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SGS AXYS Client No.: 4972

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The SGS AXYS contact for these data is Sean Campbell.

BATCH SUMMARY

Batch ID: WG65521	Date: 05-Feb-2019												
Analysis Type: E1 Pesticide	Matrix Type: XAD												
BATCH MAKEUP													
Contract: 4972 Samples: L29924-1 PDI-RB-XD-180820 L29988-1 PDI-WS-T04-1808 L29988-2 PDI-WS-T02-1808 L29988-3 PDI-WS-T05-1808 L29988-4 PDI-WS-T07-1808 L29988-5 PDI-WS-T03-1808 L29988-6 PDI-WS-T01-1808 L29988-7 PDI-WS-T06-1808	Blank: WG65521-101 Reference or Spike: WG65521-102 Duplicate:												
RESUBMISSION 06-Feb-19: Data are being resubmitted to correct the database labeled as "...sample". No other changes were made. RESUBMISSION 05-Feb-19: Data are being resubmitted to include sample data for oxychlordane , trans-nonachlor and cis-nonachlor. No other changes were made. 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. Disturbances of the mass ion used to monitor instrument performance (lock-mass) greater than the method specification were observed in many samples near the retention times corresponding to the analytes listed below. These analytes have been flagged with a 'G'. <table border="1"> <thead> <tr> <th>CLIENT ID</th> <th>AXYS ID</th> <th>Analytes G-flagged</th> </tr> </thead> <tbody> <tr> <td>PDI-RB-XD-180820</td> <td>L29924-1</td> <td>4,4'-DDT and ¹³C-4,4'-DDT</td> </tr> <tr> <td>PDI-WS-T07-1808</td> <td>L29988-4</td> <td>alpha(cis)-Chlordane</td> </tr> <tr> <td colspan="2">All the samples in this analysis batch except samples named 'PDI-RB-XD-180820' and 'PDI-WS-T01-1808' (AXYS IDs: L29924-1 and L29988-6, respectively) and OPR WG65521-102</td> <td>oxychlordane and ¹³C-oxychlordane</td> </tr> </tbody> </table>		CLIENT ID	AXYS ID	Analytes G-flagged	PDI-RB-XD-180820	L29924-1	4,4'-DDT and ¹³ C-4,4'-DDT	PDI-WS-T07-1808	L29988-4	alpha(cis)-Chlordane	All the samples in this analysis batch except samples named 'PDI-RB-XD-180820' and 'PDI-WS-T01-1808' (AXYS IDs: L29924-1 and L29988-6, respectively) and OPR WG65521-102		oxychlordane and ¹³ C-oxychlordane
CLIENT ID	AXYS ID	Analytes G-flagged											
PDI-RB-XD-180820	L29924-1	4,4'-DDT and ¹³ C-4,4'-DDT											
PDI-WS-T07-1808	L29988-4	alpha(cis)-Chlordane											
All the samples in this analysis batch except samples named 'PDI-RB-XD-180820' and 'PDI-WS-T01-1808' (AXYS IDs: L29924-1 and L29988-6, respectively) and OPR WG65521-102		oxychlordane and ¹³ C-oxychlordane											

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February 2017

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-RB-XD-180820
Sample Collection:
20-Aug-2018 15:43

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 22-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 25-Oct-2018 Time: 01:39:34

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 5

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L29924-1 W

Sample Size: 1 sample

Initial Calibration Date: 24-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

Sample Data Filename: CL8B_157D S: 27

Blank Data Filename: CL82_142A S: 6

Cal. Ver. Data Filename: CL8B_157D S: 18

Concentration Units: ng/sample

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	D J	0.274	0.0263 (Q)	1.15	1.000
Aldrin	309-00-2	U D		0.0525 (Q)		
Chlordane, oxy-	27304-13-8	U D		0.187 (S)		
Chlordane, gamma (trans)	5103-74-2	D J	0.887	0.0525 (Q)	1.31	1.001
Chlordane, alpha (cis)	5103-71-9	D J	0.417	0.0525 (Q)	1.17	1.026
Nonachlor, trans-	39765-80-5	K D J	0.322	0.0525 (Q)	0.95	1.000
Nonachlor, cis-	5103-73-1	U D		0.100 (S)		
2,4'-DDD	53-19-0	D J	0.184	0.140 (S)	1.77	0.951
4,4'-DDD	72-54-8	D J	0.512	0.174 (S)	1.38	1.001
2,4'-DDE	3424-82-6	U D		0.0525 (Q)		
4,4'-DDE	72-55-9	D J	0.164	0.0620 (S)	1.39	1.000
2,4'-DDT	789-02-6	U D		0.278 (S)		
4,4'-DDT	50-29-3	K D J G	0.465	0.338 (S)	1.97	1.001

(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; D = dilution data; J = concentration less than lowest calibration equivalent; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2454065

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29924-1_Form1A_CL8B_157DS27_SJ2454065.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-RB-XD-180820
Sample Collection:
20-Aug-2018 15:43

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 22-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 25-Oct-2018 Time: 01:39:34

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: ng absolute

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L29924-1 W

Sample Size: 1 sample

Initial Calibration Date: 24-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

Sample Data Filename: CL8B_157D S: 27

Blank Data Filename: CL82_142A S: 6

Cal. Ver. Data Filename: CL8B_157D S: 18

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene	D	24.3	14.2	58.5	1.29	0.791
13C-Aldrin	D	24.0	15.3	63.7	1.61	1.031
13C-Chlordane, oxy	D	24.0	19.3	80.6	1.65	1.110
13C-Chlordane, gamma (trans)	D	24.0	17.0	70.9	1.22	0.839
13C-Nonachlor, trans-	D	24.0	17.3	71.9	1.23	0.868
13C-Nonachlor, cis-	D	24.5	16.7	68.1	1.47	0.956
13C-2,4'-DDE	D	24.0	18.7	77.8	1.59	0.846
13C-4,4'-DDE	D	24.6	19.4	78.7	1.55	0.891
13C-4,4'-DDD	D	24.2	17.9	74.0	1.60	0.950
13C-2,4'-DDT	D	24.0	16.3	68.1	1.63	0.955
13C-4,4'-DDT	D G	24.2	15.6	64.6	1.58	0.995

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2454065

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29924-1_Form2_CL8B_157DS27_SJ2454065.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T04-1808
Sample Collection:
23-Aug-2018 10:08

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	XAD	Lab Sample I.D.:	L29988-1
Sample Receipt Date:	29-Aug-2018	Sample Size:	1 sample
Extraction Date:	09-Oct-2018	Initial Calibration Date:	11-Oct-2018
Analysis Date:	19-Oct-2018 Time: 11:41:05	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL82_142A S: 8
Dilution Factor:	N/A	Blank Data Filename:	CL82_142A S: 6
		Cal. Ver. Data Filename:	CL82_142A S: 1
Concentration Units:	ng/sample		

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This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1		6.77	0.0266 (Q)	1.24	1.000
Aldrin	309-00-2	K J	0.576	0.0902 (S)	1.16	1.000
Chlordane, oxy-	27304-13-8	U G		0.342 (S)		
Chlordane, gamma (trans)	5103-74-2	J	2.23	0.0532 (Q)	1.25	1.000
Chlordane, alpha (cis)	5103-71-9	J	2.55	0.0532 (Q)	1.25	1.026
Nonachlor, trans-	39765-80-5	J	1.94	0.0532 (Q)	1.29	1.000
Nonachlor, cis-	5103-73-1	J	0.861	0.0532 (Q)	1.12	1.001
2,4'-DDD	53-19-0		24.1	0.0732 (S)	1.57	0.951
4,4'-DDD	72-54-8		39.4	0.0937 (S)	1.58	1.001
2,4'-DDE	3424-82-6	J	1.34	0.0720 (S)	1.54	1.001
4,4'-DDE	72-55-9		14.9	0.0887 (S)	1.58	1.000
2,4'-DDT	789-02-6	J	1.95	0.107 (S)	1.67	1.000
4,4'-DDT	50-29-3		3.44	0.116 (S)	1.57	1.000

(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 lowest calibration equivalent; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451834

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Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-1_Form1A_CL82_142AS8_SJ2451834.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T04-1808
Sample Collection:
23-Aug-2018 10:08

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 11:41:05

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng absolute

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L29988-1

Sample Size: 1 sample

Initial Calibration Date: 11-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

Sample Data Filename: CL82_142A S: 8

Blank Data Filename: CL82_142A S: 6

Cal. Ver. Data Filename: CL82_142A S: 1

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LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		24.3	11.6	47.6	1.26	0.791
13C-Aldrin		24.0	14.6	60.7	1.61	1.030
13C-Chlordane, oxy	G	24.0	16.8	70.2	1.54	1.111
13C-Chlordane, gamma (trans)		24.0	18.8	78.2	1.26	0.837
13C-Nonachlor, trans-		24.0	18.5	77.0	1.30	0.866
13C-Nonachlor, cis-		24.5	19.8	80.9	1.31	0.954
13C-2,4'-DDE		24.0	21.0	87.3	1.61	0.844
13C-4,4'-DDE		24.6	22.5	91.5	1.62	0.889
13C-4,4'-DDD		24.2	27.3	113	1.60	0.948
13C-2,4'-DDT		24.0	24.5	102	1.60	0.953
13C-4,4'-DDT		24.2	26.6	110	1.56	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451834

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Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-1_Form2_CL82_142AS8_SJ2451834.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T02-1808
Sample Collection:
24-Aug-2018 12:22

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 24-Oct-2018 Time: 23:47:20

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/sample

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

PORTLAND HARBOR PDI AND
BASELINE WATER
L29988-2 i

1 sample

24-Oct-2018

HR GC/MS

DB5

CL8B_157D S: 24

CL82_142A S: 6

CL8B_157D S: 18

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This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1		3.54	0.0267 (Q)	1.25	1.000
Aldrin	309-00-2	J	0.444	0.0534 (Q)	1.64	1.001
Chlordane, oxy-	27304-13-8	U G		0.256 (S)		
Chlordane, gamma (trans)	5103-74-2	J	1.09	0.0534 (Q)	1.23	1.001
Chlordane, alpha (cis)	5103-71-9	J	1.29	0.0534 (Q)	1.25	1.026
Nonachlor, trans-	39765-80-5	J	1.14	0.0534 (Q)	1.21	1.001
Nonachlor, cis-	5103-73-1	J	0.511	0.0534 (Q)	1.23	1.001
2,4'-DDD	53-19-0		8.53	0.0534 (Q)	1.62	0.951
4,4'-DDD	72-54-8		16.3	0.0534 (Q)	1.59	1.001
2,4'-DDE	3424-82-6	J	0.475	0.0534 (Q)	1.54	1.000
4,4'-DDE	72-55-9		8.97	0.0534 (Q)	1.57	1.000
2,4'-DDT	789-02-6	J	0.501	0.0598 (S)	1.75	1.001
4,4'-DDT	50-29-3	J	0.772	0.0678 (S)	1.57	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than lowest calibration equivalent; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2454064

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-2_Form1A_CL8B_157DS24_SJ2454064.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T02-1808
Sample Collection:
24-Aug-2018 12:22

