68		0.75	11.3
N-MeFOSE		1.14	1.16	1.16	1.11	1.12	1.10	1.09	1.03	0.98	1.10	5.47
N-EtFOSE		1.25	1.25	1.27	1.21	1.21	1.18	1.20	1.10	1.04	1.19	6.47
HFPO-DA		1.16	1.24	1.13	1.10	1.08	1.02	1.05	0.96		1.09	7.93
ADONA		7.27	7.33	6.94	6.75	7.00	6.76	7.15	6.93		7.02	3.07
9CI-PF3ONS		2.07	2.11	2.07	2.00	1.93	1.86	1.98	1.90		1.99	4.46
11CI-PF3OUdS		1.05	1.11	1.06	1.04	1.02	1.06	1.12	1.14		1.07	3.83
3:3 FTCA		0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.10		0.08	9.63
5:3 FTCA		0.19	0.18	0.17	0.17	0.16	0.16	0.17	0.17		0.17	6.49
7:3 FTCA		0.10	0.10	0.10	0.10	0.10	0.09	0.10	0.11		0.10	4.46
PFEESA		3.72	3.25	3.11	3.23	3.09	2.95	3.20	2.99	2.87	3.16	7.86
PFMPA		1.78	1.77	1.75	1.69	1.72	1.72	1.78	1.94	2.27	1.82	10.1

COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)								MEAN RR	CV (%RSD) ²	
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7			CS8
PFMBA		2.48	2.43	2.35	2.30	2.32	2.33	2.26	2.60	2.81	2.43	7.22
NFDHA		0.05	0.04	0.04	0.04	0.05	0.05	0.04			0.04	17.6

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

(2) For contract CV specifications, see SGS AXYS METHOD MLA-110 Rev 02

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

Signed: _____ Henry Huang _____

For Axys Internal Use Only [XSL Template: FC2-Form3A.xsl; Created: 28-Jul-2021 10:52:19; Application: XMLTransformer-1.18.26;
Report Filename: PFOA_FC_LC_22-Feb-2021_FC1L__Form3A_GS93332.html; Workgroup: WG77105; Design ID: 4329]

SGS AXYS METHOD MLA-110 Rev 02

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: 22-Feb-2021

Instrument ID: LC MS/MS

LC Column ID: C18

CS0 Data Filename: FC1L_080 S: 16

CS1 Data Filename: FC1L_080 S: 17

CS2 Data Filename: FC1L_080 S: 18

CS3 Data Filename: FC1L_080 S: 19

CS4 Data Filename: FC1L_080 S: 20

CS5 Data Filename: FC1L_080 S: 21

CS6 Data Filename: FC1L_080 S: 22

CS7 Data Filename: FC1L_080 S: 23

CS8 Data Filename: FC1L_080 S: 24

Labeled Compound	Lab Flag ¹	Relative Response (RR)								Mean RR	CV (%RSD) ²	
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7			CS8
13C4-PFBA		1.17	1.16	1.14	1.16	1.13	1.13	1.13	1.13	1.11	1.14	1.73
13C5-PFPeA		0.83	0.85	0.85	0.88	0.87	0.84	0.81	0.79	0.69	0.82	7.00
13C5-PFHxA		0.67	0.69	0.72	0.70	0.74	0.73	0.68	0.70	0.66	0.70	3.78
13C4-PFHpA		3.63	3.49	3.60	3.42	3.44	3.25	3.33	2.97	2.73	3.32	8.93
13C8-PFOA		3.82	3.60	3.79	3.80	3.79	3.66	3.71	3.61	3.76	3.73	2.31
13C9-PFNA		1.16	1.15	1.14	1.17	1.16	1.13	1.10	1.17	1.15	1.15	2.03
13C6-PFDA		1.13	1.06	0.97	1.06	0.99	0.99	0.92	1.02	0.90	1.01	7.22
13C7-PFUnA		1.23	1.22	1.07	1.22	1.08	1.08	0.99	0.84		1.09	12.2
13C2-PFDoA		1.04	0.95	0.90	0.92	0.94	0.93	0.89	0.98	0.91	0.94	5.00
13C2-PFTeDA		0.86	0.85	0.81	0.83	0.80	0.77	0.74	0.94	1.11	0.86	13.0
13C3-PFBS		1.33	1.36	1.31	1.41	1.25	1.29	1.31	1.00	0.99	1.25	12.1
13C3-PFHxS		1.20	1.16	1.10	1.15	1.12	1.15	1.17	1.16	1.05	1.14	3.86
13C8-PFOS		0.96	0.91	0.93	0.94	0.92	0.87	0.93	0.94	0.90	0.92	3.08
13C2-4:2 FTS		1.25	1.08	1.11	1.04	1.05	1.03	1.06	1.14	1.47	1.14	12.5
13C2-6:2 FTS		0.98	0.88	0.86	0.84	0.90	0.84	0.91	1.06		0.91	8.52
13C2-8:2 FTS		1.50	1.37	1.48	1.38	1.53	1.32	1.40	1.52		1.44	5.42
13C8-PFOA		1.84	1.83	1.86	1.78	1.80	1.74	1.82	2.08		1.84	5.54
D3-N-MeFOSA		0.29	0.28	0.28	0.27	0.28	0.27	0.27	0.32		0.28	6.63
D5-N-EtFOSA		0.28	0.28	0.28	0.27	0.28	0.26	0.27	0.30	0.33	0.28	6.96
D3-MeFOSAA		0.96	0.84	0.87	0.86	0.91	0.83	0.97	1.12	1.21	0.95	13.9
D5-EtFOSAA		0.82	0.76	0.72	0.74	0.77	0.70	0.77	1.00		0.78	12.0
d7-NMe-FOSE		1.93	1.87	1.80	1.81	1.86	1.76	1.81	1.95	2.09	1.88	5.39
d9-NEt-FOSE		2.46	2.39	2.35	2.36	2.44	2.27	2.30	2.52	2.79	2.43	6.37
13C3-HFPO-DA		0.33	0.33	0.34	0.34	0.36	0.33	0.31	0.27		0.33	8.42

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

(2) For contract CV specifications, see SGS AXYS METHOD MLA-110 Rev 02.

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

Signed: _____ Henry Huang _____

SGS AXYS METHOD MLA-110 Rev 02

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: 22-Feb-2021

Instrument ID: LC MS/MS

LC Column ID: C18

CS0 Data Filename: FC1L_080 S: 16

CS1 Data Filename: FC1L_080 S: 17

CS2 Data Filename: FC1L_080 S: 18

CS3 Data Filename: FC1L_080 S: 19

CS4 Data Filename: FC1L_080 S: 20

CS5 Data Filename: FC1L_080 S: 21

CS6 Data Filename: FC1L_080 S: 22

CS7 Data Filename: FC1L_080 S: 23

CS8 Data Filename: FC1L_080 S: 24

COMPOUND	LAB FLAG ¹	RATIOS								
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8
PFBA										
PFPeA										
PFHxA		4.58	5.38	6.09	4.84	4.81	4.94	4.81	4.64	4.80
PFHpA		2.19	2.08	2.00	2.16	2.04	1.97	2.06	2.06	2.02
PFOA		1.85	2.15	2.04	1.95	2.03	2.00	1.96	2.06	2.02
PFNA		2.97	2.96	2.87	2.85	2.95	2.94	2.87	2.87	2.86
PFDA		3.23	3.02	3.02	3.06	3.07	3.16	2.96	3.21	3.03
PFUnA		4.29	4.50	4.89	4.31	4.74	4.28	4.73	4.49	
PFDaA		5.72	8.83	6.70	7.41	7.85	7.83	7.95	7.48	7.67
PFTTrDA		3.32	3.58	2.95	3.08	3.04	3.14	3.22	3.02	
PFTeDA		2.75	2.65	2.75	2.82	2.80	2.68	2.71	2.70	
PFBS		2.27	2.65	2.32	2.59	2.71	2.59	2.67	2.60	2.59
PFPeS		1.83	2.06	2.39	2.25	2.35	2.31	2.27	2.26	2.33
PFHxS		2.64	2.36	2.44	2.39	2.28	2.34	2.44	2.32	2.38
PFHpS		2.08	1.90	2.00	2.12	2.08	2.20	2.08	2.10	2.08
PFOS		2.29	2.51	2.55	2.58	2.67	2.70	2.60	2.59	2.66
PFNS		2.07	2.08	2.27	2.36	2.41	2.26	2.32	2.18	2.30
PFDS		2.08	2.80	2.21	2.35	2.38	2.17	2.36	2.18	2.30
PFDoS		2.31	2.11	2.33	2.23	2.18	2.26	2.25	2.27	2.28
4:2 FTS		0.38	0.41	0.44	0.43	0.45	0.46	0.43	0.45	
6:2 FTS		0.51	0.43	0.47	0.44	0.43	0.47	0.45	0.44	
8:2 FTS		0.58	0.48	0.55	0.57	0.53	0.57	0.54	0.54	
PFOSA										
N-MeFOSA		0.52	0.55	0.50	0.54	0.53	0.53	0.53	0.53	
N-EtFOSA		0.52	0.56	0.54	0.53	0.53	0.53	0.53	0.53	0.54
MeFOSAA		1.88	2.07	2.11	1.85	1.98	2.02	1.98	1.94	1.94
EtFOSAA		1.85	1.56	1.58	1.09	1.16	1.10	1.15	1.10	
N-MeFOSE										
N-EtFOSE										
HFPO-DA		2.58	3.07	2.82	2.87	2.67	2.50	2.63	2.75	
ADONA		1.15	1.12	1.08	1.08	1.20	1.11	1.13	1.06	
9CI-PF3ONS		3.24	3.13	3.02	3.20	3.02	3.04	3.13	3.07	
11CI-PF3OUdS		2.63	3.01	3.14	3.13	3.06	3.19	3.14	3.05	
3:3 FTCA		1.69	1.51	1.64	1.78	1.89	1.91	1.92	1.96	
5:3 FTCA		0.85	1.08	1.14	1.21	1.22	1.24	1.26	1.31	

COMPOUND	LAB FLAG ¹	RATIOS								
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8
7:3 FTCA		0.69	0.69	0.70	0.71	0.69	0.68	0.71	0.68	
PFEESA		8.11	7.52	8.32	9.28	8.69	8.99	9.71	9.18	9.28
PFMPA										
PFMBA										
NFDHA		0.83	1.08	1.12	0.95	1.69	1.32	1.19		

(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: _____ Henry Huang _____

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Report Filename: PFOA_FC_LC_22-Feb-2021_FC1L__Form3C_GS93332.html; Workgroup: WG77105; Design ID: 4329]