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 24-Oct-2018 Time: 23:47:20

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng absolute

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

PORTLAND HARBOR PDI AND
BASELINE WATER
L29988-2 i

1 sample

24-Oct-2018

HR GC/MS

DB5

CL8B_157D S: 24

CL82_142A S: 6

CL8B_157D S: 18

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		24.3	16.4	67.3	1.32	0.791
13C-Aldrin		24.0	16.3	67.8	1.62	1.031
13C-Chlordane, oxy	G	24.0	22.4	93.2	1.60	1.111
13C-Chlordane, gamma (trans)		24.0	19.5	81.3	1.27	0.839
13C-Nonachlor, trans-		24.0	19.1	79.4	1.23	0.867
13C-Nonachlor, cis-		24.5	19.0	77.9	1.27	0.956
13C-2,4'-DDE		24.0	21.1	88.1	1.58	0.847
13C-4,4'-DDE		24.6	21.9	89.1	1.56	0.891
13C-4,4'-DDD		24.2	21.0	86.8	1.59	0.949
13C-2,4'-DDT		24.0	20.3	84.7	1.60	0.955
13C-4,4'-DDT		24.2	21.3	88.1	1.60	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2454064

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-2_Form2_CL8B_157DS24_SJ2454064.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T05-1808
Sample Collection:
21-Aug-2018 20:28

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	XAD	Lab Sample I.D.:	L29988-3
Sample Receipt Date:	29-Aug-2018	Sample Size:	1 sample
Extraction Date:	09-Oct-2018	Initial Calibration Date:	11-Oct-2018
Analysis Date:	19-Oct-2018 Time: 12:56:13	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL82_142A S: 10
Dilution Factor:	N/A	Blank Data Filename:	CL82_142A S: 6
		Cal. Ver. Data Filename:	CL82_142A S: 1
Concentration Units:	ng/sample		

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1		4.47	0.0261 (Q)	1.24	1.001
Aldrin	309-00-2	J	0.484	0.0630 (S)	1.39	1.001
Chlordane, oxy-	27304-13-8	U G		0.275 (S)		
Chlordane, gamma (trans)	5103-74-2	J	1.57	0.0523 (Q)	1.29	1.001
Chlordane, alpha (cis)	5103-71-9	J	1.79	0.0523 (Q)	1.23	1.026
Nonachlor, trans-	39765-80-5	J	1.43	0.0523 (Q)	1.29	1.001
Nonachlor, cis-	5103-73-1	J	0.612	0.129 (S)	1.36	1.001
2,4'-DDD	53-19-0	J	2.32	0.0657 (S)	1.50	0.951
4,4'-DDD	72-54-8		6.86	0.0841 (S)	1.58	1.001
2,4'-DDE	3424-82-6	J	0.232	0.0622 (S)	1.54	1.000
4,4'-DDE	72-55-9		6.37	0.0796 (S)	1.60	1.001
2,4'-DDT	789-02-6	K J	0.149	0.0949 (S)	2.51	0.999
4,4'-DDT	50-29-3	J	0.255	0.0997 (S)	1.56	1.000

(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 lowest calibration equivalent; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451836

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-3_Form1A_CL82_142AS10_SJ2451836.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T05-1808
Sample Collection:
21-Aug-2018 20:28

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 12:56:13

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng absolute

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L29988-3

Sample Size: 1 sample

Initial Calibration Date: 11-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

Sample Data Filename: CL82_142A S: 10

Blank Data Filename: CL82_142A S: 6

Cal. Ver. Data Filename: CL82_142A S: 1

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		24.3	16.0	65.9	1.28	0.791
13C-Aldrin		24.0	18.1	75.3	1.62	1.031
13C-Chlordane, oxy	G	24.0	19.7	82.2	1.55	1.111
13C-Chlordane, gamma (trans)		24.0	22.6	94.3	1.31	0.837
13C-Nonachlor, trans-		24.0	20.9	87.3	1.25	0.865
13C-Nonachlor, cis-		24.5	21.3	86.9	1.29	0.953
13C-2,4'-DDE		24.0	24.0	100	1.63	0.844
13C-4,4'-DDE		24.6	25.5	104	1.60	0.889
13C-4,4'-DDD		24.2	29.4	122	1.59	0.948
13C-2,4'-DDT		24.0	27.4	114	1.62	0.953
13C-4,4'-DDT		24.2	30.6	127	1.60	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451836

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-3_Form2_CL82_142AS10_SJ2451836.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T07-1808
Sample Collection:
23-Aug-2018 18:20

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 13:33:37

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/sample

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

PORTLAND HARBOR PDI AND
BASELINE WATER
L29988-4

1 sample

11-Oct-2018

HR GC/MS

DB5

CL82_142A S: 11

CL82_142A S: 6

CL82_142A S: 1

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1		6.47	0.0262 (Q)	1.29	1.000
Aldrin	309-00-2	J	0.267	0.0607 (S)	1.32	1.001
Chlordane, oxy-	27304-13-8	U G		0.338 (S)		
Chlordane, gamma (trans)	5103-74-2	J	1.26	0.0525 (Q)	1.23	1.001
Chlordane, alpha (cis)	5103-71-9	J G	1.61	0.0525 (Q)	1.31	1.026
Nonachlor, trans-	39765-80-5	J	1.62	0.0525 (Q)	1.26	1.001
Nonachlor, cis-	5103-73-1	J	0.647	0.0591 (S)	1.40	1.001
2,4'-DDD	53-19-0	J	1.54	0.0525 (Q)	1.56	0.951
4,4'-DDD	72-54-8		4.52	0.0668 (S)	1.60	1.001
2,4'-DDE	3424-82-6	J	0.142	0.0525 (Q)	1.46	1.000
4,4'-DDE	72-55-9		5.98	0.0526 (S)	1.57	1.001
2,4'-DDT	789-02-6	J	0.189	0.0707 (S)	1.46	1.000
4,4'-DDT	50-29-3	J	0.457	0.0740 (S)	1.60	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than lowest calibration equivalent; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451837

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-4_Form1A_CL82_142AS11_SJ2451837.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T07-1808
Sample Collection:
23-Aug-2018 18:20

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 13:33:37

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng absolute

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L29988-4

Sample Size: 1 sample

Initial Calibration Date: 11-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

Sample Data Filename: CL82_142A S: 11

Blank Data Filename: CL82_142A S: 6

Cal. Ver. Data Filename: CL82_142A S: 1

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		24.3	13.6	55.9	1.29	0.791
13C-Aldrin		24.0	15.2	63.5	1.61	1.030
13C-Chlordane, oxy	G	24.0	21.3	89.0	1.66	1.110
13C-Chlordane, gamma (trans)		24.0	18.9	79.0	1.28	0.837
13C-Nonachlor, trans-		24.0	17.9	74.7	1.28	0.865
13C-Nonachlor, cis-		24.5	19.2	78.6	1.27	0.954
13C-2,4'-DDE		24.0	20.6	85.7	1.65	0.844
13C-4,4'-DDE		24.6	22.5	91.3	1.63	0.889
13C-4,4'-DDD		24.2	26.7	110	1.57	0.948
13C-2,4'-DDT		24.0	25.3	106	1.58	0.953
13C-4,4'-DDT		24.2	28.5	118	1.60	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451837

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-4_Form2_CL82_142AS11_SJ2451837.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T03-1808
Sample Collection:
22-Aug-2018 17:55

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	XAD	Lab Sample I.D.:	L29988-5
Sample Receipt Date:	29-Aug-2018	Sample Size:	1 sample
Extraction Date:	09-Oct-2018	Initial Calibration Date:	11-Oct-2018
Analysis Date:	19-Oct-2018 Time: 14:11:03	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL82_142A S: 12
Dilution Factor:	N/A	Blank Data Filename:	CL82_142A S: 6
		Cal. Ver. Data Filename:	CL82_142A S: 1
Concentration Units:	ng/sample		

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1		5.73	0.0267 (Q)	1.23	1.000
Aldrin	309-00-2	J	0.649	0.0536 (S)	1.64	1.001
Chlordane, oxy-	27304-13-8	U G		0.247 (S)		
Chlordane, gamma (trans)	5103-74-2	J	1.69	0.0534 (Q)	1.29	1.000
Chlordane, alpha (cis)	5103-71-9	J	2.19	0.0534 (Q)	1.22	1.026
Nonachlor, trans-	39765-80-5	J	1.78	0.0534 (Q)	1.33	1.000
Nonachlor, cis-	5103-73-1	K J	0.692	0.0534 (Q)	0.90	1.001
2,4'-DDD	53-19-0	X				
4,4'-DDD	72-54-8		28.2	0.0843 (S)	1.58	1.000
2,4'-DDE	3424-82-6	J	0.842	0.0608 (S)	1.42	1.000
4,4'-DDE	72-55-9		12.6	0.0775 (S)	1.59	1.001
2,4'-DDT	789-02-6	J	0.945	0.0913 (S)	1.73	1.000
4,4'-DDT	50-29-3	J	1.82	0.0941 (S)	1.53	1.000

(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 lowest calibration equivalent; G = lock mass interference present; X = result reported separately.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451838

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-5_Form1A_CL82_142AS12_SJ2451838.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T03-1808
Sample Collection:
22-Aug-2018 17:55

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 14:11:03

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng absolute

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L29988-5

Sample Size: 1 sample

Initial Calibration Date: 11-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

Sample Data Filename: CL82_142A S: 12

Blank Data Filename: CL82_142A S: 6

Cal. Ver. Data Filename: CL82_142A S: 1

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		24.3	13.7	56.4	1.30	0.790
13C-Aldrin		24.0	16.4	68.3	1.58	1.030
13C-Chlordane, oxy	G	24.0	17.6	73.2	1.62	1.110
13C-Chlordane, gamma (trans)		24.0	20.0	83.5	1.26	0.837
13C-Nonachlor, trans-		24.0	19.0	79.0	1.31	0.866
13C-Nonachlor, cis-		24.5	19.2	78.7	1.24	0.954
13C-2,4'-DDE		24.0	22.2	92.6	1.62	0.844
13C-4,4'-DDE		24.6	23.3	94.7	1.63	0.889
13C-4,4'-DDD		24.2	27.3	113	1.56	0.948
13C-2,4'-DDT		24.0	25.6	107	1.64	0.953
13C-4,4'-DDT		24.2	29.4	122	1.57	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451838

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-5_Form2_CL82_142AS12_SJ2451838.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T03-1808
Sample Collection:
22-Aug-2018 17:55

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 01-Nov-2018 **Time:** 20:47:50

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 2.5

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L29988-5 W

Sample Size: 1 sample

Initial Calibration Date: 11-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

Sample Data Filename: CL82_148A S: 14

Blank Data Filename: CL82_142A S: 6

Cal. Ver. Data Filename: CL82_148A S: 2

Concentration Units: ng/sample

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	X				
Aldrin	309-00-2	X				
Chlordane, gamma (trans)	5103-74-2	X				
Chlordane, alpha (cis)	5103-71-9	X				
2,4'-DDD	53-19-0	D	16.5	0.0846 (S)	1.50	0.951
4,4'-DDD	72-54-8	X				
2,4'-DDE	3424-82-6	X				
4,4'-DDE	72-55-9	X				
2,4'-DDT	789-02-6	X				
4,4'-DDT	50-29-3	X				

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.