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: 22-Feb-2021

Instrument ID: LC MS/MS

LC Column ID: C18

CS0 Data Filename: FC1L_080 S: 16

CS1 Data Filename: FC1L_080 S: 17

CS2 Data Filename: FC1L_080 S: 18

CS3 Data Filename: FC1L_080 S: 19

CS4 Data Filename: FC1L_080 S: 20

CS5 Data Filename: FC1L_080 S: 21

CS6 Data Filename: FC1L_080 S: 22

CS7 Data Filename: FC1L_080 S: 23

CS8 Data Filename: FC1L_080 S: 24

LABELED COMPOUND	LAB FLAG ¹	RATIOS								
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8
13C4-PFBA										
13C5-PFPeA										
13C5-PFHxA		24.2	23.3	27.8	23.3	25.6	26.9	25.6	24.5	26.7
13C4-PFHpA										
13C8-PFOA										
13C9-PFNA										
13C6-PFDA										
13C7-PFUnA										
13C2-PFDoA										
13C2-PFTeDA										
13C3-PFBS		2.57	2.71	2.73	2.73	2.72	2.72	2.79	2.69	2.85
13C3-PFHxS		2.40	2.29	2.34	2.38	2.29	2.40	2.49	2.36	2.28
13C8-PFOS		2.08	2.05	2.09	2.33	2.09	2.15	2.22	2.37	2.14
13C2-4:2 FTS		1.84	1.90	1.74	1.62	1.51	1.55	1.25	0.54	0.24
13C2-6:2 FTS		1.93	2.03	1.87	1.87	1.80	1.74	1.44	0.71	
13C2-8:2 FTS		3.89	3.55	3.84	3.75	3.20	3.03	2.50	1.10	
13C8-PFOSA										
D3-N-MeFOSA										
D5-N-EtFOSA										
D3-MeFOSAA										
D5-EtFOSAA										
d7-NMe-FOSE										
d9-NEt-FOSE										
13C3-HFPO-DA		2.67	2.74	2.54	2.64	2.57	2.89	2.76	2.91	

(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: _____ Henry Huang _____

SGS AXYS METHOD MLA-110 Rev 02

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: 22-Feb-2021

VER Data Filename: FC1L_319 S: 15

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021

LC Column ID: C18

Analysis Time: 15:47:26

COMPOUND	LAB FLAG ¹	RRT	QUANT TRANSITION	RATIO	EXPECTED CONC. (ng)	CONC. FOUND (ng)	RECOVERY (%)
PFBA		1.005	213 > 169		20.0	19.6	98.0
PFPeA		1.001	263 > 219		10.0	9.68	96.8
PFHxA		1.000	313 > 269	4.72	5.00	4.55	90.9
PFFHpA		1.000	363 > 319	2.01	5.00	4.47	89.4
PFOA		1.000	413 > 369	1.90	5.00	4.51	90.1
PFNA		1.000	463 > 419	2.83	5.00	4.68	93.5
PFDA		1.000	513 > 469	2.93	5.00	4.60	92.0
PFUnA		1.000	563 > 519	4.29	5.00	4.99	99.7
PFDaA		1.000	613 > 569	7.24	5.00	4.96	99.2
PFTTrDA		0.962	663 > 619	3.01	5.00	5.05	101
PFTeDA		1.000	713 > 669	2.48	5.00	4.84	96.8
PFBS		1.000	299 > 80	2.63	5.00	5.58	112
PFPeS		0.886	349 > 80	2.42	5.01	5.51	110
PFHxS		1.000	399 > 80	2.37	5.00	4.78	95.5
PFFHpS		0.921	449 > 80	2.06	5.01	4.85	96.8
PFOS		1.001	499 > 80	2.51	5.00	4.63	92.7
PFNS		1.048	549 > 80	2.25	5.01	4.73	94.3
PFDS		1.084	599 > 80	2.30	5.00	4.72	94.4
PFDoS		1.172	699 > 80	2.27	5.01	4.67	93.2
4:2 FTS		1.000	327 > 307	0.36	20.0	15.1	75.3
6:2 FTS		1.000	427 > 407	0.40	18.0	14.9	82.9
8:2 FTS		1.000	527 > 507	0.53	20.0	21.8	109
PFOSA		1.000	498 > 78		5.00	4.89	97.8
N-MeFOSA		1.000	512 > 219	0.52	5.75	5.61	97.5
N-EtFOSA		1.001	526 > 219	0.52	12.5	12.3	98.4
MeFOSAA		1.000	570 > 419	1.97	5.00	5.11	102
EtFOSAA		1.001	584 > 419	1.22	5.00	5.10	102
N-MeFOSE		1.002	616 > 59		50.0	48.4	96.8
N-EtFOSE		1.002	630 > 59		37.5	37.3	99.4
HFPO-DA		0.999	285 > 169	2.70	19.0	21.5	113
ADONA		1.097	377 > 251	1.18	20.0	27.0	135
9CI-PF3ONS		0.965	531 > 351	3.29	20.0	25.6	128
11CI-PF3OUdS		1.034	631 > 451	3.08	20.0	23.9	119
3:3 FTCA		0.855	241 > 177	1.83	20.0	16.8	83.8
5:3 FTCA		1.054	341 > 237	1.37	125	109	87.5
7:3 FTCA		1.355	441 > 317	0.69	125	113	90.3
PFEESA		1.034	315 > 135	8.98	5.00	4.77	95.3
PFMPA		0.617	229 > 85		10.0	9.10	91.0
PFMBA		1.067	279 > 85		5.00	4.62	92.3
NFDHA		0.989	295 > 201	2.09	10.0	8.53	85.3

(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: _____ Jordan Berends _____

SGS AXYS METHOD MLA-110 Rev 02

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: 22-Feb-2021

VER Data Filename: FC1L_319 S: 15

Instrument ID: LCMS/MS

Analysis Date: 23-Jul-2021

LC Column ID: C18

Analysis Time: 15:47:26

LABELLED COMPOUND	LAB FLAG ¹	RRT	QUANT TRANSITION	RATIO	EXPECTED CONC. (ng)	CONC. FOUND (ng)	RECOVERY (%)
13C4-PFBA		1.000	217 > 172		40.0	40.2	101
13C5-PFPeA		0.863	268 > 223		20.0	21.2	106
13C5-PFHxA		1.000	318 > 273	23.7	10.0	10.4	104
13C4-PFHpA		0.895	367 > 322		10.0	10.6	106
13C8-PFOA		1.000	421 > 376		10.0	10.4	104
13C9-PFNA		1.000	472 > 427		5.00	5.48	110
13C6-PFDA		1.000	519 > 474		5.00	5.34	107
13C7-PFUnA		1.049	570 > 525		5.00	5.17	103
13C2-PFDoA		1.085	615 > 570		5.00	4.89	97.9
13C2-PFTeDA		1.166	715 > 670		5.00	4.68	93.6
13C3-PFBS		0.799	302 > 80	2.87	10.0	9.37	93.5
13C3-PFHxS		1.000	402 > 80	2.30	10.0	10.0	99.9
13C8-PFOS		0.999	507 > 80	2.10	10.1	10.4	103
13C2-4:2 FTS		0.836	329 > 81	1.78	20.2	17.6	87.5
13C2-6:2 FTS		1.001	429 > 81	2.10	20.0	21.0	105
13C2-8:2 FTS		1.270	529 > 81	3.20	20.0	17.6	87.9
13C8-PFOSA		1.159	506 > 78		10.0	10.4	104
D3-N-MeFOSA		1.344	515 > 219		10.0	9.39	93.9
D5-N-EtFOSA		1.380	531 > 219		10.0	8.90	89.0
D3-MeFOSAA		1.316	573 > 419		22.5	14.5	64.7
D5-EtFOSAA		1.342	589 > 419		20.0	14.1	70.4
d7-NMe-FOSE		1.326	623 > 59		100	117	117
d9-NEt-FOSE		1.364	639 > 59		100	132	132
13C3-HFPO-DA		1.033	287 > 169	2.74	40.0	31.6	79.1

(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_____

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Report Filename: PFOA_FC_LC_FC1L_319S15__Form4B_SJ2933536.html; Workgroup: WG77105; Design ID: 4329]

Page 84 of 118

Accreditation Scope
SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 57

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Solids	Alaska DEC	ANAB DdD **	ANAB ISO 17025	CALA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Tissue and Tissue Flora	ANAB DdD **	ANAB ISO 17025	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DdD **	ANAB ISO 17025
		EPA 1699	MLA-028																											
		SGS AXYS MLA-028	MLA-028	Y					Y		Y						Y			Y	Y							Y		
		SGS AXYS MLA-007	MLA-007						Y		Y									Y										
		SGS AXYS MLA-228	MLA-228						Y		Y						Y			Y	Y							Y		
Alpha-HCH		EPA 625	MLA-007																											
		EPA 8270	MLA-007								Y	Y			Y	Y	Y													
		EPA 1699	MLA-028								Y											Y								
		SGS AXYS MLA-028	MLA-028	Y					Y		Y						Y			Y	Y			Y				Y		
		SGS AXYS MLA-007	MLA-007						Y		Y									Y										
		SGS AXYS MLA-228	MLA-228						Y		Y						Y			Y	Y							Y		
Beta-HCH		EPA 625	MLA-007																											
		EPA 8270	MLA-007								Y	Y			Y	Y	Y													
		EPA 1699	MLA-028								Y																			
		SGS AXYS MLA-028	MLA-028	Y					Y		Y						Y			Y	Y			Y				Y		
		SGS AXYS MLA-007	MLA-007						Y		Y									Y										
		SGS AXYS MLA-228	MLA-228						Y		Y						Y			Y	Y							Y		
Chlordane, technical		EPA 8270	MLA-007								Y	Y			Y	Y														
		SGS AXYS MLA-007	MLA-007								Y																			
		SGS AXYS MLA-228	MLA-228						Y		Y																			
		SGS AXYS MLA-007	MLA-007						Y		Y									Y	Y							Y		
cis-Chlordane (alpha-Chlordane)		EPA 8270	MLA-007								Y	Y			Y		Y													
		EPA 1699	MLA-028								Y																			
		SGS AXYS MLA-028	MLA-028	Y					Y		Y						Y			Y	Y							Y		
		SGS AXYS MLA-007	MLA-007						Y		Y									Y										
cis-Nonachlor		EPA 8270	MLA-007								Y						Y													
		EPA 1699	MLA-028								Y																			
		SGS AXYS MLA-028	MLA-028	Y					Y		Y						Y			Y	Y							Y		
		SGS AXYS MLA-007	MLA-007						Y		Y									Y										
Delta-HCH		EPA 608	MLA-007																											
		EPA 8081	MLA-007								Y	Y			Y	Y	Y													
		EPA 1699	MLA-028								Y																			
		SGS AXYS MLA-028	MLA-028	Y					Y		Y						Y			Y	Y							Y		
Dieldrin		EPA 608	MLA-007								Y																			
		EPA 8081	MLA-007								Y	Y			Y	Y	Y													
		EPA 1699	MLA-028								Y																			
		SGS AXYS MLA-028	MLA-028	Y					Y		Y						Y			Y	Y							Y		
Endosulphan I		EPA 608	MLA-007								Y																			
		EPA 8081	MLA-007								Y	Y			Y	Y	Y													
		EPA 1699	MLA-028								Y																			
		SGS AXYS MLA-028	MLA-028	Y					Y		Y						Y			Y	Y							Y		
Endosulphan II		EPA 608	MLA-007								Y																			
		EPA 8081	MLA-007								Y	Y			Y	Y	Y													
		EPA 1699	MLA-028								Y																			
		SGS AXYS MLA-028	MLA-028	Y					Y		Y						Y			Y	Y							Y		
Endosulphan sulphate		EPA 608	MLA-007								Y																			
		EPA 8081	MLA-007								Y	Y			Y	Y	Y													
		EPA 1699	MLA-028								Y																			
		SGS AXYS MLA-028	MLA-028	Y					Y		Y						Y			Y	Y							Y		
Endrin		EPA 608	MLA-007								Y																			
		EPA 8081	MLA-007								Y	Y			Y	Y	Y													
		EPA 1699	MLA-028								Y																			
		SGS AXYS MLA-028	MLA-028	Y					Y		Y						Y			Y	Y							Y		
		SGS AXYS MLA-007	MLA-007						Y		Y									Y										

Accreditation Scope
SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 57

Accreditation Scope				Serum	Solids											Tissue and Tissue Flora	Urine	Water	Water, Non-Portable	AFF								
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID			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
	Endrin aldehyde	SGS AXYS MLA-228	MLA-228					Y	Y							Y			Y	Y						Y		
		EPA 608	MLA-007																									
		EPA 8081	MLA-007								Y	Y			Y	Y	Y								Y			
		EPA 1699	MLA-028										Y									Y						
		SGS AXYS MLA-028	MLA-028	Y					Y	Y							Y			Y	Y					Y		
		SGS AXYS MLA-007	MLA-007						Y	Y										Y								
	Endrin ketone	SGS AXYS MLA-228	MLA-228						Y	Y							Y			Y	Y						Y	
		EPA 8081	MLA-007								Y				Y		Y											
		EPA 1699	MLA-028									Y										Y						
		SGS AXYS MLA-028	MLA-028	Y					Y	Y							Y			Y	Y					Y		
		SGS AXYS MLA-007	MLA-007						Y	Y										Y								
		SGS AXYS MLA-228	MLA-228						Y	Y							Y			Y	Y						Y	
	Gamma-HCH (Lindane)	EPA 625	MLA-007																									
		EPA 8270	MLA-007								Y	Y			Y	Y	Y								Y	Y		
		EPA 1699	MLA-028								Y											Y						
		SGS AXYS MLA-028	MLA-028	Y					Y	Y							Y			Y	Y					Y		
		SGS AXYS MLA-007	MLA-007						Y	Y										Y								
		SGS AXYS MLA-228	MLA-228						Y	Y							Y			Y	Y						Y	
	Heptachlor	EPA 625	MLA-007																									
		EPA 8270	MLA-007								Y	Y			Y	Y	Y								Y	Y		
		EPA 1699	MLA-028								Y											Y						
		SGS AXYS MLA-028	MLA-028	Y					Y	Y							Y			Y	Y					Y		
		SGS AXYS MLA-007	MLA-007						Y	Y										Y								
		SGS AXYS MLA-228	MLA-228						Y	Y							Y			Y	Y						Y	
	Heptachlor epoxide	EPA 608	MLA-007																									
		EPA 8081	MLA-007								Y	Y			Y	Y	Y								Y	Y		
		EPA 1699	MLA-028																		Y							
		SGS AXYS MLA-028	MLA-028	Y					Y	Y							Y			Y	Y					Y		
		SGS AXYS MLA-007	MLA-007						Y	Y										Y								
		SGS AXYS MLA-228	MLA-228						Y	Y							Y			Y	Y						Y	
	Hexachlorobenzene	EPA 1625	MLA-007																									
		EPA 8270	MLA-007								Y	Y			Y	Y	Y								Y			
		EPA 1699	MLA-028								Y										Y							
		SGS AXYS MLA-028	MLA-028	Y						Y							Y			Y	Y					Y		
		SGS AXYS MLA-007	MLA-007						Y	Y										Y								
		SGS AXYS MLA-228	MLA-228						Y	Y							Y			Y	Y						Y	
	Methoxychlor	EPA 608	MLA-007																									
		EPA 8081	MLA-007									Y	Y		Y	Y	Y								Y	Y		
		EPA 1699	MLA-028								Y											Y						
		SGS AXYS MLA-028	MLA-028	Y					Y	Y							Y			Y	Y					Y		
SGS AXYS MLA-007		MLA-007						Y	Y										Y									
SGS AXYS MLA-228		MLA-228						Y	Y							Y			Y	Y						Y		
Mirex	EPA 8270	MLA-007													Y	Y												
	EPA 1699	MLA-028									Y									Y					Y			
	SGS AXYS MLA-028	MLA-028	Y					Y	Y							Y			Y	Y					Y			
	SGS AXYS MLA-007	MLA-007						Y	Y										Y									
	SGS AXYS MLA-228	MLA-228						Y	Y							Y			Y	Y						Y		
	EPA 8270	MLA-007																										
Oxychlorane	EPA 1699	MLA-028								Y											Y							
	SGS AXYS MLA-028	MLA-028	Y					Y	Y							Y			Y	Y					Y			
	SGS AXYS MLA-007	MLA-007						Y	Y										Y									
	SGS AXYS MLA-228	MLA-228						Y	Y							Y			Y	Y						Y		
	EPA 8270	MLA-007																										
	EPA 1699	MLA-028								Y										Y								
Toxaphene	SGS AXYS MLA-028	MLA-028						Y	Y							Y			Y	Y						Y		
	SGS AXYS MLA-007	MLA-007						Y	Y										Y									
	SGS AXYS MLA-228	MLA-228						Y	Y							Y			Y	Y						Y		
	EPA 8270	MLA-007														Y												
	EPA 1699	MLA-028								Y										Y								
	SGS AXYS MLA-028	MLA-028	Y					Y	Y							Y			Y	Y					Y			
trans-Chlordane (gamma-Chlordane)	SGS AXYS MLA-007	MLA-007						Y	Y										Y									
	EPA 8270	MLA-007								Y	Y			Y		Y								Y				
	EPA 1699	MLA-028																		Y								
	SGS AXYS MLA-028	MLA-028	Y					Y	Y							Y			Y	Y					Y			
	SGS AXYS MLA-007	MLA-007						Y	Y										Y									
	SGS AXYS MLA-228	MLA-228						Y	Y							Y			Y	Y						Y		
trans-Nonachlor	EPA 8270	MLA-007														Y												
	EPA 1699	MLA-028																		Y								
	SGS AXYS MLA-028	MLA-028	Y					Y	Y							Y			Y	Y					Y			
	SGS AXYS MLA-007	MLA-007						Y	Y										Y									
	SGS AXYS MLA-228	MLA-228						Y	Y							Y			Y	Y						Y		

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	Alaska DEC	ANAB DsoD **	ANAB ISO 17025	CALA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Tissue and Tissue Flora	ANAB DsoD **	ANAB ISO 17025	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	Urine	Water	Water, Non-Portable	ANAB DsoD **	ANAB ISO 17025	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DsoD **	AFF	ANAB ISO 17025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
PCB congeners	PCB Aroclor 1016/1242 PCB Aroclor 1221	EPA 8270	MLA-007							Y			<	<																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

SGS AXYS Analytical Services Ltd.
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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID			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
	PCB 104 2,2',4,6,6'-Pentachlorobiphenyl	EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y	Y			Y						Y			
		EPA 8270	MLA-007																										
		SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y					Y			
		SGS AXYS MLA-210	MLA-210						Y	Y										Y	Y								
	PCB 105 2,3,3',4,4'-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908								Y				Y	Y						Y				Y	Y		
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y			Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y								
		SGS AXYS MLA-210	MLA-210						Y	Y							Y			Y	Y						Y		
	PCB 105/127	SGS AXYS MLA-908	MLA-908								Y						Y					Y					Y	Y	
		EPA 8270	MLA-007														Y												
		SGS AXYS MLA-007	MLA-007						Y											Y									
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y					Y	Y	Y	Y	
	PCB 106 2,3,3',4,5-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y								
		SGS AXYS MLA-210	MLA-210						Y											Y	Y						Y		
		SGS AXYS MLA-908	MLA-908								Y				Y	Y						Y				Y	Y		
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y			Y	Y	Y	Y	
	PCB 107 2,3,3',4',5-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y					Y	Y		
		SGS AXYS MLA-210	MLA-210						Y	Y										Y	Y						Y		
		SGS AXYS MLA-908	MLA-908								Y					Y	Y					Y				Y	Y		
		EPA 1668	MLA-010								Y											Y				Y	Y		
	PCB 107/109	EPA 8270	MLA-007														Y										Y	Y	
		SGS AXYS MLA-007	MLA-007								Y									Y									
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y					Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y						Y		
	PCB 109 2,3,3',4,6-Pentachlorobiphenyl	SGS AXYS MLA-210	MLA-210						Y	Y										Y	Y								
		SGS AXYS MLA-908	MLA-908								Y				Y	Y						Y				Y	Y		
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y					Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y					Y	Y		
	PCB 11 3,3'-Dichlorobiphenyl	SGS AXYS MLA-210	MLA-210						Y	Y										Y	Y						Y		
		SGS AXYS MLA-908	MLA-908								Y				Y	Y						Y				Y	Y		
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y					Y	Y	Y	Y	
		EPA 8270	MLA-007																										
	PCB 110 2,3,3',4',6-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y								
		SGS AXYS MLA-210	MLA-210						Y	Y										Y	Y						Y		
		SGS AXYS MLA-908	MLA-908								Y				Y	Y						Y				Y	Y		
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y					Y	Y	Y	Y	
	PCB 111 2,3,3',5,5'-Pentachlorobiphenyl	EPA 8270	MLA-007																										
		SGS AXYS MLA-010	MLA-010	Y					Y	Y				Y	Y	Y	Y					Y			Y	Y	Y	Y	
		SGS AXYS MLA-210	MLA-210						Y	Y										Y	Y						Y		
		SGS AXYS MLA-908	MLA-908								Y				Y	Y						Y				Y	Y		
	PCB 111/117	EPA 8270	MLA-007																										
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y			Y	Y	Y	Y	
		EPA 8270	MLA-007																										
		SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y								
	PCB 112 2,3,3',5,6-Pentachlorobiphenyl	SGS AXYS MLA-210	MLA-210						Y	Y										Y	Y						Y		
		SGS AXYS MLA-908	MLA-908								Y				Y	Y						Y				Y	Y		
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y			Y	Y	Y	Y	
		EPA 8270	MLA-007																										
PCB 113 2,3,3',5',6-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y									
	SGS AXYS MLA-210	MLA-210						Y	Y										Y	Y						Y			
	SGS AXYS MLA-908	MLA-908								Y				Y	Y						Y				Y	Y			
	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y			Y	Y	Y	Y		
PCB 114 2,3,4,4',5-Pentachlorobiphenyl	EPA 8270	MLA-007								Y	Y		Y	Y	Y	Y					Y			Y	Y	Y	Y		
	SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y									
	SGS AXYS MLA-007	MLA-007						Y											Y										
	SGS AXYS MLA-210	MLA-210						Y	Y										Y	Y						Y			
PCB 115 2,3,4,4',6-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908								Y				Y	Y						Y				Y	Y			
	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y			Y	Y	Y	Y		
	SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y						Y			
	SGS AXYS MLA-210	MLA-210						Y	Y										Y	Y						Y			