(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: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-5_Form1A_CL82_148AS14_SJ2458815.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T03-1808
Sample Collection:
22-Aug-2018 17:55

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 01-Nov-2018 Time: 20:47:50

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 2.5

Concentration Units: ng absolute

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

PORTLAND HARBOR PDI AND
BASELINE WATER
L29988-5 W

1 sample

11-Oct-2018

HR GC/MS

DB5

CL82_148A S: 14

CL82_142A S: 6

CL82_148A S: 2

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene	X					
13C-Aldrin	X					
13C-Chlordane, gamma (trans)	X					
13C-2,4'-DDE	X					
13C-4,4'-DDE	X					
13C-4,4'-DDD	D	24.2	20.0	82.7	1.58	0.949
13C-2,4'-DDT	X					
13C-4,4'-DDT	X					

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.

(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: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-5_Form2_CL82_148AS14_SJ2458815.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T01-1808
Sample Collection:
25-Aug-2018 12:02

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 25-Oct-2018 Time: 02:17:00

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: ng/sample

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

PORTLAND HARBOR PDI AND
BASELINE WATER
L29988-6 W

1 sample

24-Oct-2018

HR GC/MS

DB5

CL8B_157D S: 28

CL82_142A S: 6

CL8B_157D S: 18

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	X				
Aldrin	309-00-2	X				
Chlordane, oxy-	27304-13-8	K D J	0.231	0.158 (S)	0.93	1.000
Chlordane, gamma (trans)	5103-74-2	X				
Chlordane, alpha (cis)	5103-71-9	D J	1.17	0.0528 (Q)	1.41	1.026
Nonachlor, trans-	39765-80-5	X				
Nonachlor, cis-	5103-73-1	X				
2,4'-DDD	53-19-0	X				
4,4'-DDD	72-54-8	X				
2,4'-DDE	3424-82-6	X				
4,4'-DDE	72-55-9	X				
2,4'-DDT	789-02-6	X				
4,4'-DDT	50-29-3	X				

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; D = dilution data; J = concentration less than lowest calibration equivalent; X = result reported separately.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2454066

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

Signed: _____ Ting Chen _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-6_Form1A_CL8B_157DS28_SJ2454066.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T01-1808
Sample Collection:
25-Aug-2018 12:02

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 25-Oct-2018 Time: 02:17:00

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: ng absolute

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

PORTLAND HARBOR PDI AND
BASELINE WATER
L29988-6 W

1 sample

24-Oct-2018

HR GC/MS

DB5

CL8B_157D S: 28

CL82_142A S: 6

CL8B_157D S: 18

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene	X					
13C-Aldrin	X					
13C-Chlordane, oxy	D	24.0	22.9	95.3	1.64	1.110
13C-Chlordane, gamma (trans)	D	24.0	22.0	91.6	1.30	0.839
13C-Nonachlor, trans-	X					
13C-Nonachlor, cis-	X					
13C-2,4'-DDE	X					
13C-4,4'-DDE	X					
13C-4,4'-DDD	X					
13C-2,4'-DDT	X					
13C-4,4'-DDT	X					

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2454066

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-6_Form2_CL8B_157DS28_SJ2454066.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T01-1808
Sample Collection:
25-Aug-2018 12:02

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 14:48:27

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/sample

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

PORTLAND HARBOR PDI AND
BASELINE WATER
L29988-6

1 sample

11-Oct-2018

HR GC/MS

DB5

CL82_142A S: 13

CL82_142A S: 6

CL82_142A S: 1

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1		3.46	0.0264 (Q)	1.26	1.000
Aldrin	309-00-2	J	0.310	0.0540 (S)	1.31	1.001
Chlordane, oxy-	27304-13-8	X				
Chlordane, gamma (trans)	5103-74-2	J	1.07	0.0528 (Q)	1.34	1.001
Chlordane, alpha (cis)	5103-71-9	X				
Nonachlor, trans-	39765-80-5	J	0.965	0.0528 (Q)	1.32	1.001
Nonachlor, cis-	5103-73-1	J	0.416	0.0528 (Q)	1.26	1.001
2,4'-DDD	53-19-0		5.63	0.0623 (S)	1.55	0.950
4,4'-DDD	72-54-8		15.1	0.0799 (S)	1.58	1.000
2,4'-DDE	3424-82-6	J	0.451	0.0528 (Q)	1.42	1.000
4,4'-DDE	72-55-9		10.1	0.0528 (Q)	1.59	1.000
2,4'-DDT	789-02-6	J	0.324	0.0929 (S)	1.73	1.001
4,4'-DDT	50-29-3	J	0.518	0.100 (S)	1.50	1.001

(1) Where applicable, custom lab flags have been used on this report; J = concentration less than lowest calibration equivalent; X = result reported separately.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451839

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-6_Form1A_CL82_142AS13_SJ2451839.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T01-1808
Sample Collection:
25-Aug-2018 12:02

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 14:48:27

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng absolute

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L29988-6

Sample Size: 1 sample

Initial Calibration Date: 11-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

Sample Data Filename: CL82_142A S: 13

Blank Data Filename: CL82_142A S: 6

Cal. Ver. Data Filename: CL82_142A S: 1

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		24.3	14.7	60.3	1.29	0.791
13C-Aldrin		24.0	16.2	67.4	1.66	1.030
13C-Chlordane, oxy	X					
13C-Chlordane, gamma (trans)		24.0	19.4	80.8	1.25	0.837
13C-Nonachlor, trans-		24.0	18.4	76.5	1.24	0.866
13C-Nonachlor, cis-		24.5	19.4	79.4	1.26	0.954
13C-2,4'-DDE		24.0	21.7	90.6	1.62	0.845
13C-4,4'-DDE		24.6	22.7	92.1	1.62	0.889
13C-4,4'-DDD		24.2	28.2	117	1.60	0.949
13C-2,4'-DDT		24.0	25.6	107	1.61	0.953
13C-4,4'-DDT		24.2	28.7	119	1.61	0.996

(1) Where applicable, custom lab flags have been used on this report; X = result reported separately.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451839

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-6_Form2_CL82_142AS13_SJ2451839.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T06-1808
Sample Collection:
24-Aug-2018 16:32

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 15:25:52

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/sample

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

PORTLAND HARBOR PDI AND
BASELINE WATER
L29988-7

1 sample

11-Oct-2018

HR GC/MS

DB5

CL82_142A S: 14

CL82_142A S: 6

CL82_142A S: 1

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1		6.35	0.0265 (Q)	1.25	1.000
Aldrin	309-00-2	J	0.340	0.0531 (Q)	1.67	1.001
Chlordane, oxy-	27304-13-8	K J G	0.268	0.201 (S)	1.20	1.001
Chlordane, gamma (trans)	5103-74-2	J	1.43	0.0531 (Q)	1.21	1.000
Chlordane, alpha (cis)	5103-71-9	J	1.89	0.0531 (Q)	1.29	1.026
Nonachlor, trans-	39765-80-5	J	1.71	0.0531 (Q)	1.32	1.001
Nonachlor, cis-	5103-73-1	J	0.638	0.0531 (Q)	1.15	1.000
2,4'-DDD	53-19-0	J	1.77	0.0620 (S)	1.55	0.951
4,4'-DDD	72-54-8		5.69	0.0795 (S)	1.54	1.000
2,4'-DDE	3424-82-6	J	0.188	0.0531 (Q)	1.28	1.001
4,4'-DDE	72-55-9		7.52	0.0531 (Q)	1.61	1.000
2,4'-DDT	789-02-6	J	0.184	0.0921 (S)	1.61	1.001
4,4'-DDT	50-29-3	J	0.397	0.103 (S)	1.64	1.001

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451840

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-7_Form1A_CL82_142AS14_SJ2451840.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T06-1808
Sample Collection:
24-Aug-2018 16:32

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 29-Aug-2018

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 15:25:52

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng absolute

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L29988-7

Sample Size: 1 sample

Initial Calibration Date: 11-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

Sample Data Filename: CL82_142A S: 14

Blank Data Filename: CL82_142A S: 6

Cal. Ver. Data Filename: CL82_142A S: 1

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		24.3	13.0	53.7	1.27	0.791
13C-Aldrin		24.0	14.8	61.5	1.59	1.030
13C-Chlordane, oxy	G	24.0	16.5	68.5	1.61	1.110
13C-Chlordane, gamma (trans)		24.0	21.6	90.0	1.26	0.837
13C-Nonachlor, trans-		24.0	19.4	80.8	1.34	0.866
13C-Nonachlor, cis-		24.5	18.9	77.3	1.27	0.954
13C-2,4'-DDE		24.0	22.7	94.7	1.63	0.844
13C-4,4'-DDE		24.6	23.4	95.3	1.62	0.889
13C-4,4'-DDD		24.2	28.0	116	1.57	0.948
13C-2,4'-DDT		24.0	25.6	106	1.60	0.953
13C-4,4'-DDT		24.2	27.2	113	1.58	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451840

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29988-7_Form2_CL82_142AS14_SJ2451840.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORTCLIENT 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.: 4972

Matrix: XAD

Sample Receipt Date: N/A

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 10:26:16

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

N/A

WG65521-101

1 sample

11-Oct-2018

HR GC/MS

DB5

CL82_142A S: 6

CL82_142A S: 6

CL82_142A S: 1

Concentration Units: ng/sample

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	J	0.085	0.0265 (Q)	1.48	1.000
Aldrin	309-00-2	U		0.0674 (S)		
Chlordane, oxy-	27304-13-8	U G		0.245 (S)		
Chlordane, gamma (trans)	5103-74-2	U		0.0530 (Q)		
Chlordane, alpha (cis)	5103-71-9	U		0.0530 (Q)		
Nonachlor, trans-	39765-80-5	U		0.0530 (Q)		
Nonachlor, cis-	5103-73-1	U		0.0530 (Q)		
2,4'-DDD	53-19-0	U		0.0530 (Q)		
4,4'-DDD	72-54-8	U		0.0620 (S)		
2,4'-DDE	3424-82-6	U		0.0530 (Q)		
4,4'-DDE	72-55-9	J	0.089	0.0630 (S)	1.72	1.000
2,4'-DDT	789-02-6	U		0.0696 (S)		
4,4'-DDT	50-29-3	U		0.0751 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than lowest calibration equivalent; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451832

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_WG65521-101_Form1A_CL82_142AS6_SJ2451832.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORTCLIENT 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.: 4972

Matrix: XAD

Sample Receipt Date: N/A

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 10:26:16

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng absolute

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

N/A

WG65521-101

1 sample

11-Oct-2018

HR GC/MS

DB5

CL82_142A S: 6

CL82_142A S: 6

CL82_142A S: 1

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		24.3	15.4	63.6	1.27	0.791
13C-Aldrin		24.0	16.1	67.1	1.57	1.030
13C-Chlordane, oxy	G	24.0	19.0	79.1	1.67	1.111
13C-Chlordane, gamma (trans)		24.0	20.0	83.3	1.25	0.837
13C-Nonachlor, trans-		24.0	20.0	83.3	1.29	0.866
13C-Nonachlor, cis-		24.5	20.6	84.1	1.23	0.954
13C-2,4'-DDE		24.0	21.3	88.6	1.64	0.844
13C-4,4'-DDE		24.6	23.2	94.1	1.63	0.889
13C-4,4'-DDD		24.2	25.9	107	1.58	0.948
13C-2,4'-DDT		24.0	24.5	102	1.61	0.953
13C-4,4'-DDT		24.2	26.4	109	1.60	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2451832

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_WG65521-101_Form2_CL82_142AS6_SJ2451832.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 8A

PESTICIDE 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.: 4972

OPR Data Filename: CL82_142A S: 3

Matrix: XAD

Lab Sample I.D.: WG65521-102

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 08:33:47

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON 100 µL EXTRACT.

COMPOUND	CAS NO.	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
Hexachlorobenzene	118-74-1		1.27	120	121	84.0 - 156	101
Aldrin	309-00-2		1.53	312	291	218 - 405	93.4
Chlordane, oxy-	27304-13-8		1.63	240	205	168 - 312	85.5
Chlordane, gamma (trans)	5103-74-2		1.30	240	246	168 - 312	102
Chlordane, alpha (cis)	5103-71-9		1.25	241	238	168 - 313	99.0
Nonachlor, trans-	39765-80-5		1.25	204	212	143 - 265	104
Nonachlor, cis-	5103-73-1		1.21	240	250	168 - 312	104
2,4'-DDD	53-19-0		1.55	121	124	84.6 - 157	103
4,4'-DDD	72-54-8		1.60	145	147	102 - 189	101
2,4'-DDE	3424-82-6		1.60	121	124	84.8 - 158	103
4,4'-DDE	72-55-9		1.58	147	150	103 - 191	102
2,4'-DDT	789-02-6		1.58	120	119	83.8 - 156	99.6
4,4'-DDT	50-29-3		1.54	121	124	84.8 - 158	102

(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: _____Ting Chen_____

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: Pest8A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_WG65521-102_Form8A_SJ2451830.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 8B

PESTICIDE 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.: 4972

OPR Data Filename: CL82_142A S: 3

Matrix: XAD

Lab Sample I.D.: WG65521-102

Extraction Date: 09-Oct-2018

Analysis Date: 19-Oct-2018 Time: 08:33:47

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON 100 uL EXTRACT.

LABELED COMPOUND	CAS NO.	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
13C-Hexachlorobenzene	93952-14-8		1.27	243	165	48.6-365	68.0
13C-Aldrin			1.62	240	166	72.0-360	69.1
13C-Chlordane, oxy			1.59	240	206	72.0-480	86.0
13C-Chlordane, gamma (trans)			1.20	240	207	72.0-480	86.3
13C-Nonachlor, trans-			1.29	240	195	72.0-360	81.4
13C-Nonachlor, cis-			1.24	245	189	73.4-367	77.4
13C-2,4'-DDE	201612-50-2		1.63	240	227	96.0-360	94.4
13C-4,4'-DDE			1.62	246	242	98.4-369	98.3
13C-4,4'-DDD			1.59	242	238	96.6-362	98.5
13C-2,4'-DDT	104215-84-1		1.58	240	235	96.0-360	98.0
13C-4,4'-DDT			1.55	242	252	96.6-362	104

(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: _____Ting Chen_____

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: Pest8B.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_WG65521-102_Form8B_SJ2451830.html; Workgroup: WG65521; Design ID: 3361]

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: 11-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A

CS1 Data Filename: CL82_139 S: 26

CS2 Data Filename: CL82_139 S: 27

CS3 Data Filename: CL82_139 S: 24

CS4 Data Filename: CL82_139 S: 29

CS5 Data Filename: CL82_139 S: 28

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
Hexachlorobenzene			1.08	1.06	1.03	1.04	1.02	1.05	2.19
Aldrin			1.24	1.19	1.17	1.22	1.14	1.19	3.10
Chlordane, oxy-			1.21	1.10	1.12	1.08	0.97	1.10	7.88
Chlordane, gamma (trans)			1.14	1.13	1.09	1.11	1.06	1.11	3.03
Chlordane, alpha (cis)			1.13	1.10	1.08	1.07	1.03	1.08	3.37
Nonachlor, trans-			1.12	1.08	1.06	1.10	1.03	1.08	3.30
Nonachlor, cis-			1.10	1.04	1.00	1.01	0.90	1.01	7.02
2,4'-DDD			1.70	1.64	1.48	1.60	1.48	1.58	6.19
4,4'-DDD			1.25	1.23	1.20	1.24	1.24	1.23	1.64
2,4'-DDE			1.33	1.29	1.25	1.28	1.18	1.26	4.52
4,4'-DDE			1.32	1.30	1.25	1.30	1.22	1.28	3.28
2,4'-DDT			1.24	1.23	1.16	1.24	1.23	1.22	2.80
4,4'-DDT			1.49	1.47	1.43	1.49	1.50	1.48	1.81

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

(2) QC limit is 20% for native compounds with a labeled analog, 35% for those without a labeled analog.

(3) Hexachlorobutadiene is not present in the calibration standards. Reported RRF is a weighted value of 1,2,3-Trichlorobenzene based on the analysis of an external standard.

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

Signed: Brian Watson

For Axy Internal Use Only [XSL Template: Form3A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
 Report Filename: PestHR_E1_Pest_11-Oct-2018_CL82__Form3A_GS78286.html; Workgroup: WG65521; Design ID: 3361]

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: 11-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A

CS1 Data Filename: CL82_139 S: 26

CS2 Data Filename: CL82_139 S: 27

CS3 Data Filename: CL82_139 S: 24

CS4 Data Filename: CL82_139 S: 29

CS5 Data Filename: CL82_139 S: 28

CS6 Data Filename: N/A

LABELED COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
13C-Hexachlorobenzene			1.67	1.77	1.73	1.77	1.72	1.73	2.48
13C-beta-HCH			0.58	0.58	0.64	0.62	0.66	0.62	6.06
13C-gamma-HCH			0.72	0.71	0.77	0.77	0.79	0.75	4.53
13C-delta-HCH			0.52	0.52	0.60	0.58	0.65	0.57	9.80
13C-Heptachlor			0.31	0.30	0.32	0.32	0.37	0.33	8.66
13C-Aldrin			0.38	0.39	0.40	0.40	0.40	0.39	2.47
13C-Chlordane, oxy			0.08	0.09	0.09	0.10	0.12	0.10	13.6
13C-Chlordane, gamma (trans)			0.27	0.25	0.24	0.29	0.29	0.27	9.06
13C-Nonachlor, trans-			0.23	0.23	0.21	0.25	0.25	0.23	6.86
13C-Nonachlor, cis-			0.17	0.16	0.16	0.19	0.19	0.17	7.87
13C-2,4'-DDE			2.95	2.86	2.82	3.23	3.47	3.07	9.02
13C-4,4'-DDE			2.20	2.17	2.19	2.40	2.61	2.31	8.19
13C-4,4'-DDD			1.39	1.40	1.45	1.62	2.04	1.58	17.1
13C-2,4'-DDT			1.45	1.35	1.44	1.54	1.83	1.52	12.2
13C-4,4'-DDT			0.83	0.87	0.92	1.00	1.22	0.97	15.9
13C-Mirex			1.40	1.44	1.40	1.50	1.50	1.45	3.48

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

(2) QC limit is 35% for labeled compounds.

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

Signed: Brian Watson

For Axys Internal Use Only [XSL Template: Form3B.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
 Report Filename: PestHR_E1_Pest_11-Oct-2018_CL82__Form3B_GS78286.html; Workgroup: WG65521; Design ID: 3361]

Form 3C
INITIAL CALIBRATION ION ABUNDANCE 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: 11-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A

CS1 Data Filename: CL82_139 S: 26

CS2 Data Filename: CL82_139 S: 27

CS3 Data Filename: CL82_139 S: 24

CS4 Data Filename: CL82_139 S: 29

CS5 Data Filename: CL82_139 S: 28

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO	ION ABUNDANCE RATIO						QC LIMITS ²
			CS0	CS1	CS2	CS3	CS4	CS5	
Hexachlorobenzene		284/286		1.25	1.27	1.27	1.27	1.26	1.00-1.50
Aldrin		263/265		1.59	1.63	1.61	1.59	1.60	1.24-1.86
Chlordane, oxy-		263/265		1.63	1.63	1.62	1.62	1.63	1.24-1.86
Chlordane, gamma (trans)		272/274		1.31	1.26	1.29	1.27	1.28	0.99-1.49
Chlordane, alpha (cis)		272/274		1.22	1.24	1.26	1.28	1.27	0.99-1.49
Nonachlor, trans-		272/274		1.32	1.26	1.28	1.28	1.28	0.99-1.49
Nonachlor, cis-		272/274		1.30	1.23	1.25	1.25	1.24	0.99-1.49
2,4'-DDD		235/237		1.68	1.67	1.65	1.67	1.66	1.25-1.87
4,4'-DDD		235/237		1.76	1.66	1.68	1.68	1.67	1.25-1.87
2,4'-DDE		246/248		1.62	1.59	1.59	1.58	1.41	1.25-1.87
4,4'-DDE		246/248		1.63	1.61	1.60	1.59	1.48	1.25-1.87
2,4'-DDT		235/237		1.72	1.71	1.68	1.66	1.65	1.25-1.87
4,4'-DDT		235/237		1.75	1.72	1.70	1.64	1.69	1.25-1.87

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

(2) QC limits are +/- 20%.

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

Signed: _____ **Brian Watson** _____

For Axy's Internal Use Only [XSL Template: Form3C.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
 Report Filename: PestHR_E1_Pest_11-Oct-2018_CL82__Form3C_GS78286.html; Workgroup: WG65521; Design ID: 3361]

Form 3D
INITIAL CALIBRATION ION ABUNDANCE 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: 11-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A
CS1 Data Filename: CL82_139 S: 26
CS2 Data Filename: CL82_139 S: 27
CS3 Data Filename: CL82_139 S: 24
CS4 Data Filename: CL82_139 S: 29
CS5 Data Filename: CL82_139 S: 28
CS6 Data Filename: N/A

LABELED COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO	ION ABUNDANCE RATIO						QC LIMITS ²
			CS0	CS1	CS2	CS3	CS4	CS5	
13C-Hexachlorobenzene		290/292		1.30	1.29	1.29	1.30	1.31	1.00-1.50
13C-beta-HCH		223/225		0.78	0.76	0.79	0.76	0.78	0.62-0.94
13C-gamma-HCH		223/225		0.79	0.76	0.78	0.75	0.77	0.62-0.94
13C-delta-HCH		223/225		0.81	0.78	0.80	0.77	0.81	0.62-0.94
13C-Heptachlor		277/279		1.28	1.31	1.22	1.22	1.30	0.99-1.49
13C-Aldrin		270/272		1.66	1.61	1.63	1.63	1.67	1.24-1.86
13C-Chlordane, oxy		270/272		1.75	1.68	1.72	1.55	1.73	1.09-2.02
13C-Chlordane, gamma (trans)		277/279		1.26	1.28	1.30	1.24	1.35	0.99-1.49
13C-Nonachlor, trans-		277/279		1.25	1.33	1.27	1.28	1.32	0.99-1.49
13C-Nonachlor, cis-		277/279		1.24	1.32	1.32	1.27	1.45	0.99-1.49
13C-2,4'-DDE		258/260		1.57	1.57	1.55	1.57	1.57	1.25-1.87
13C-4,4'-DDE		258/260		1.56	1.59	1.56	1.59	1.55	1.25-1.87
13C-4,4'-DDD		247/249		1.55	1.55	1.56	1.57	1.57	1.25-1.87
13C-2,4'-DDT		247/249		1.57	1.60	1.56	1.56	1.58	1.25-1.87
13C-4,4'-DDT		247/249		1.55	1.54	1.57	1.56	1.57	1.25-1.87
13C-Mirex		277/279		1.26	1.27	1.26	1.31	1.28	1.00-1.50

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

(2) QC limits are +/- 20% (+/- 30% for labeled oxychlordane).