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Solids	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	Tissue and Tissue Flora	ANAB DoD **	ANAB ISO 17025	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	Urine	Water	Water, Non-Portable	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 **	AFFF	ANAB ISO 17025		
		SGS AXYS MLA-908	MLA-908								Y											Y																							
	PCB 116 2,3,4,5,6-Pentachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y							Y																							
		SGS AXYS MLA-010	MLA-010	Y					Y	Y												Y	Y				Y																		
		SGS AXYS MLA-210	MLA-210						Y													Y	Y				Y																		
		SGS AXYS MLA-908	MLA-908								Y														Y																				
	PCB 117 2,3,4',5,6-Pentachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y																							
		SGS AXYS MLA-010	MLA-010	Y					Y	Y												Y	Y				Y																		
		SGS AXYS MLA-210	MLA-210						Y													Y	Y				Y																		
		SGS AXYS MLA-908	MLA-908								Y														Y																				
	PCB 118 2,3',4',5-Pentachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y																							
		SGS AXYS MLA-010	MLA-010	Y					Y	Y												Y	Y				Y																		
		SGS AXYS MLA-901	MLA-901	Y																																									
		SGS AXYS MLA-210	MLA-210						Y	Y												Y	Y				Y																		
		SGS AXYS MLA-908	MLA-908								Y														Y																				
	PCB 118/106	EPA 8270	MLA-007																																										
		SGS AXYS MLA-007	MLA-007						Y													Y					Y																		
	PCB 119 2,3',4',6-Pentachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y					Y																		
		EPA 8270	MLA-007																																										
		SGS AXYS MLA-010	MLA-010	Y					Y	Y												Y	Y				Y																		
		SGS AXYS MLA-210	MLA-210						Y	Y												Y	Y				Y																		
		SGS AXYS MLA-908	MLA-908								Y														Y																				
	PCB 12 3,4-Dichlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y																							
		SGS AXYS MLA-010	MLA-010	Y					Y	Y												Y	Y				Y																		
		SGS AXYS MLA-210	MLA-210						Y													Y					Y																		
		SGS AXYS MLA-908	MLA-908								Y														Y																				
	PCB 12/13	EPA 8270	MLA-007																																										
	PCB 120 2,3',4,5,5'-Pentachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y																							
		SGS AXYS MLA-010	MLA-010	Y					Y	Y												Y	Y				Y																		
		SGS AXYS MLA-210	MLA-210						Y	Y																	Y																		
		SGS AXYS MLA-908	MLA-908								Y														Y																				
	PCB 121 2,3',4,5',6-Pentachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y																							
		SGS AXYS MLA-010	MLA-010	Y					Y	Y												Y	Y				Y																		
		SGS AXYS MLA-210	MLA-210						Y	Y												Y	Y				Y																		
		SGS AXYS MLA-908	MLA-908								Y														Y																				
	PCB 122 2,3',3',4',5'-Pentachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y																							
		EPA 8270	MLA-007																																										
		SGS AXYS MLA-010	MLA-010	Y					Y	Y												Y	Y				Y																		
		SGS AXYS MLA-210	MLA-210						Y	Y																	Y																		
		SGS AXYS MLA-908	MLA-908								Y											Y				Y																			
	PCB 123 2,3',4,4',5'-Pentachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y																							
		EPA 8270	MLA-007																																										
		SGS AXYS MLA-010	MLA-010	Y					Y	Y												Y	Y				Y																		
		SGS AXYS MLA-210	MLA-210						Y	Y												Y					Y																		
		SGS AXYS MLA-908	MLA-908								Y																																		
	PCB 124 2,3',4',5'-Pentachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y																							
		EPA 8270	MLA-007																																										
		SGS AXYS MLA-010	MLA-010	Y					Y	Y												Y	Y				Y																		
		SGS AXYS MLA-210	MLA-210						Y	Y												Y	Y				Y																		
		SGS AXYS MLA-908	MLA-908								Y																																		
	PCB 125 2,3',4',5',6-Pentachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y																							
		EPA 8270	MLA-007																																										
		SGS AXYS MLA-010	MLA-010	Y					Y	Y												Y	Y				Y																		
		SGS AXYS MLA-210	MLA-210						Y	Y												Y	Y				Y																		
		SGS AXYS MLA-908	MLA-908								Y																																		
	PCB 126 3,3',4,4',5-Pentachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y																							
		EPA 8270	MLA-007																																										
		SGS AXYS MLA-010	MLA-010	Y																																									

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	Alaska DEC	ANAB DsD **	ANAB ISO 17025	CALA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB DsD **	ANAB ISO 17025	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DsD **	ANAB ISO 17025	AFF
	PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl	EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y			Y										
		EPA 8270	MLA-007																										
		SGS AXYS MLA-010	MLA-010	Y					Y	Y										Y	Y								
		SGS AXYS MLA-007	MLA-007																	Y									
		SGS AXYS MLA-210	MLA-210							Y	Y				Y						Y					Y	Y		
	PCB 129 2,2',3,3',4,5'-Hexachlorobiphenyl	SGS AXYS MLA-908	MLA-908							Y					Y	Y						Y		Y	Y	Y	Y	Y	
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y									
		EPA 8270	MLA-007														Y												
		SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y								
		SGS AXYS MLA-007	MLA-007																	Y									
	PCB 13 3,4'-Dichlorobiphenyl	SGS AXYS MLA-210	MLA-210						Y	Y					Y							Y				Y	Y		
		SGS AXYS MLA-908	MLA-908							Y					Y	Y					Y			Y	Y	Y	Y		
		EPA 1668	MLA-010							Y	Y			Y	Y	Y	Y			Y				Y	Y	Y	Y		
		SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y								
		SGS AXYS MLA-210	MLA-210							Y	Y				Y							Y				Y	Y		
	PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl	SGS AXYS MLA-908	MLA-908											Y	Y							Y			Y	Y	Y	Y	
		EPA 1668	MLA-010								Y			Y	Y	Y	Y			Y									
		EPA 8270	MLA-007														Y												
		SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y								
		SGS AXYS MLA-007	MLA-007																	Y									
	PCB 131 2,2',3,3',4,6'-Hexachlorobiphenyl	SGS AXYS MLA-210	MLA-210								Y				Y							Y				Y	Y		
		SGS AXYS MLA-908	MLA-908												Y	Y								Y	Y	Y	Y		
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y				Y	Y	Y	Y		
		SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y								
		SGS AXYS MLA-210	MLA-210							Y	Y				Y							Y				Y	Y		
	PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl	SGS AXYS MLA-908	MLA-908												Y	Y						Y			Y	Y	Y		
		EPA 8270	MLA-007																										
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y				Y	Y	Y	Y		
		SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y								
		SGS AXYS MLA-210	MLA-210							Y	Y				Y							Y				Y	Y		
	PCB 132/168	SGS AXYS MLA-908	MLA-908												Y	Y						Y			Y	Y	Y		
		EPA 8270	MLA-007																										
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y				Y	Y	Y	Y		
		EPA 8270	MLA-007														Y												
		SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y								
	PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl	SGS AXYS MLA-210	MLA-210											Y								Y				Y	Y		
		SGS AXYS MLA-908	MLA-908								Y				Y	Y								Y	Y	Y	Y		
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y				Y	Y	Y	Y		
		SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y								
		SGS AXYS MLA-210	MLA-210												Y							Y				Y	Y		
	PCB 134 2,2',3,3',5,6'-Hexachlorobiphenyl	SGS AXYS MLA-908	MLA-908												Y	Y								Y	Y	Y	Y		
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y				Y	Y	Y	Y		
		SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y								
		SGS AXYS MLA-210	MLA-210							Y	Y				Y							Y				Y	Y		
		SGS AXYS MLA-908	MLA-908												Y	Y						Y				Y	Y		
	PCB 134/143	EPA 8270	MLA-007														Y												
		SGS AXYS MLA-007	MLA-007							Y										Y									
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y				Y	Y	Y	Y		
		SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y								
		SGS AXYS MLA-210	MLA-210												Y							Y				Y	Y		
PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl	SGS AXYS MLA-908	MLA-908												Y	Y								Y	Y	Y	Y			
	EPA 8270	MLA-007																											
	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y				Y	Y	Y	Y			
	SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y									
	SGS AXYS MLA-210	MLA-210												Y							Y				Y	Y			
PCB 136 2,2',3,3',5,6'-Hexachlorobiphenyl	SGS AXYS MLA-908	MLA-908												Y	Y								Y	Y	Y	Y			
	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y				Y	Y	Y	Y			
	EPA 8270	MLA-007														Y													
	SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y									
	SGS AXYS MLA-007	MLA-007																	Y										
PCB 137 2,2',3,4,4',5'-Hexachlorobiphenyl	SGS AXYS MLA-210	MLA-210							Y	Y				Y							Y				Y	Y			
	SGS AXYS MLA-908	MLA-908												Y	Y						Y				Y	Y			
	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y				Y	Y	Y	Y			
	EPA 8270	MLA-007														Y													
	SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y									
PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl	SGS AXYS MLA-007	MLA-007																			Y								
	SGS AXYS MLA-210	MLA-210												Y											Y	Y			
	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y			Y				Y	Y	Y	Y			
	SGS AXYS MLA-010	MLA-010	Y						Y	Y									Y	Y									
	SGS AXYS MLA-901	MLA-901	Y																										
	SGS AXYS MLA-210	MLA-210							Y	Y															Y	Y			

Accreditation Scope

SGS AXYS Analytical Services Ltd.

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum Solids	ANAB DCoD **													Tissue and Tissue Flora					Urine	Water	Water, Non-Potable													AFFF
					CALA	Alaska DEC	ANAB DCoD **	ANAB ISO 17025	CALA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB DCoD **	ANAB ISO 17025	CALA	Florida DOH	Minnesota DOH			New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DCoD **	ANAB ISO 17025							
	PCB 138/163/164	SGS AXYS MLA-908	MLA-908																																			
		EPA 8270	MLA-007																																			
		SGS AXYS MLA-007	MLA-007																																			
	PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl	EPA 1668	MLA-010																																			
		SGS AXYS MLA-010	MLA-010	Y																																		
		SGS AXYS MLA-210	MLA-210																																			
		SGS AXYS MLA-908	MLA-908																																			
	PCB 14 3,5-Dichlorobiphenyl	EPA 1668	MLA-010																																			
		EPA 8270	MLA-007																																			
		SGS AXYS MLA-010	MLA-010	Y																																		
		SGS AXYS MLA-210	MLA-210																																			
	PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl	SGS AXYS MLA-908	MLA-908																																			
		EPA 1668	MLA-010																																			
		EPA 8270	MLA-007																																			
		SGS AXYS MLA-010	MLA-010	Y																																		
	PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl	SGS AXYS MLA-210	MLA-210																																			
		SGS AXYS MLA-908	MLA-908																																			
		EPA 1668	MLA-010																																			
		EPA 8270	MLA-007																																			
	PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y																																		
		SGS AXYS MLA-007	MLA-007																																			
		SGS AXYS MLA-210	MLA-210																																			
		SGS AXYS MLA-908	MLA-908																																			
	PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl	EPA 1668	MLA-010																																			
		SGS AXYS MLA-010	MLA-010	Y																																		
		SGS AXYS MLA-210	MLA-210																																			
		SGS AXYS MLA-908	MLA-908																																			
	PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl	EPA 1668	MLA-010																																			
		SGS AXYS MLA-010	MLA-010	Y																																		
		SGS AXYS MLA-210	MLA-210																																			
		SGS AXYS MLA-908	MLA-908																																			
	PCB 144/135	EPA 8270	MLA-007																																			
		SGS AXYS MLA-007	MLA-007																																			
		EPA 1668	MLA-010																																			
		EPA 8270	MLA-007																																			
	PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y																																		
		SGS AXYS MLA-210	MLA-210																																			
		SGS AXYS MLA-908	MLA-908																																			
		EPA 1668	MLA-010																																			
	PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl	EPA 8270	MLA-007																																			
		SGS AXYS MLA-010	MLA-010	Y																																		
		SGS AXYS MLA-007	MLA-007																																			
		SGS AXYS MLA-901	MLA-901	Y																																		
	PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl	SGS AXYS MLA-210	MLA-210																																			
		SGS AXYS MLA-908	MLA-908																																			
		EPA 1668	MLA-010																																			
		EPA 8270	MLA-007																																			
	PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y																																		
SGS AXYS MLA-210		MLA-210																																				
SGS AXYS MLA-908		MLA-908																																				
EPA 1668		MLA-010																																				
PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl	EPA 8270	MLA-007																																				
	SGS AXYS MLA-010	MLA-010	Y																																			
	SGS AXYS MLA-210	MLA-210																																				
	SGS AXYS MLA-908	MLA-908																																				
PCB 149/139	EPA 1668	MLA-010																																				
	SGS AXYS MLA-010	MLA-010	Y																																			

[illegible]

Accreditation Scope

SGS AXYS Analytical Services Ltd.

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Accreditation Scope				Serum		Solids										Tissue and Tissue Flora		Urine		Water		Water, Non-Portable		AFF				
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	Alaska DEC	ANAB DsD **	ANAB ISO 17025	CALA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB DsD **	ANAB ISO 17025	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DsD **	ANAB ISO 17025
PCB 16 2,2',3'-Trichlorobiphenyl		SGS AXYS MLA-908	MLA-908							Y					Y	Y				Y				Y	Y	Y	Y	
		EPA 1668	MLA-010								Y	Y		Y	Y					Y				Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y			Y	Y											Y	Y								
		SGS AXYS MLA-210	MLA-210				Y	Y											Y	Y				Y	Y	Y	Y	
PCB 16/32		SGS AXYS MLA-908	MLA-908							Y					Y	Y				Y				Y	Y	Y	Y	
		EPA 8270	MLA-007													Y												
		SGS AXYS MLA-007	MLA-007				Y												Y									
		EPA 1668	MLA-010					Y											Y									
PCB 160 2,3,3',4,5,6-Hexachlorobiphenyl		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y			Y	Y											Y	Y			Y	Y	Y	Y		
		SGS AXYS MLA-210	MLA-210				Y	Y							Y				Y	Y				Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908					Y							Y	Y				Y				Y	Y	Y	Y	
PCB 161 2,3,3',4,5',6-Hexachlorobiphenyl		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				Y	Y	Y	Y	
		EPA 8270	MLA-007													Y												
		SGS AXYS MLA-010	MLA-010	Y			Y	Y											Y	Y				Y				
		SGS AXYS MLA-210	MLA-210				Y	Y							Y				Y	Y				Y	Y	Y	Y	
PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl		SGS AXYS MLA-908	MLA-908							Y					Y	Y				Y				Y	Y	Y	Y	
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				Y	Y	Y	Y	
		EPA 8270	MLA-007																									
		SGS AXYS MLA-010	MLA-010	Y			Y	Y											Y	Y				Y	Y	Y	Y	
PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl		SGS AXYS MLA-210	MLA-210							Y					Y					Y				Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908							Y					Y	Y				Y				Y	Y	Y	Y	
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y			Y	Y											Y	Y				Y	Y	Y	Y	
PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl		SGS AXYS MLA-210	MLA-210							Y					Y					Y				Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908							Y					Y	Y				Y				Y	Y	Y	Y	
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y			Y	Y											Y	Y				Y	Y	Y	Y	
PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl		SGS AXYS MLA-210	MLA-210							Y					Y					Y				Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908							Y					Y	Y				Y				Y	Y	Y	Y	
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y			Y	Y											Y	Y				Y	Y	Y	Y	
PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl		SGS AXYS MLA-210	MLA-210							Y	Y				Y					Y				Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908							Y					Y	Y				Y				Y	Y	Y	Y	
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y			Y	Y											Y	Y				Y	Y	Y	Y	
PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl		SGS AXYS MLA-210	MLA-210							Y					Y					Y				Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908							Y					Y	Y				Y				Y	Y	Y	Y	
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y			Y	Y											Y	Y				Y	Y	Y	Y	
PCB 168 2,3',4,4',5',6-Hexachlorobiphenyl		SGS AXYS MLA-210	MLA-210							Y					Y					Y				Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908							Y					Y	Y				Y				Y	Y	Y	Y	
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y			Y	Y											Y	Y				Y	Y	Y	Y	
PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl		SGS AXYS MLA-210	MLA-210							Y					Y					Y				Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908							Y					Y	Y				Y				Y	Y	Y	Y	
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y			Y	Y											Y	Y				Y	Y	Y	Y	
PCB 17 2,2',4-Trichlorobiphenyl		SGS AXYS MLA-210	MLA-210							Y					Y					Y				Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908							Y					Y	Y				Y				Y	Y	Y	Y	
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				Y	Y	Y	Y	
		SGS AXYS MLA-010	MLA-010	Y			Y	Y											Y	Y				Y	Y	Y	Y	
PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl		SGS AXYS MLA-210	MLA-210							Y					Y					Y				Y	Y	Y	Y	
		SGS AXYS MLA-901	MLA-901	Y						Y	Y									Y				Y	Y	Y	Y	
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				Y	Y	Y	Y	
		SGS AXYS MLA-210	MLA-210						Y	Y									Y	Y				Y	Y	Y	Y	

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Accreditation Scope				SGS AXYS Analytical Services Ltd.																									
file ref.: ACC-103 Rev. 57																													
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Seum	Solids	Tissue and Tissue Flora														Urine	Water	Water, Non-Portable	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	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DoD **	ANAB ISO 17025	
	Compound	SGS AXYS MLA-010	MLA-010	Y		Y	Y									Y	Y												
		SGS AXYS MLA-007	MLA-007			Y																							
		SGS AXYS MLA-901	MLA-901	Y													Y												
		SGS AXYS MLA-210	MLA-210			Y	Y							Y				Y					Y	Y	Y	Y	Y		
		SGS AXYS MLA-908	MLA-908					Y				Y	Y					Y	Y				Y	Y	Y	Y	Y		
	PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl	EPA 1668	MLA-010				Y	Y			Y	Y	Y	Y				Y					Y	Y					
		SGS AXYS MLA-010	MLA-010	Y		Y	Y										Y	Y					Y						
		SGS AXYS MLA-210	MLA-210			Y	Y						Y					Y					Y	Y	Y	Y	Y		
		SGS AXYS MLA-908	MLA-908					Y				Y	Y					Y	Y				Y	Y	Y	Y	Y		
		EPA 1668	MLA-010					Y	Y		Y	Y	Y	Y				Y	Y				Y	Y	Y	Y	Y		
	PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y		Y	Y										Y	Y					Y						
		SGS AXYS MLA-210	MLA-210			Y	Y						Y					Y					Y						
		SGS AXYS MLA-908	MLA-908					Y				Y	Y					Y	Y				Y	Y	Y	Y	Y		
		EPA 1668	MLA-010					Y	Y		Y	Y	Y	Y				Y	Y				Y	Y	Y	Y	Y		
		EPA 8270	MLA-007											Y															
	PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y		Y	Y											Y	Y				Y						
		SGS AXYS MLA-007	MLA-007			Y												Y											
		SGS AXYS MLA-210	MLA-210			Y	Y						Y					Y					Y						
		SGS AXYS MLA-908	MLA-908					Y				Y	Y					Y	Y				Y	Y	Y	Y	Y		
		EPA 1668	MLA-010					Y	Y		Y	Y	Y	Y				Y	Y				Y	Y	Y	Y	Y		
	PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl	EPA 8270	MLA-007																										
		SGS AXYS MLA-010	MLA-010	Y		Y	Y											Y	Y				Y						
		SGS AXYS MLA-210	MLA-210			Y	Y							Y				Y					Y						
		SGS AXYS MLA-908	MLA-908					Y				Y	Y					Y	Y				Y	Y	Y	Y	Y		
		EPA 1668	MLA-010					Y	Y		Y	Y	Y	Y				Y	Y				Y	Y	Y	Y	Y		
	PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl	EPA 8270	MLA-007												Y														
		SGS AXYS MLA-010	MLA-010	Y		Y	Y											Y	Y				Y						
		SGS AXYS MLA-007	MLA-007			Y												Y											
		SGS AXYS MLA-210	MLA-210			Y	Y						Y					Y					Y						
		SGS AXYS MLA-908	MLA-908					Y				Y	Y					Y	Y				Y	Y	Y	Y	Y		
	PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl	EPA 1668	MLA-010					Y	Y		Y	Y	Y	Y				Y	Y				Y	Y	Y	Y	Y		
		EPA 8270	MLA-007																										
		SGS AXYS MLA-010	MLA-010	Y		Y	Y											Y	Y				Y						
		SGS AXYS MLA-210	MLA-210			Y	Y						Y					Y					Y						
		SGS AXYS MLA-908	MLA-908					Y				Y	Y					Y	Y				Y	Y	Y	Y	Y		
	PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl	EPA 1668	MLA-010					Y	Y		Y	Y	Y	Y									Y	Y	Y	Y	Y		
		SGS AXYS MLA-010	MLA-010	Y		Y	Y											Y	Y				Y						
		SGS AXYS MLA-901	MLA-901	Y																									
		SGS AXYS MLA-210	MLA-210			Y	Y						Y					Y					Y						
		SGS AXYS MLA-908	MLA-908					Y				Y	Y					Y	Y				Y	Y	Y	Y	Y		
	PCB 187/182	EPA 8270	MLA-007												Y														
		SGS AXYS MLA-007	MLA-007				Y											Y					Y						
		EPA 1668	MLA-010					Y	Y		Y	Y	Y	Y					Y				Y	Y	Y	Y	Y		
		EPA 8270	MLA-007																										
		SGS AXYS MLA-010	MLA-010	Y		Y	Y											Y	Y				Y						
	PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl	SGS AXYS MLA-210	MLA-210			Y	Y						Y					Y					Y						
		SGS AXYS MLA-908	MLA-908					Y					Y	Y				Y	Y				Y						
		EPA 1668	MLA-010					Y	Y		Y	Y	Y	Y					Y				Y	Y	Y	Y	Y		
EPA 8270		MLA-007											Y																
SGS AXYS MLA-010		MLA-010	Y		Y	Y											Y	Y				Y							
PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl	SGS AXYS MLA-007	MLA-007			Y												Y												
	SGS AXYS MLA-210	MLA-210			Y	Y							Y					Y				Y							
	SGS AXYS MLA-908	MLA-908					Y					Y	Y					Y				Y	Y	Y	Y	Y			
	EPA 1668	MLA-010					Y	Y		Y	Y	Y	Y					Y				Y	Y	Y	Y	Y			
	EPA 8270	MLA-007											Y																
PCB 19 2,2',6-Trichlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y		Y	Y											Y	Y				Y							
	SGS AXYS MLA-007	MLA-007			Y												Y												
	SGS AXYS MLA-210	MLA-210			Y	Y						Y						Y				Y							
	SGS AXYS MLA-908	MLA-908					Y					Y	Y					Y				Y	Y	Y	Y	Y			
	EPA 1668	MLA-010					Y	Y		Y	Y	Y	Y					Y				Y	Y	Y	Y	Y			
PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl	EPA 8270	MLA-007												Y															
	SGS AXYS MLA-010	MLA-010	Y		Y	Y											Y	Y				Y							
	SGS AXYS MLA-007	MLA-007			Y												Y												
	SGS AXYS MLA-210	MLA-210			Y	Y						Y						Y				Y							
	SGS AXYS MLA-908	MLA-908					Y					Y	Y					Y				Y	Y	Y	Y	Y			
PCB 191 2,3,3',4,4',5',6-Heptachlorobiphenyl	EPA 1668	MLA-010					Y	Y		Y	Y	Y	Y				Y					Y	Y	Y	Y	Y			
	SGS AXYS MLA-010	MLA-010	Y		Y	Y											Y	Y				Y							
	SGS AXYS MLA-210	MLA-210			Y	Y							Y					Y				Y							
	SGS AXYS MLA-908	MLA-908					Y					Y	Y					Y				Y	Y	Y	Y	Y			
	EPA 1668	MLA-010					Y	Y		Y	Y	Y	Y				Y					Y	Y	Y	Y	Y			