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

Signed: _____ **Brian Watson** _____

For Axs Internal Use Only [XSL Template: Form3D.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
 Report Filename: PestHR_E1_Pest_11-Oct-2018_CL82__Form3D_GS78286.html; Workgroup: WG65521; Design ID: 3361]

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: 24-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A

CS1 Data Filename: CL8B_157D S: 3

CS2 Data Filename: CL8B_157D S: 4

CS3 Data Filename: CL8B_157D S: 7

CS4 Data Filename: CL8B_157D S: 6

CS5 Data Filename: CL8B_157D S: 5

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
Hexachlorobenzene			1.17	1.10	1.09	1.12	1.09	1.11	3.09
Aldrin			1.20	1.17	1.15	1.17	1.14	1.16	1.98
Chlordane, oxy-			1.12	1.12	1.03	1.11	1.08	1.09	3.64
Chlordane, gamma (trans)			1.11	1.06	1.03	1.07	1.05	1.06	2.81
Chlordane, alpha (cis)			1.08	1.02	1.03	1.06	1.02	1.04	2.60
Nonachlor, trans-			1.10	1.06	1.02	1.05	1.03	1.05	3.13
Nonachlor, cis-			1.15	1.10	1.04	1.07	1.02	1.07	4.95
2,4'-DDD			1.43	1.38	1.33	1.38	1.37	1.38	2.69
4,4'-DDD			1.14	1.09	1.07	1.10	1.14	1.11	2.87
2,4'-DDE			1.13	1.09	1.07	1.08	1.10	1.09	2.05
4,4'-DDE			1.13	1.08	1.06	1.08	1.09	1.09	2.40
2,4'-DDT			1.14	1.08	1.08	1.10	1.11	1.10	2.02
4,4'-DDT			1.38	1.32	1.28	1.32	1.37	1.33	3.09

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

(2) QC limit is 20% for native compounds with a labeled analog, 35% for those without a labeled analog.

(3) Hexachlorobutadiene is not present in the calibration standards. Reported RRF is a weighted value of 1,2,3-Trichlorobenzene based on the analysis of an external standard.

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

Signed: _____ **David Nelson** _____

For Axy Internal Use Only [XSL Template: Form3A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
 Report Filename: PestHR_E1_Pest_24-Oct-2018_CL8B__Form3A_GS78360.html; Workgroup: WG65521; Design ID: 3361]

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: 24-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A

CS1 Data Filename: CL8B_157D S: 3

CS2 Data Filename: CL8B_157D S: 4

CS3 Data Filename: CL8B_157D S: 7

CS4 Data Filename: CL8B_157D S: 6

CS5 Data Filename: CL8B_157D S: 5

CS6 Data Filename: N/A

LABELED COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
13C-Hexachlorobenzene			1.58	1.62	1.56	1.63	1.86	1.65	7.29
13C-beta-HCH			0.75	0.70	0.66	0.73	0.84	0.74	8.81
13C-gamma-HCH			0.89	0.85	0.80	0.87	0.99	0.88	7.90
13C-delta-HCH			0.78	0.73	0.69	0.76	0.87	0.77	9.06
13C-Heptachlor			0.19	0.20	0.19	0.20	0.22	0.20	6.92
13C-Aldrin			0.48	0.47	0.45	0.47	0.53	0.48	6.07
13C-Chlordane, oxy			0.09	0.09	0.09	0.09	0.12	0.10	12.1
13C-Chlordane, gamma (trans)			0.22	0.22	0.21	0.23	0.26	0.23	8.04
13C-Nonachlor, trans-			0.18	0.17	0.17	0.18	0.20	0.18	7.21
13C-Nonachlor, cis-			0.12	0.12	0.13	0.14	0.16	0.13	10.4
13C-2,4'-DDE			3.06	3.02	2.99	3.11	3.38	3.11	4.99
13C-4,4'-DDE			2.35	2.38	2.32	2.44	2.64	2.43	5.33
13C-4,4'-DDD			1.47	1.49	1.46	1.58	2.00	1.60	14.2
13C-2,4'-DDT			0.96	1.00	1.00	1.12	1.37	1.09	15.2
13C-4,4'-DDT			0.59	0.61	0.62	0.68	0.86	0.67	16.6
13C-Mirex			1.00	1.03	1.03	1.11	1.28	1.09	10.5

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

(2) QC limit is 35% for labeled compounds.

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

Signed: David Nelson

For Axys Internal Use Only [XSL Template: Form3B.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
 Report Filename: PestHR_E1_Pest_24-Oct-2018_CL8B_Form3B_GS78360.html; Workgroup: WG65521; Design ID: 3361]

Form 3C
INITIAL CALIBRATION ION ABUNDANCE 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: 24-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A

CS1 Data Filename: CL8B_157D S: 3

CS2 Data Filename: CL8B_157D S: 4

CS3 Data Filename: CL8B_157D S: 7

CS4 Data Filename: CL8B_157D S: 6

CS5 Data Filename: CL8B_157D S: 5

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO	ION ABUNDANCE RATIO						QC LIMITS ²
			CS0	CS1	CS2	CS3	CS4	CS5	
Hexachlorobenzene		284/286		1.31	1.29	1.29	1.29	1.28	1.00-1.50
Aldrin		263/265		1.52	1.52	1.56	1.57	1.53	1.24-1.86
Chlordane, oxy-		263/265		1.51	1.57	1.55	1.54	1.52	1.24-1.86
Chlordane, gamma (trans)		272/274		1.25	1.25	1.25	1.25	1.24	0.99-1.49
Chlordane, alpha (cis)		272/274		1.25	1.24	1.27	1.25	1.25	0.99-1.49
Nonachlor, trans-		272/274		1.24	1.25	1.27	1.25	1.25	0.99-1.49
Nonachlor, cis-		272/274		1.24	1.26	1.26	1.27	1.26	0.99-1.49
2,4'-DDD		235/237		1.57	1.59	1.60	1.57	1.60	1.25-1.87
4,4'-DDD		235/237		1.58	1.56	1.58	1.57	1.58	1.25-1.87
2,4'-DDE		246/248		1.57	1.56	1.57	1.57	1.57	1.25-1.87
4,4'-DDE		246/248		1.59	1.57	1.57	1.57	1.57	1.25-1.87
2,4'-DDT		235/237		1.58	1.57	1.58	1.57	1.56	1.25-1.87
4,4'-DDT		235/237		1.53	1.57	1.59	1.57	1.59	1.25-1.87

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

(2) QC limits are +/- 20%.

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

Signed: _____ **David Nelson** _____

For Axy's Internal Use Only [XSL Template: Form3C.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
 Report Filename: PestHR_E1_Pest_24-Oct-2018_CL8B__Form3C_GS78360.html; Workgroup: WG65521; Design ID: 3361]

Form 3D
INITIAL CALIBRATION ION ABUNDANCE 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: 24-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A
CS1 Data Filename: CL8B_157D S: 3
CS2 Data Filename: CL8B_157D S: 4
CS3 Data Filename: CL8B_157D S: 7
CS4 Data Filename: CL8B_157D S: 6
CS5 Data Filename: CL8B_157D S: 5
CS6 Data Filename: N/A

LABELED COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO	ION ABUNDANCE RATIO						QC LIMITS ²
			CS0	CS1	CS2	CS3	CS4	CS5	
13C-Hexachlorobenzene		290/292		1.33	1.31	1.34	1.32	1.33	1.00-1.50
13C-beta-HCH		223/225		0.76	0.77	0.75	0.79	0.78	0.62-0.94
13C-gamma-HCH		223/225		0.80	0.78	0.76	0.77	0.77	0.62-0.94
13C-delta-HCH		223/225		0.77	0.76	0.75	0.76	0.78	0.62-0.94
13C-Heptachlor		277/279		1.27	1.33	1.26	1.25	1.34	0.99-1.49
13C-Aldrin		270/272		1.66	1.61	1.58	1.60	1.63	1.24-1.86
13C-Chlordane, oxy		270/272		1.69	1.58	1.65	1.58	1.68	1.09-2.02
13C-Chlordane, gamma (trans)		277/279		1.28	1.24	1.25	1.25	1.30	0.99-1.49
13C-Nonachlor, trans-		277/279		1.24	1.25	1.26	1.27	1.30	0.99-1.49
13C-Nonachlor, cis-		277/279		1.32	1.22	1.25	1.28	1.32	0.99-1.49
13C-2,4'-DDE		258/260		1.60	1.59	1.60	1.60	1.61	1.25-1.87
13C-4,4'-DDE		258/260		1.57	1.59	1.59	1.58	1.59	1.25-1.87
13C-4,4'-DDD		247/249		1.62	1.59	1.58	1.59	1.57	1.25-1.87
13C-2,4'-DDT		247/249		1.60	1.61	1.62	1.60	1.58	1.25-1.87
13C-4,4'-DDT		247/249		1.59	1.60	1.60	1.61	1.59	1.25-1.87
13C-Mirex		277/279		1.28	1.29	1.28	1.28	1.29	1.00-1.50

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

(2) QC limits are +/- 20% (+/- 30% for labeled oxychlordane).

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

Signed: _____ **David Nelson** _____

For Axy Internal Use Only [XSL Template: Form3D.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
 Report Filename: PestHR_E1_Pest_24-Oct-2018_CL8B__Form3D_GS78360.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4A
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: 11-Oct-2018

VER Data Filename: CL8B_157D S: 18

Instrument ID: HR GC/MS

Analysis Date: 24-Oct-2018

GC Column ID: DB5

Analysis Time: 20:03:47

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Hexachlorobenzene	118-74-1		284/286	1.30	1.00-1.50	78.5	64.0-96.0
Aldrin	309-00-2		263/265	1.57	1.24-1.86	211	166-249
Chlordane, oxy-	27304-13-8		263/265	1.56	1.24-1.86	156	128-192
Chlordane, gamma (trans)	5103-74-2		272/274	1.26	0.99-1.49	157	128-192
Chlordane, alpha (cis)	5103-71-9		272/274	1.25	0.99-1.49	157	104-217
Nonachlor, trans-	39765-80-5		272/274	1.24	0.99-1.49	133	109-163
Nonachlor, cis-	5103-73-1		272/274	1.26	0.99-1.49	159	128-192
2,4'-DDD	53-19-0		235/237	1.59	1.25-1.87	83.1	52.4-109
4,4'-DDD	72-54-8		235/237	1.60	1.25-1.87	96.2	77.6-116
2,4'-DDE	3424-82-6		246/248	1.57	1.25-1.87	79.4	64.6-97.0
4,4'-DDE	72-55-9		246/248	1.58	1.25-1.87	96.1	78.4-118
2,4'-DDT	789-02-6		235/237	1.58	1.25-1.87	79.1	63.8-95.8
4,4'-DDT	50-29-3		235/237	1.59	1.25-1.87	80.3	64.6-97.0

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

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

Signed: _____Amal Mudalige_____

For Axys Internal Use Only [XSL Template: Pest4A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL8B_157DS18__Form4A_SJ2454060.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4B
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: 11-Oct-2018

VER Data Filename: CL8B_157D S: 18

Instrument ID: HR GC/MS

Analysis Date: 24-Oct-2018

GC Column ID: DB5

Analysis Time: 20:03:47

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)
13C-Hexachlorobenzene	93952-14-8		290/292	1.33	1.00-1.50	77.8
13C-beta-HCH	222966-68-9		223/225	0.78	0.62-0.94	76.2
13C-gamma-HCH	104215-85-2		223/225	0.78	0.62-0.94	79.7
13C-delta-HCH			223/225	0.79	0.62-0.94	74.8
13C-Heptachlor			277/279	1.25	0.99-1.49	82.1
13C-Aldrin			270/272	1.62	1.24-1.86	74.8
13C-Chlordane, oxy			270/272	1.63	1.09-2.02	75.2
13C-Chlordane, gamma (trans)			277/279	1.28	0.99-1.49	82.8
13C-Nonachlor, trans-			277/279	1.26	0.99-1.49	83.3
13C-Nonachlor, cis-			277/279	1.33	0.99-1.49	81.0
13C-2,4'-DDE			258/260	1.59	1.25-1.87	84.8
13C-4,4'-DDE	201612-50-2		258/260	1.59	1.25-1.87	83.8
13C-4,4'-DDD			247/249	1.59	1.25-1.87	77.4
13C-2,4'-DDT			247/249	1.61	1.25-1.87	90.8
13C-4,4'-DDT	104215-84-1		247/249	1.60	1.25-1.87	91.2
13C-Mirex			277/279	1.28	1.00-1.50	80.5

(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: _____ Amal Mudalige _____

For Axys Internal Use Only [XSL Template: Pest4B.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL8B_157DS18__Form4B_SJ2454060.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4A
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: 11-Oct-2018

VER Data Filename: CL8B_157D S: 30

Instrument ID: HR GC/MS

Analysis Date: 25-Oct-2018

GC Column ID: DB5

Analysis Time: 03:31:33

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Hexachlorobenzene	118-74-1		284/286	1.31	1.00-1.50	78.5	64.0-96.0
Aldrin	309-00-2		263/265	1.55	1.24-1.86	211	166-249
Chlordane, oxy-	27304-13-8		263/265	1.58	1.24-1.86	163	128-192
Chlordane, gamma (trans)	5103-74-2		272/274	1.25	0.99-1.49	159	128-192
Chlordane, alpha (cis)	5103-71-9		272/274	1.27	0.99-1.49	159	104-217
Nonachlor, trans-	39765-80-5		272/274	1.26	0.99-1.49	138	109-163
Nonachlor, cis-	5103-73-1		272/274	1.28	0.99-1.49	162	128-192
2,4'-DDD	53-19-0		235/237	1.61	1.25-1.87	83.8	52.4-109
4,4'-DDD	72-54-8		235/237	1.61	1.25-1.87	98.5	77.6-116
2,4'-DDE	3424-82-6		246/248	1.57	1.25-1.87	81.5	64.6-97.0
4,4'-DDE	72-55-9		246/248	1.57	1.25-1.87	101	78.4-118
2,4'-DDT	789-02-6		235/237	1.60	1.25-1.87	82.2	63.8-95.8
4,4'-DDT	50-29-3		235/237	1.62	1.25-1.87	81.5	64.6-97.0

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

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

Signed: _____Amal Mudalige_____

For Axys Internal Use Only [XSL Template: Pest4A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL8B_157DS30_Form4A_SJ2454067.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4B
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: 11-Oct-2018

VER Data Filename: CL8B_157D S: 30

Instrument ID: HR GC/MS

Analysis Date: 25-Oct-2018

GC Column ID: DB5

Analysis Time: 03:31:33

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)
13C-Hexachlorobenzene	93952-14-8		290/292	1.34	1.00-1.50	77.5
13C-beta-HCH	222966-68-9		223/225	0.79	0.62-0.94	85.7
13C-gamma-HCH	104215-85-2		223/225	0.79	0.62-0.94	86.7
13C-delta-HCH			223/225	0.79	0.62-0.94	84.3
13C-Heptachlor			277/279	1.32	0.99-1.49	75.8
13C-Aldrin			270/272	1.63	1.24-1.86	77.4
13C-Chlordane, oxy			270/272	1.64	1.09-2.02	72.3
13C-Chlordane, gamma (trans)			277/279	1.26	0.99-1.49	88.2
13C-Nonachlor, trans-			277/279	1.28	0.99-1.49	88.6
13C-Nonachlor, cis-			277/279	1.26	0.99-1.49	83.7
13C-2,4'-DDE			258/260	1.59	1.25-1.87	94.1
13C-4,4'-DDE	201612-50-2		258/260	1.56	1.25-1.87	94.9
13C-4,4'-DDD			247/249	1.61	1.25-1.87	86.7
13C-2,4'-DDT			247/249	1.61	1.25-1.87	76.4
13C-4,4'-DDT	104215-84-1		247/249	1.61	1.25-1.87	64.8
13C-Mirex			277/279	1.29	1.00-1.50	79.5

(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: _____Amal Mudalige_____

For Axys Internal Use Only [XSL Template: Pest4B.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL8B_157DS30__Form4B_SJ2454067.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4A
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: 11-Oct-2018

VER Data Filename: CL82_142A S: 1

Instrument ID: HR GC/MS

Analysis Date: 19-Oct-2018

GC Column ID: DB5

Analysis Time: 07:19:00

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Hexachlorobenzene	118-74-1		284/286	1.26	1.00-1.50	77.6	64.0-96.0
Aldrin	309-00-2		263/265	1.54	1.24-1.86	192	166-249
Chlordane, oxy-	27304-13-8		263/265	1.53	1.24-1.86	149	128-192
Chlordane, gamma (trans)	5103-74-2		272/274	1.26	0.99-1.49	154	128-192
Chlordane, alpha (cis)	5103-71-9		272/274	1.30	0.99-1.49	149	104-217
Nonachlor, trans-	39765-80-5		272/274	1.28	0.99-1.49	135	109-163
Nonachlor, cis-	5103-73-1		272/274	1.24	0.99-1.49	173	128-192
2,4'-DDD	53-19-0		235/237	1.55	1.25-1.87	69.7	52.4-109
4,4'-DDD	72-54-8		235/237	1.60	1.25-1.87	97.9	77.6-116
2,4'-DDE	3424-82-6		246/248	1.58	1.25-1.87	79.6	64.6-97.0
4,4'-DDE	72-55-9		246/248	1.59	1.25-1.87	98.8	78.4-118
2,4'-DDT	789-02-6		235/237	1.55	1.25-1.87	78.3	63.8-95.8
4,4'-DDT	50-29-3		235/237	1.52	1.25-1.87	81.2	64.6-97.0

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

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

Signed: _____Amal Mudalige_____

For Axys Internal Use Only [XSL Template: Pest4A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL82_142AS1__Form4A_SJ2451827.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4B
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: 11-Oct-2018

VER Data Filename: CL82_142A S: 1

Instrument ID: HR GC/MS

Analysis Date: 19-Oct-2018

GC Column ID: DB5

Analysis Time: 07:19:00

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)
13C-Hexachlorobenzene	93952-14-8		290/292	1.25	1.00-1.50	79.3
13C-beta-HCH	222966-68-9		223/225	0.79	0.62-0.94	78.2
13C-gamma-HCH	104215-85-2		223/225	0.78	0.62-0.94	77.0
13C-delta-HCH			223/225	0.78	0.62-0.94	79.0
13C-Heptachlor			277/279	1.25	0.99-1.49	71.8
13C-Aldrin			270/272	1.58	1.24-1.86	74.2
13C-Chlordane, oxy			270/272	1.65	1.09-2.02	71.1
13C-Chlordane, gamma (trans)			277/279	1.32	0.99-1.49	79.9
13C-Nonachlor, trans-			277/279	1.25	0.99-1.49	74.8
13C-Nonachlor, cis-			277/279	1.22	0.99-1.49	74.1
13C-2,4'-DDE			258/260	1.66	1.25-1.87	82.4
13C-4,4'-DDE	201612-50-2		258/260	1.63	1.25-1.87	88.0
13C-4,4'-DDD			247/249	1.58	1.25-1.87	99.1
13C-2,4'-DDT			247/249	1.58	1.25-1.87	89.2
13C-4,4'-DDT	104215-84-1		247/249	1.59	1.25-1.87	94.9
13C-Mirex			277/279	1.26	1.00-1.50	83.8

(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: _____ Amal Mudalige _____

For Axys Internal Use Only [XSL Template: Pest4B.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL82_142AS1__Form4B_SJ2451827.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4A
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: 11-Oct-2018

VER Data Filename: CL82_142A S: 16

Instrument ID: HR GC/MS

Analysis Date: 19-Oct-2018

GC Column ID: DB5

Analysis Time: 16:40:45

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Hexachlorobenzene	118-74-1		284/286	1.25	1.00-1.50	78.0	64.0-96.0
Aldrin	309-00-2		263/265	1.54	1.24-1.86	188	166-249
Chlordane, oxy-	27304-13-8		263/265	1.61	1.24-1.86	158	128-192
Chlordane, gamma (trans)	5103-74-2		272/274	1.27	0.99-1.49	152	128-192
Chlordane, alpha (cis)	5103-71-9		272/274	1.29	0.99-1.49	153	104-217
Nonachlor, trans-	39765-80-5		272/274	1.28	0.99-1.49	134	109-163
Nonachlor, cis-	5103-73-1		272/274	1.22	0.99-1.49	162	128-192
2,4'-DDD	53-19-0		235/237	1.58	1.25-1.87	70.7	52.4-109
4,4'-DDD	72-54-8		235/237	1.56	1.25-1.87	95.3	77.6-116
2,4'-DDE	3424-82-6		246/248	1.58	1.25-1.87	79.4	64.6-97.0
4,4'-DDE	72-55-9		246/248	1.58	1.25-1.87	97.3	78.4-118
2,4'-DDT	789-02-6		235/237	1.57	1.25-1.87	82.2	63.8-95.8
4,4'-DDT	50-29-3		235/237	1.60	1.25-1.87	86.8	64.6-97.0

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

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

Signed: _____Amal Mudalige_____

For Axys Internal Use Only [XSL Template: Pest4A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL82_142AS16__Form4A_SJ2451841.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4B
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: 11-Oct-2018