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Accreditation Scope				Serum	Solids												Tissue and Tissue Flora	Urine	Water	Water, Non-Portable												AFFF
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID		CALA	Alaska DEC	ANAB DdD **	ANAB ISO 17025	CALA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS				Washington DE	ANAB DdD **	ANAB ISO 17025	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DdD **	
	PCB 192 2,3,3',4',5,5',6-Heptachlorobiphenyl	EPA 8270	MLA-007																													
		SGS AXYS MLA-010	MLA-010	Y					Y	Y																						
		SGS AXYS MLA-007	MLA-007						Y																							
		SGS AXYS MLA-210	MLA-210						Y	Y																						
		SGS AXYS MLA-908	MLA-908								Y				Y	Y																
	PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl	EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y															
		SGS AXYS MLA-010	MLA-010	Y					Y	Y																						
		SGS AXYS MLA-210	MLA-210						Y	Y																						
		SGS AXYS MLA-908	MLA-908								Y				Y	Y																
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y															
	PCB 194 2,2',3,3',4',4',5,5'-Octachlorobiphenyl	EPA 8270	MLA-007																													
		SGS AXYS MLA-010	MLA-010	Y					Y	Y																						
		SGS AXYS MLA-007	MLA-007						Y																							
		SGS AXYS MLA-210	MLA-210						Y	Y																						
		SGS AXYS MLA-901	MLA-901	Y																												
	PCB 195 2,2',3,3',4',4',5,6-Octachlorobiphenyl	SGS AXYS MLA-210	MLA-210						Y	Y																						
		SGS AXYS MLA-908	MLA-908								Y				Y	Y																
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y															
		EPA 8270	MLA-007																													
		SGS AXYS MLA-010	MLA-010	Y					Y	Y																						
	PCB 196 2,2',3,3',4',4',5,6'-Octachlorobiphenyl	SGS AXYS MLA-007	MLA-007						Y																							
		SGS AXYS MLA-210	MLA-210						Y	Y																						
		SGS AXYS MLA-908	MLA-908								Y				Y	Y																
		EPA 1668	MLA-010	Y					Y	Y					Y	Y	Y															
		SGS AXYS MLA-210	MLA-210						Y	Y					Y																	
	PCB 197 2,2',3,3',4',4',6,6'-Octachlorobiphenyl	SGS AXYS MLA-908	MLA-908												Y	Y																
		EPA 1668	MLA-010								Y				Y	Y	Y															
		EPA 8270	MLA-007	Y																												
		SGS AXYS MLA-010	MLA-010						Y	Y																						
		SGS AXYS MLA-210	MLA-210						Y	Y					Y																	
	PCB 198 2,2',3,3',4',5,5',6-Octachlorobiphenyl	SGS AXYS MLA-007	MLA-007																													
		SGS AXYS MLA-210	MLA-210								Y				Y	Y																
		SGS AXYS MLA-908	MLA-908								Y				Y	Y																
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y															
		EPA 8270	MLA-007																													
	PCB 199 2,2',3,3',4',5,5',6'-Octachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y					Y	Y																						
		SGS AXYS MLA-007	MLA-007						Y																							
		SGS AXYS MLA-210	MLA-210						Y	Y					Y																	
		SGS AXYS MLA-908	MLA-908								Y				Y	Y																
		EPA 1668	MLA-010								Y				Y	Y	Y															
	PCB 2 3-Chlorobiphenyl	EPA 8270	MLA-007								Y	Y		Y	Y	Y	Y															
		SGS AXYS MLA-010	MLA-010	Y					Y	Y																						
		SGS AXYS MLA-210	MLA-210								Y																					
		SGS AXYS MLA-908	MLA-908												Y	Y																
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y															
	PCB 20 2,3,3'-Trichlorobiphenyl	EPA 8270	MLA-007																													
		SGS AXYS MLA-010	MLA-010	Y					Y	Y																						
		SGS AXYS MLA-210	MLA-210						Y	Y																						
		SGS AXYS MLA-908	MLA-908								Y				Y	Y																
		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y															
	PCB 200 2,2',3,3',4',5,6,6'-Octachlorobiphenyl	EPA 8270	MLA-007																													
		SGS AXYS MLA-010	MLA-010	Y					Y	Y																						
		SGS AXYS MLA-908	MLA-908												Y	Y																

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

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	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	Tissue and Tissue Flora		Urine	Water	Water, Non-Portable		AFFF	
																	ANAB DoD **	ANAB ISO 17025			Alaska DEC	ANAB DoD **		ANAB ISO 17025
		SGS AXYS MLA-210	MLA-210					Y		Y						Y			Y					
		SGS AXYS MLA-908	MLA-908							Y						Y								
	PCB 23/34	EPA 8270	MLA-007													Y								
	PCB 24 2,3,6-Trichlorobiphenyl	EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				
		SGS AXYS MLA-010	MLA-010	Y				Y		Y									Y	Y		Y	Y	Y
		SGS AXYS MLA-210	MLA-210					Y		Y						Y								
		SGS AXYS MLA-908	MLA-908							Y					Y	Y			Y					
	PCB 24/27	EPA 8270	MLA-007													Y								
		SGS AXYS MLA-007	MLA-007					Y											Y					
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y				Y				
		EPA 8270	MLA-007														Y							
	PCB 25 2,3,4-Trichlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y				Y		Y									Y	Y		Y		
		SGS AXYS MLA-007	MLA-007					Y																
		SGS AXYS MLA-210	MLA-210					Y		Y						Y								
		SGS AXYS MLA-908	MLA-908							Y					Y	Y			Y					
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y								
	PCB 26 2,3,5-Trichlorobiphenyl	EPA 8270	MLA-007													Y								
		SGS AXYS MLA-010	MLA-010	Y				Y		Y									Y	Y		Y		
		SGS AXYS MLA-007	MLA-007					Y																
		SGS AXYS MLA-210	MLA-210							Y						Y								
		SGS AXYS MLA-908	MLA-908							Y					Y	Y			Y					
	PCB 27 2,3,6-Trichlorobiphenyl	EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y								
		SGS AXYS MLA-010	MLA-010	Y				Y		Y									Y	Y		Y		
		SGS AXYS MLA-007	MLA-007					Y																
		SGS AXYS MLA-210	MLA-210							Y					Y	Y								
		SGS AXYS MLA-908	MLA-908							Y					Y	Y			Y					
	PCB 28 2,4,4'-Trichlorobiphenyl	EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y								
		EPA 8270	MLA-007													Y								
		SGS AXYS MLA-010	MLA-010	Y				Y		Y									Y	Y		Y		
		SGS AXYS MLA-007	MLA-007					Y																
		SGS AXYS MLA-210	MLA-210					Y		Y					Y	Y								
	PCB 29 2,4,5-Trichlorobiphenyl	SGS AXYS MLA-908	MLA-908							Y				Y	Y									
		EPA 1668	MLA-010							Y			Y	Y	Y	Y								
		SGS AXYS MLA-010	MLA-010	Y				Y		Y									Y	Y		Y		
		SGS AXYS MLA-210	MLA-210					Y						Y	Y				Y					
		SGS AXYS MLA-908	MLA-908							Y				Y	Y				Y					
	PCB 3 4-Chlorobiphenyl	EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y								
		EPA 8270	MLA-007													Y								
		SGS AXYS MLA-010	MLA-010	Y				Y		Y									Y					
		SGS AXYS MLA-210	MLA-210					Y						Y	Y									
	PCB 30 2,4,6-Trichlorobiphenyl	SGS AXYS MLA-908	MLA-908							Y				Y	Y									
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y								
		SGS AXYS MLA-010	MLA-010	Y						Y									Y	Y		Y		
		SGS AXYS MLA-210	MLA-210							Y						Y								
		SGS AXYS MLA-908	MLA-908							Y					Y	Y			Y					
	PCB 31 2,4',5-Trichlorobiphenyl	EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y								
		EPA 8270	MLA-007													Y								
		SGS AXYS MLA-010	MLA-010	Y					Y		Y								Y	Y		Y		
		SGS AXYS MLA-007	MLA-007						Y															
		SGS AXYS MLA-210	MLA-210						Y							Y								
	PCB 32 2,4',6-Trichlorobiphenyl	SGS AXYS MLA-908	MLA-908													Y								
		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y								
		SGS AXYS MLA-010	MLA-010	Y					Y		Y								Y					
		SGS AXYS MLA-210	MLA-210						Y						Y									
		SGS AXYS MLA-908	MLA-908						Y						Y	Y			Y					
	PCB 33 2,3',4'-Trichlorobiphenyl	EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y								
		SGS AXYS MLA-010	MLA-010	Y					Y		Y								Y					
		SGS AXYS MLA-210	MLA-210						Y						Y									
		SGS AXYS MLA-908	MLA-908						Y						Y	Y			Y					
	PCB 33/20/21	EPA 8270	MLA-007													Y								
		SGS AXYS MLA-007	MLA-007					Y											Y					
		SGS AXYS MLA-210	MLA-210							Y	Y		Y	Y	Y	Y								
	PCB 34 2,3',5'-Trichlorobiphenyl	EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y								
		SGS AXYS MLA-010	MLA-010	Y					Y		Y								Y					
		SGS AXYS MLA-210	MLA-210						Y							Y								
		SGS AXYS MLA-908	MLA-908						Y						Y	Y			Y					