VER Data Filename: CL82_142A S: 16

Instrument ID: HR GC/MS

Analysis Date: 19-Oct-2018

GC Column ID: DB5

Analysis Time: 16:40:45

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)
13C-Hexachlorobenzene	93952-14-8		290/292	1.27	1.00-1.50	72.9
13C-beta-HCH	222966-68-9		223/225	0.78	0.62-0.94	73.2
13C-gamma-HCH	104215-85-2		223/225	0.79	0.62-0.94	73.9
13C-delta-HCH			223/225	0.80	0.62-0.94	76.1
13C-Heptachlor			277/279	1.24	0.99-1.49	80.0
13C-Aldrin			270/272	1.59	1.24-1.86	73.5
13C-Chlordane, oxy			270/272	1.54	1.09-2.02	71.1
13C-Chlordane, gamma (trans)			277/279	1.29	0.99-1.49	79.7
13C-Nonachlor, trans-			277/279	1.24	0.99-1.49	77.7
13C-Nonachlor, cis-			277/279	1.28	0.99-1.49	80.8
13C-2,4'-DDE			258/260	1.65	1.25-1.87	80.7
13C-4,4'-DDE	201612-50-2		258/260	1.62	1.25-1.87	85.0
13C-4,4'-DDD			247/249	1.63	1.25-1.87	104
13C-2,4'-DDT			247/249	1.55	1.25-1.87	89.2
13C-4,4'-DDT	104215-84-1		247/249	1.57	1.25-1.87	89.9
13C-Mirex			277/279	1.30	1.00-1.50	84.0

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

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

Signed: _____ Amal Mudalige _____

For Axys Internal Use Only [XSL Template: Pest4B.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL82_142AS16__Form4B_SJ2451841.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4A
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: 11-Oct-2018

VER Data Filename: CL82_148A S: 2

Instrument ID: HR GC/MS

Analysis Date: 01-Nov-2018

GC Column ID: DB5

Analysis Time: 13:11:04

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Hexachlorobenzene	118-74-1		284/286	1.26	1.00-1.50	79.9	64.0-96.0
Aldrin	309-00-2		263/265	1.50	1.24-1.86	189	166-249
Chlordane, oxy-	27304-13-8		263/265	1.50	1.24-1.86	147	128-192
Chlordane, gamma (trans)	5103-74-2		272/274	1.25	0.99-1.49	153	128-192
Chlordane, alpha (cis)	5103-71-9		272/274	1.25	0.99-1.49	149	104-217
Nonachlor, trans-	39765-80-5		272/274	1.25	0.99-1.49	130	109-163
Nonachlor, cis-	5103-73-1		272/274	1.21	0.99-1.49	160	128-192
2,4'-DDD	53-19-0		235/237	1.52	1.25-1.87	69.4	52.4-109
4,4'-DDD	72-54-8		235/237	1.53	1.25-1.87	85.6	77.6-116
2,4'-DDE	3424-82-6		246/248	1.57	1.25-1.87	72.5	64.6-97.0
4,4'-DDE	72-55-9		246/248	1.55	1.25-1.87	86.8	78.4-118
2,4'-DDT	789-02-6		235/237	1.47	1.25-1.87	69.8	63.8-95.8
4,4'-DDT	50-29-3		235/237	1.50	1.25-1.87	70.6	64.6-97.0

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

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

Signed: _____Amal Mudalige_____

For Axys Internal Use Only [XSL Template: Pest4A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL82_148AS2__Form4A_SJ2458811.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4B
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: 11-Oct-2018

VER Data Filename: CL82_148A S: 2

Instrument ID: HR GC/MS

Analysis Date: 01-Nov-2018

GC Column ID: DB5

Analysis Time: 13:11:04

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)
13C-Hexachlorobenzene	93952-14-8		290/292	1.30	1.00-1.50	79.9
13C-beta-HCH	222966-68-9		223/225	0.78	0.62-0.94	80.6
13C-gamma-HCH	104215-85-2		223/225	0.78	0.62-0.94	74.7
13C-delta-HCH			223/225	0.77	0.62-0.94	73.4
13C-Heptachlor			277/279	1.25	0.99-1.49	80.9
13C-Aldrin			270/272	1.59	1.24-1.86	84.0
13C-Chlordane, oxy			270/272	1.61	1.09-2.02	80.3
13C-Chlordane, gamma (trans)			277/279	1.29	0.99-1.49	73.5
13C-Nonachlor, trans-			277/279	1.26	0.99-1.49	71.1
13C-Nonachlor, cis-			277/279	1.31	0.99-1.49	72.1
13C-2,4'-DDE			258/260	1.64	1.25-1.87	72.5
13C-4,4'-DDE	201612-50-2		258/260	1.61	1.25-1.87	79.1
13C-4,4'-DDD			247/249	1.66	1.25-1.87	76.5
13C-2,4'-DDT			247/249	1.60	1.25-1.87	74.8
13C-4,4'-DDT	104215-84-1		247/249	1.62	1.25-1.87	75.6
13C-Mirex			277/279	1.28	1.00-1.50	79.2

(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: _____ Amal Mudalige _____

For Axys Internal Use Only [XSL Template: Pest4B.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL82_148AS2__Form4B_SJ2458811.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4A
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: 11-Oct-2018

VER Data Filename: CL82_148A S: 15

Instrument ID: HR GC/MS

Analysis Date: 01-Nov-2018

GC Column ID: DB5

Analysis Time: 21:25:31

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Hexachlorobenzene	118-74-1		284/286	1.26	1.00-1.50	79.4	64.0-96.0
Aldrin	309-00-2		263/265	1.49	1.24-1.86	187	166-249
Chlordane, oxy-	27304-13-8		263/265	1.45	1.24-1.86	150	128-192
Chlordane, gamma (trans)	5103-74-2		272/274	1.28	0.99-1.49	154	128-192
Chlordane, alpha (cis)	5103-71-9		272/274	1.27	0.99-1.49	152	104-217
Nonachlor, trans-	39765-80-5		272/274	1.27	0.99-1.49	133	109-163
Nonachlor, cis-	5103-73-1		272/274	1.25	0.99-1.49	166	128-192
2,4'-DDD	53-19-0		235/237	1.53	1.25-1.87	72.2	52.4-109
4,4'-DDD	72-54-8		235/237	1.50	1.25-1.87	84.3	77.6-116
2,4'-DDE	3424-82-6		246/248	1.56	1.25-1.87	72.7	64.6-97.0
4,4'-DDE	72-55-9		246/248	1.56	1.25-1.87	87.3	78.4-118
2,4'-DDT	789-02-6		235/237	1.48	1.25-1.87	70.5	63.8-95.8
4,4'-DDT	50-29-3		235/237	1.51	1.25-1.87	72.9	64.6-97.0

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

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

Signed: _____Amal Mudalige_____

For Axys Internal Use Only [XSL Template: Pest4A.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL82_148AS15__Form4A_SJ2458816.html; Workgroup: WG65521; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4B
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: 11-Oct-2018

VER Data Filename: CL82_148A S: 15

Instrument ID: HR GC/MS

Analysis Date: 01-Nov-2018

GC Column ID: DB5

Analysis Time: 21:25:31

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)
13C-Hexachlorobenzene	93952-14-8		290/292	1.31	1.00-1.50	84.3
13C-beta-HCH	222966-68-9		223/225	0.79	0.62-0.94	85.5
13C-gamma-HCH	104215-85-2		223/225	0.79	0.62-0.94	76.0
13C-delta-HCH			223/225	0.77	0.62-0.94	75.9
13C-Heptachlor			277/279	1.26	0.99-1.49	95.6
13C-Aldrin			270/272	1.56	1.24-1.86	87.5
13C-Chlordane, oxy			270/272	1.54	1.09-2.02	84.5
13C-Chlordane, gamma (trans)			277/279	1.26	0.99-1.49	77.7
13C-Nonachlor, trans-			277/279	1.28	0.99-1.49	77.2
13C-Nonachlor, cis-			277/279	1.28	0.99-1.49	74.8
13C-2,4'-DDE			258/260	1.61	1.25-1.87	76.7
13C-4,4'-DDE	201612-50-2		258/260	1.60	1.25-1.87	79.2
13C-4,4'-DDD			247/249	1.60	1.25-1.87	76.8
13C-2,4'-DDT			247/249	1.62	1.25-1.87	77.3
13C-4,4'-DDT	104215-84-1		247/249	1.58	1.25-1.87	79.4
13C-Mirex			277/279	1.29	1.00-1.50	82.8

(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: _____ Amal Mudalige _____

For Axys Internal Use Only [XSL Template: Pest4B.xsl; Created: 05-Feb-2019 14:26:48; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL82_148AS15__Form4B_SJ2458816.html; Workgroup: WG65521; Design ID: 3361]

Accreditation Scope																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 40

Accreditation Scope				Serum		Solids								Tissue					Urine		Water		Water, Non-Potable											
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
		EPA 1699	MLA-028				Y								Y											Y							Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y			Y		Y							Y	Y				Y			Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y							Y	Y							Y		
		EPA 625	MLA-007																							Y		Y	Y		Y		Y	
	4,4'-DDT	EPA 8270	MLA-007				Y			Y	Y	Y	Y	Y	Y																			
		EPA 1699	MLA-028				Y								Y											Y							Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y	Y		Y							Y	Y				Y			Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y							Y	Y							Y		
	Aldrin	EPA 625	MLA-007																							Y		Y	Y		Y		Y	
		EPA 8270	MLA-007				Y			Y	Y	Y	Y	Y	Y																			
		EPA 1699	MLA-028				Y								Y										Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y	Y		Y							Y	Y				Y			Y		
	Alpha-HCH	SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y							Y	Y								Y	
		EPA 625	MLA-007																							Y		Y	Y		Y		Y	
		EPA 8270	MLA-007				Y			Y	Y	Y	Y	Y	Y																			
		EPA 1699	MLA-028				Y								Y										Y								Y	
	Beta-HCH	SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y	Y		Y							Y	Y				Y				Y	
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y							Y	Y								Y	
		EPA 625	MLA-007																							Y		Y	Y		Y		Y	
		EPA 8270	MLA-007				Y			Y	Y	Y	Y	Y	Y											Y							Y	
	Chlordane, technical	EPA 1699	MLA-028				Y								Y											Y								
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y	Y		Y							Y	Y				Y				Y	
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y							Y	Y								Y	
		EPA 625	MLA-007																												Y			
	cis-Chlordane (alpha-Chlordane)	EPA 8270	MLA-007				Y			Y	Y	Y	Y	Y	Y											Y		Y	Y		Y		Y	
		EPA 1699	MLA-028				Y								Y										Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y	Y		Y							Y	Y			Y					Y	
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y							Y	Y								Y	
	cis-Nonachlor	EPA 8270	MLA-007				Y					Y		Y												Y								Y
		EPA 1699	MLA-028				Y								Y										Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y	Y		Y							Y	Y				Y				Y	
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y							Y	Y								Y	
	Delta-HCH	EPA 608	MLA-007																							Y		Y	Y		Y		Y	
		EPA 8081	MLA-007				Y			Y	Y	Y	Y	Y	Y																			
		EPA 1699	MLA-028				Y								Y										Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y	Y		Y							Y	Y				Y				Y	
	Dieldrin	SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y							Y	Y								Y	
		EPA 608	MLA-007																							Y		Y	Y		Y		Y	
		EPA 8081	MLA-007				Y			Y	Y	Y	Y	Y	Y											Y								
		EPA 1699	MLA-028				Y								Y										Y								Y	
	Endosulphan I	SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y	Y		Y							Y	Y				Y				Y	
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y							Y	Y								Y	
		EPA 608	MLA-007																							Y		Y	Y		Y		Y	
		EPA 8081	MLA-007				Y			Y	Y	Y	Y	Y	Y																			
	Endosulphan II	EPA 1699	MLA-028				Y								Y										Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y	Y		Y							Y	Y				Y				Y	
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y							Y	Y								Y	
		EPA 608	MLA-007																							Y		Y	Y		Y		Y	