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Solids														Tissue and Tissue Flora	Urine	Water	Water, Non-Portable	AFF					
					CALA	Alaska DEC	ANAB DsO **	ANAB ISO 17025	CALA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB DsO **						ANAB ISO 17025	CALA	Florida DOH	Minnesota DOH	New Jersey DEP
	PCB 81 3,4,4',5-Tetrachlorobiphenyl	SGS AXYS MLA-908	MLA-908							Y								Y		Y								
		EPA 1668	MLA-010									Y	Y											Y				
		EPA 8270	MLA-007																									
		SGS AXYS MLA-010	MLA-010	Y						Y	Y								Y	Y		Y						
	PCB 82 2,2',3,3',4-Pentachlorobiphenyl	SGS AXYS MLA-210	MLA-210																Y		Y				Y	Y	Y	Y
		SGS AXYS MLA-908	MLA-908											Y	Y				Y		Y			Y	Y	Y	Y	
		EPA 1668	MLA-010								Y	Y							Y					Y	Y	Y	Y	
		EPA 8270	MLA-007																									
	PCB 83 2,2',3,3',5-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y						Y	Y								Y	Y								
		SGS AXYS MLA-210	MLA-210																Y		Y			Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908											Y	Y				Y		Y			Y	Y	Y	Y	
		EPA 1668	MLA-010								Y	Y							Y					Y	Y	Y	Y	
	PCB 84 2,2',3,3',6-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010																									
		SGS AXYS MLA-210	MLA-210																Y		Y			Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908																Y		Y			Y	Y	Y	Y	
		EPA 8270	MLA-007																									
	PCB 85 2,2',3,4,4'-Pentachlorobiphenyl	SGS AXYS MLA-007	MLA-007																									
		EPA 1668	MLA-010																									
		SGS AXYS MLA-010	MLA-010	Y							Y	Y							Y	Y				Y				
		SGS AXYS MLA-210	MLA-210																					Y	Y	Y	Y	
	PCB 86 2,2',3,4,5-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908																Y		Y				Y	Y	Y	Y
		EPA 8270	MLA-007																									
		SGS AXYS MLA-007	MLA-007																Y									
		EPA 1668	MLA-010																									
	PCB 87 2,2',3,4,5'-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y							Y	Y							Y	Y				Y	Y	Y	Y	
		SGS AXYS MLA-210	MLA-210																					Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908																Y		Y			Y	Y	Y	Y	
		EPA 8270	MLA-007																									
	PCB 88 2,2',3,4,6-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010																									
		SGS AXYS MLA-210	MLA-210	Y							Y	Y							Y	Y				Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908																					Y	Y	Y	Y	
		EPA 8270	MLA-007																									
	PCB 89 2,2',3,4,6'-Pentachlorobiphenyl	EPA 1668	MLA-010																									
		SGS AXYS MLA-010	MLA-010	Y							Y	Y							Y	Y				Y	Y	Y	Y	
		SGS AXYS MLA-210	MLA-210																					Y	Y	Y	Y	
		SGS AXYS MLA-908	MLA-908																									
	PCB 9 2,5-Dichlorobiphenyl	EPA 8270	MLA-007																									
		EPA 1668	MLA-010																									
		SGS AXYS MLA-010	MLA-010	Y							Y	Y							Y	Y				Y	Y	Y	Y	
		SGS AXYS MLA-210	MLA-210																					Y	Y	Y	Y	
	PCB 90 2,2',3,4',5-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908																									
		EPA 1668	MLA-010																									
		SGS AXYS MLA-010	MLA-010	Y							Y	Y							Y	Y				Y	Y	Y	Y	
		SGS AXYS MLA-210	MLA-210																					Y	Y	Y	Y	
	PCB 91 2,2',3,4',6-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908																									
		EPA 1668	MLA-010																									
		EPA 8270	MLA-007																									
		SGS AXYS MLA-010	MLA-010	Y							Y	Y							Y	Y				Y	Y	Y	Y	
PCB 92 2,2',3,5,5'-Pentachlorobiphenyl	SGS AXYS MLA-007	MLA-007																										
	EPA 1668	MLA-010																										
	EPA 8270	MLA-007																										
	SGS AXYS MLA-010	MLA-010	Y															Y	Y				Y	Y	Y	Y		

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Solids	Tissue and Tissue Flora	Urine	Water	Water, Non-Portable	AFF
				CALA	Alaska DEC ANAB DdD ** ANAB ISO 17025	CALA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE	ANAB DdD ** ANAB ISO 17025 CALA Florida DOH Minnesota DOH New Jersey DEP Virginia DGS	CALA CALA	Alaska DEC ANAB DdD ** ANAB ISO 17025 California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Pennsylvania DEP Virginia DGS Washington DE *	ANAB DdD ** ANAB ISO 17025
PCB 93 2,2',3,5,6-Pentachlorobiphenyl	EPA 1668 SGS AXYS MLA-010 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-908 MLA-010 MLA-210 MLA-908	MLA-908 MLA-010 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
PCB 94 2,2',3,5,6'-Pentachlorobiphenyl	EPA 1668 EPA 8270 SGS AXYS MLA-010 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-010 MLA-007 MLA-010 MLA-210 MLA-908	MLA-010 MLA-007 MLA-010 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
PCB 95 2,2',3,5',6-Pentachlorobiphenyl	EPA 1668 SGS AXYS MLA-010 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-010 MLA-010 MLA-210 MLA-908	MLA-010 MLA-010 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
PCB 95/93	EPA 8270 SGS AXYS MLA-007	MLA-007 MLA-007	MLA-007 MLA-007			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
PCB 96 2,2',3,6,6'-Pentachlorobiphenyl	EPA 1668 EPA 8270 SGS AXYS MLA-010 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-010 MLA-007 MLA-010 MLA-210 MLA-908	MLA-010 MLA-007 MLA-010 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
PCB 97 2,2',3,4',5'-Pentachlorobiphenyl	EPA 1668 SGS AXYS MLA-010 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-010 MLA-010 MLA-210 MLA-908	MLA-010 MLA-010 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
PCB 97/86	EPA 8270 SGS AXYS MLA-007	MLA-007 MLA-007	MLA-007 MLA-007			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
PCB 98 2,2',3,4',6'-Pentachlorobiphenyl	EPA 1668 SGS AXYS MLA-010 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-010 MLA-010 MLA-210 MLA-908	MLA-010 MLA-010 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
PCB 98/102	EPA 8270 EPA 1668 EPA 8270 SGS AXYS MLA-010 SGS AXYS MLA-007 SGS AXYS MLA-901 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-007 MLA-010 MLA-007 MLA-010 MLA-007 MLA-901 MLA-210 MLA-908	MLA-007 MLA-010 MLA-007 MLA-010 MLA-007 MLA-901 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
PCB 99 2,2',4,4',5-Pentachlorobiphenyl	EPA 1668 EPA 8270 SGS AXYS MLA-010 SGS AXYS MLA-007 SGS AXYS MLA-901 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-010 MLA-007 MLA-010 MLA-007 MLA-901 MLA-210 MLA-908	MLA-010 MLA-007 MLA-010 MLA-007 MLA-901 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
PCB congeners, total	EPA 1668 EPA 1668 SGS AXYS MLA-010 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-010 MLA-010 MLA-010 MLA-210 MLA-908	MLA-010 MLA-010 MLA-010 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
PCBs, as congeners	EPA 1668 EPA 1668 SGS AXYS MLA-010 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-010 MLA-010 MLA-010 MLA-210 MLA-908	MLA-010 MLA-010 MLA-010 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
Total Dichlorobiphenyls	EPA 8270 SGS AXYS MLA-010 SGS AXYS MLA-007 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
Total Heptachlorobiphenyls	EPA 8270 SGS AXYS MLA-010 SGS AXYS MLA-007 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
Total Hexachlorobiphenyls	EPA 8270 SGS AXYS MLA-010 SGS AXYS MLA-007 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
Total Monochlorobiphenyls	EPA 8270 SGS AXYS MLA-010 SGS AXYS MLA-007 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
Total Nonachlorobiphenyls	EPA 8270 SGS AXYS MLA-010 SGS AXYS MLA-007 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
Total Octachlorobiphenyls	EPA 8270 SGS AXYS MLA-010 SGS AXYS MLA-007 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y
Total Pentachlorobiphenyls	EPA 8270 SGS AXYS MLA-010 SGS AXYS MLA-007 SGS AXYS MLA-210 SGS AXYS MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908	MLA-007 MLA-010 MLA-007 MLA-210 MLA-908			Y	Y	Y	Y	Y
				Y	Y	Y	Y	Y	Y	Y

[illegible]

Accreditation Scope

SGS AXYS Analytical Services Ltd.

file ref.: ACC-103 Rev. 57

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Solids													Tissue and Tissue Flora	Urine	Water	Water, Non-Portable													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	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DoD **	ANAB ISO 17025						
Compound Class	2,3,7,8-TCDF	EPA 1613	MLA-017		<					Y						<				Y					<									
		EPA 8290	MLA-017	Y						Y	Y		Y	Y	Y						Y	Y			<									
		SGS AXYS MLA-017	MLA-017	Y				Y	Y											Y	Y													
		SGS AXYS MLA-217	MLA-217					Y	Y						Y					Y	Y					Y								
	OCDD	EPA 1613	MLA-017		Y				Y							Y				Y														
		EPA 8290	MLA-017	Y						Y	Y		Y	Y	Y						Y	Y			Y	Y								
		SGS AXYS MLA-017	MLA-017	Y				Y	Y											Y		Y	Y											
		SGS AXYS MLA-217	MLA-217					Y	Y						Y					Y	Y					Y								
	OCDF	EPA 1613	MLA-017		Y				Y							Y				Y			Y	Y		Y								
		EPA 8290	MLA-017	Y						Y	Y		Y	Y	Y						Y	Y			Y	Y								
		SGS AXYS MLA-017	MLA-017	Y				Y	Y											Y			Y											
		SGS AXYS MLA-217	MLA-217					Y	Y						Y					Y	Y					Y								
	Total HpCDD	EPA 1613	MLA-017		Y				Y											Y														
		EPA 8290	MLA-017	Y						Y	Y		Y		Y						Y	Y												
		SGS AXYS MLA-017	MLA-017							Y										Y														
		SGS AXYS MLA-217	MLA-217					Y	Y											Y						Y								
	Total HpCDF	EPA 1613	MLA-017	Y					Y											Y			Y	Y										
		EPA 8290	MLA-017	Y						Y	Y		Y		Y					Y						Y								
		SGS AXYS MLA-017	MLA-017							Y										Y														
		SGS AXYS MLA-217	MLA-217							Y										Y														
	Total HxCDD	EPA 1613	MLA-017	Y					Y											Y														
		EPA 8290	MLA-017	Y						Y	Y		Y		Y					Y						Y								
		SGS AXYS MLA-017	MLA-017							Y										Y														
		SGS AXYS MLA-217	MLA-217							Y										Y														
	Total HxCDF	EPA 1613	MLA-017	Y					Y											Y			Y	Y										
		EPA 8290	MLA-017	Y						Y	Y		Y		Y					Y						Y								
		SGS AXYS MLA-017	MLA-017							Y										Y														
		SGS AXYS MLA-217	MLA-217							Y										Y														
	Total PCDD	EPA 1613	MLA-017	Y					Y											Y														
		EPA 8290	MLA-017	Y						Y										Y														
		EPA 1613	MLA-017	Y						Y										Y														
		EPA 8290	MLA-017	Y							Y									Y														
	Total PCDD/F	EPA 1613	MLA-017	Y						Y										Y														
		EPA 8290	MLA-017	Y							Y									Y														
		EPA 1613	MLA-017	Y							Y									Y														
		EPA 8290	MLA-017	Y								Y								Y														
	Total PCDF	EPA 1613	MLA-017	Y						Y										Y														
		EPA 8290	MLA-017	Y							Y									Y														
		EPA 1613	MLA-017	Y							Y									Y														
		EPA 8290	MLA-017	Y								Y								Y														
	Total PeCDD	EPA 1613	MLA-017	Y						Y										Y			Y	Y										
		EPA 8290	MLA-017	Y							Y			Y		Y				Y						Y								
SGS AXYS MLA-017		MLA-017							Y										Y															
SGS AXYS MLA-217		MLA-217							Y										Y															
Total PeCDF	EPA 1613	MLA-017	Y						Y										Y			Y	Y											
	EPA 8290	MLA-017	Y							Y			Y		Y				Y						Y									
	SGS AXYS MLA-017	MLA-017							Y										Y															
	SGS AXYS MLA-217	MLA-217								Y									Y															
Total TCDD	EPA 1613	MLA-017	Y						Y										Y			Y	Y											
	EPA 8290	MLA-017	Y							Y			Y		Y				Y						Y									
	SGS AXYS MLA-017	MLA-017							Y										Y															
	SGS AXYS MLA-217	MLA-217								Y									Y															
Total TCDF	EPA 1613	MLA-017	Y						Y										Y			Y	Y											
	EPA 8290	MLA-017	Y							Y			Y		Y				Y						Y									
	SGS AXYS MLA-017	MLA-017							Y										Y															
	SGS AXYS MLA-217	MLA-217								Y									Y															
PFAS	"Per- and Polyfluorinated Alkyl Substances (PFAS)" category (CA only)		DoD QSM Version 5.1 (or r	MLA-110						Y																								
	11-chloroicosafafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS)		SGS AXYS MLA-110	MLA-110	Y		Y	Y								Y	Y			Y	Y				Y	Y								
	11-chloroicosafafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS)		SGS AXYS MLA-110	MLA-110	Y				Y								Y																	
	11-Chloroicosafafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)		SGS AXYS MLA-110	MLA-110						Y					Y				Y						Y									
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		DoD QSM Version 5.3	MLA-110		Y									Y				Y						Y									
	4,8-Dioxa-3H-perfluorononanoate (ADONA)		SGS AXYS MLA-110	MLA-110			Y	Y							Y	Y				Y	Y				Y	Y								
	4:2 Fluorotelomersulfonate (4:2 FTS)		DoD QSM Version 5.3	MLA-110	Y		Y	Y	Y		Y				Y				Y						Y	Y								
	6:2 Fluorotelomersulfonate (6:2 FTS)		DoD QSM Version 5.3	MLA-110	Y		Y	Y	Y		Y				Y				Y						Y	Y								
	8:2 Fluorotelomersulfonate (8:2 FTS)		DoD QSM Version 5.3	MLA-110	Y		Y	Y	Y		Y				Y				Y						Y	Y								
	9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS)		SGS AXYS MLA-110	MLA-110	Y		Y	Y							Y				Y															
	9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS)		SGS AXYS MLA-110	MLA-110	Y				Y							Y				Y						Y	Y							
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		SGS AXYS MLA-110	MLA-110			Y				Y								Y						Y									
	Dodecafluoro-3H-4,8-dioxanonanoate (ADONA)		DoD QSM Version 5.3	MLA-110	Y		Y								Y				Y						Y									
	Hexafluoropropylene oxide dimer acid (HFPO-DA)		SGS AXYS MLA-110	MLA-110	Y				Y						Y				Y						Y									
	Hexafluoropropylene oxide dimer acid, anion and acid (HFPO-DA)		DoD QSM Version 5.3	MLA-110		Y									Y					Y					Y									
			SGS AXYS MLA-110	MLA-110			Y	Y							Y	Y				Y	Y													

SGS **AXYS**

[illegible]

Accreditation Scope

SGS AXYS Analytical Services Ltd.

file ref.: ACC-103 Rev. 57

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	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *
	Atenolol	SGS AXYS MLA-075	MLA-075				Y																			
	Atorvastatin	SGS AXYS MLA-075	MLA-075				Y																			
	Azithromycin	EPA 1694	MLA-075						Y												Y					
		SGS AXYS MLA-075	MLA-075				Y																			
	Benzoylcegonine	SGS AXYS MLA-075	MLA-075				Y																			
	Benztropine	SGS AXYS MLA-075	MLA-075				Y																			
	Betamethasone	SGS AXYS MLA-075	MLA-075				Y																			
	Bisphenol A	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Caffeine	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Carbadox	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Carbamazepine	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Cefotaxime	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Chlortetracycline (CTC)	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Cimetidine	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Ciprofloxacin	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Clarithromycin	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Clinafloxacn	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Clonidine	SGS AXYS MLA-075	MLA-075				Y															Y				
	Cloxacillin	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Cocaine	SGS AXYS MLA-075	MLA-075				Y															Y				
	Codeine	EPA 1694	MLA-075						Y																	
		SGS AXYS MLA-075	MLA-075				Y															Y				
	Cotinine	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	DEET (N,N-diethyl-m-toluamide)	SGS AXYS MLA-075	MLA-075				Y															Y				
	Dehydronifedipine	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Demeclocycline	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Desmethyldiltiazem	SGS AXYS MLA-075	MLA-075				Y															Y				
	Diazepam	SGS AXYS MLA-075	MLA-075				Y															Y				
	Digoxigenin	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Digoxin	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Diltiazem	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Diphenhydramine	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Doxycycline	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Enalapril	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Enrofloxacin	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Erythromycin	SGS AXYS MLA-075	MLA-075				Y																			
	Erythromycin anhydrate	EPA 1694	MLA-075						Y													Y				
	Flumequine	EPA 1694	MLA-075						Y													Y				
		SGS AXYS MLA-075	MLA-075				Y																			
	Fluochionide	SGS AXYS MLA-075	MLA-075				Y															Y				
	Fluoxetine	EPA 1694	MLA-075						Y																	
		SGS AXYS MLA-075	MLA-075				Y															Y				
	Fluticasone propionate	SGS AXYS MLA-075	MLA-075				Y															Y				
	Furosemide	SGS AXYS MLA-075	MLA-075				Y															Y				
	Gemfibrozil	EPA 1694	MLA-075						Y																	
	SGS AXYS MLA-075	MLA-075				Y															Y					
Glipizide	SGS AXYS MLA-075	MLA-075				Y															Y					
Glyburide	SGS AXYS MLA-075	MLA-075				Y															Y					
Hydrochlorothiazide	SGS AXYS MLA-075	MLA-075				Y															Y					
Hydrocodone	SGS AXYS MLA-075	MLA-075				Y															Y					
Hydrocortisone	SGS AXYS MLA-075	MLA-075				Y															Y					
Ibuprofen	EPA 1694	MLA-075						Y																		

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SGS AXYS Analytical Services Ltd.																																													
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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						
TOP	Symmetric dimethylarginine	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	Taurine	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	taurochenodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	taurocholic acid	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	taurodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	tauroolithocholic acid	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	taurooursodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	Tetradecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	tetradecanoic acid (myristic acid)	SGS AXYS MLM-001	MLM-001															Y						Y																					
	Tetradecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	Tetradecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	Threonine	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	Tiglylcarnitine	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	Total dimethylarginine	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	Tryptophan	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	Tyrosine	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	ursodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	Valeryl carnitine	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	Valine	SGS AXYS MLM-001	MLM-001	Y														Y						Y																					
	Perfluorobutanesulfonate (PFBS)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluorobutanoate (PFBA)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluorodecanesulfonate (PFDS)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluorodecanoate (PFDA)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluorododecanesulfonate (PFDoS)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluorododecanoate (PFDoA)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluoroheptanesulfonate (PFHpS)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluoroheptanoate (PFHpA)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluorohexanesulfonate (PFHxS)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluorohexanoate (PFHxA)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluorononanesulfonate (PFNS)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluorononanoate (PFNA)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluorooctanesulfonate (PFOS)	SGS AXYS MLA-111	MLA-111						Y																Y																				
	Perfluorooctanoate (PFOA)	SGS AXYS MLA-111	MLA-111						Y																Y																				
Perfluoropentanesulfonate (PFPeS)	SGS AXYS MLA-111	MLA-111						Y																Y																					
Perfluoropentanoate (PFPeA)	SGS AXYS MLA-111	MLA-111						Y																Y																					
Perfluorotetradecanoate (PFTeDA)	SGS AXYS MLA-111	MLA-111						Y																Y																					
Perfluorotridecanoate (PFTriDA)	SGS AXYS MLA-111	MLA-111						Y																Y																					
Perfluoroundecanoate (PFUnA)	SGS AXYS MLA-111	MLA-111						Y																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																																												

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. 57

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

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



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



CALA
Testing
Accreditation No. A2637