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 40

Accreditation Scope																				Serum									Tissue						Urine	Water	Water, Non-Potable																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
		SGS AXYS MLA-021	MLA-021		Y	Y								Y		Y							Y		Y			Y	Y			Y		
	Anthracene	EPA 1625	MLA-021																						Y								Y	
		EPA 8270	MLA-021			Y				Y	Y			Y	Y																		Y	
		SGS AXYS MLA-021	MLA-021		Y	Y									Y		Y							Y		Y							Y	
	Benz[a]anthracene	EPA 1625	MLA-021																							Y			Y	Y			Y	
		EPA 8270	MLA-021			Y				Y	Y			Y	Y																		Y	
		SGS AXYS MLA-021	MLA-021		Y	Y									Y		Y							Y		Y							Y	
	Benzo[a]pyrene	EPA 1625	MLA-021																							Y				Y	Y			Y
		EPA 8270	MLA-021			Y				Y	Y			Y	Y																		Y	
		SGS AXYS MLA-021	MLA-021		Y	Y									Y		Y							Y		Y							Y	
	Benzo[b]fluoranthene	EPA 1625	MLA-021																							Y				Y	Y		Y	Y
		EPA 8270	MLA-021			Y				Y	Y			Y	Y																		Y	
		SGS AXYS MLA-021	MLA-021		Y	Y									Y		Y							Y		Y							Y	
	Benzo[e]pyrene	SGS AXYS MLA-021	MLA-021		Y																			Y		Y								Y
	Benzo[ghi]perylene	EPA 1625	MLA-021																							Y				Y	Y			Y
		EPA 8270	MLA-021			Y				Y	Y			Y	Y																			Y
		SGS AXYS MLA-021	MLA-021		Y	Y									Y		Y							Y		Y								Y
	Benzo[j/k]fluoranthenes	SGS AXYS MLA-021	MLA-021		Y																			Y		Y								Y
	Benzo[k]fluoranthene	EPA 1625	MLA-021																							Y				Y	Y		Y	Y
		EPA 8270	MLA-021			Y				Y				Y	Y																			Y
		SGS AXYS MLA-021	MLA-021			Y									Y											Y								Y
	Biphenyl	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C1-Acenaphthenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C1-Benz(a)anthracenes/chrysenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C1-Benzofluoranthenes/ Benzopyrenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C1-Biphenyls	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C1-Dibenzothiophene	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C1-Fluoranthenes/Pyrenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C1-Fluorenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C1-Naphthalenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C1-Phenanthrenes/Anthracenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C2-Benz(a)anthracenes/Chrysenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C2-Benzofluoranthenes/ Benzopyrenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C2-Biphenyls	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C2-Dibenzothiophene	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C2-Fluoranthenes/Pyrenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C2-Fluorenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C2-Naphthalenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C2-Phenanthrenes/Anthracenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
	C3-Benz(a)anthracenes/Chrysenes	SGS AXYS MLA-021	MLA-021		Y																				Y									
C3-Dibenzothiophene	SGS AXYS MLA-021	MLA-021		Y																				Y										
C3-Fluoranthenes/Pyrenes	SGS AXYS MLA-021	MLA-021		Y																				Y										
C3-Fluorenes	SGS AXYS MLA-021	MLA-021		Y																				Y										
C3-Naphthalenes	SGS AXYS MLA-021	MLA-021		Y																				Y										
C3-Phenanthrenes/Anthracenes	SGS AXYS MLA-021	MLA-021		Y																				Y										
C4-Benz(a)anthracenes/Chrysenes	SGS AXYS MLA-021	MLA-021		Y																				Y										
C4-Dibenzothiophene	SGS AXYS MLA-021	MLA-021		Y																				Y										
C4-Fluoranthenes/Pyrenes	SGS AXYS MLA-021	MLA-021		Y																				Y										
C4-Naphthalenes	SGS AXYS MLA-021	MLA-021		Y																				Y										
C4-Phenanthrenes/Anthracenes	SGS AXYS MLA-021	MLA-021		Y																				Y										

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **				
	BDE-33 2',3,4-tribromodiphenylether	SGS AXYS MLA-033	MLA-033	Y	Y											Y							Y															
		EPA 1614	MLA-033										Y																	Y								
	"PCBs" category (CA only)	SGS AXYS MLA-033	MLA-033	Y	Y											Y							Y				Y											
		EPA 625	MLA-007																							Y												
	PCB Aroclor 1016	EPA 8270	MLA-007			Y																																
		EPA 1668	MLA-010				Y						Y	Y												Y					Y		Y					
		EPA 625	MLA-007																							Y			Y	Y		Y	Y					
		EPA 8270	MLA-007				Y			Y	Y			Y												Y												
	SGS AXYS MLA-010	MLA-010	MLA-010				Y							Y												Y							Y					
		SGS AXYS MLA-007	MLA-007		Y		Y							Y		Y						Y	Y		Y							Y						
	EPA 8270	MLA-007	MLA-007									Y											Y															
		EPA 1668	MLA-010				Y							Y	Y											Y					Y		Y					
	EPA 625	MLA-007	MLA-007																						Y			Y	Y		Y	Y						
		EPA 8270	MLA-007				Y			Y	Y	Y		Y																								
	SGS AXYS MLA-010	MLA-010	MLA-010				Y							Y												Y							Y					
		SGS AXYS MLA-007	MLA-007		Y		Y							Y		Y						Y	Y		Y							Y						
	PCB Aroclor 1232	EPA 1668	MLA-010				Y							Y	Y											Y					Y	Y						
		EPA 625	MLA-007																							Y			Y	Y		Y	Y					
		EPA 8270	MLA-007				Y			Y	Y	Y		Y																								
		SGS AXYS MLA-010	MLA-010				Y							Y												Y							Y					
	SGS AXYS MLA-007	MLA-007	MLA-007		Y		Y							Y		Y							Y	Y		Y							Y					
		EPA 1668	MLA-010				Y							Y	Y											Y					Y	Y						
	EPA 625	MLA-007	MLA-007																							Y			Y	Y		Y	Y					
		EPA 8270	MLA-007				Y			Y	Y	Y		Y																								
	SGS AXYS MLA-010	MLA-010	MLA-010				Y							Y												Y							Y					
		SGS AXYS MLA-007	MLA-007		Y		Y							Y		Y						Y	Y		Y							Y						
	PCB Aroclor 1242	EPA 1668	MLA-010				Y							Y	Y											Y					Y	Y						
		EPA 625	MLA-007																							Y			Y	Y		Y	Y					
		EPA 8270	MLA-007				Y			Y	Y		Y																									
		SGS AXYS MLA-010	MLA-010				Y							Y												Y							Y					
	SGS AXYS MLA-007	MLA-007	MLA-007		Y		Y							Y		Y							Y	Y		Y							Y					
		EPA 1668	MLA-010				Y							Y	Y											Y					Y	Y						
	EPA 625	MLA-007	MLA-007																							Y			Y	Y		Y	Y					
		EPA 8270	MLA-007				Y			Y	Y	Y		Y																								
	SGS AXYS MLA-010	MLA-010	MLA-010				Y							Y												Y							Y					
		SGS AXYS MLA-007	MLA-007		Y		Y							Y		Y						Y	Y		Y							Y						
	PCB Aroclor 1254	EPA 1668	MLA-010				Y							Y	Y								Y	Y		Y					Y	Y						
		EPA 625	MLA-007																							Y			Y	Y		Y	Y					
		EPA 8270	MLA-007				Y			Y	Y	Y		Y																								
		SGS AXYS MLA-010	MLA-010				Y							Y												Y							Y					
	SGS AXYS MLA-007	MLA-007	MLA-007		Y		Y							Y		Y						Y	Y		Y								Y					
		EPA 1668	MLA-010				Y							Y	Y											Y					Y	Y						
	EPA 625	MLA-007	MLA-007																							Y			Y	Y		Y	Y					
		EPA 8270	MLA-007				Y			Y	Y	Y		Y																								
	SGS AXYS MLA-010	MLA-010	MLA-010				Y							Y												Y							Y					
		SGS AXYS MLA-007	MLA-007		Y		Y							Y		Y						Y	Y		Y							Y						
	PCB Aroclor 1260	EPA 1668	MLA-010				Y							Y	Y											Y					Y	Y						
		EPA 625	MLA-007																							Y			Y	Y		Y	Y					
		EPA 8270	MLA-007				Y			Y	Y	Y		Y																								
		SGS AXYS MLA-010	MLA-010				Y							Y												Y							Y					
	SGS AXYS MLA-007	MLA-007	MLA-007		Y		Y							Y		Y						Y	Y		Y								Y					
		EPA 1668	MLA-010				Y							Y	Y											Y							Y					
	EPA 625	MLA-007	MLA-007																							Y			Y	Y		Y	Y					
		EPA 8270	MLA-007				Y			Y	Y	Y		Y																								
	SGS AXYS MLA-010	MLA-010	MLA-010				Y							Y												Y							Y					
		SGS AXYS MLA-007	MLA-007		Y		Y							Y		Y						Y	Y		Y							Y						
	PCB Aroclor 1268	SGS AXYS MLA-007	MLA-007		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					
	PCB 100 2,2',4,4',6-Pentachlorobiphenyl	EPA 1668	MLA-010				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	Y		Y								Y					
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y						Y	Y		Y							Y						

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Accreditation Scope				Serum										Tissue					Urine		Water		Water, Non-Potable												
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA		CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
Compound Class	PCB 131/142	EPA 8270	MLA-007										Y				Y							Y											
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											
	PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	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 132/168	EPA 8270	MLA-007										Y																						
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
	PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl	EPA 8270	MLA-007									Y																							
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y			Y		Y	Y	Y	Y		Y	Y	
	PCB 134 2,2',3,3',5,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	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							Y	
	PCB 134/143	EPA 8270	MLA-007									Y																							
		SGS AXYS MLA-007	MLA-007		Y												Y						Y		Y										
	PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	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							Y	
	PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	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		Y		Y		Y							Y	
		SGS AXYS MLA-007	MLA-007		Y												Y						Y		Y										
	PCB 137 2,2',3,4,4',5'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
		SGS AXYS MLA-007	MLA-007		Y												Y						Y		Y										
	PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	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							Y	
		SGS AXYS MLA-901	MLA-901	Y																															
	PCB 138/163/164	EPA 8270	MLA-007									Y																							
		SGS AXYS MLA-007	MLA-007		Y												Y						Y		Y										
	PCB 139 2,2',3,4,4',6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	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							Y	
	PCB 14 3,5-Dichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
	PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
	PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
	PCB 142 2,2',3,4,5,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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							Y	
	PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	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							Y	
	PCB 144 2,2',3,4,5',6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	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							Y	
	PCB 144/135	EPA 8270	MLA-007									Y																							
		SGS AXYS MLA-007	MLA-007		Y												Y						Y		Y										
	PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
	PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y				Y		Y		Y	Y	Y		Y	Y	

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 40

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum								Tissue					Urine		Water		Water, Non-Potable													
				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y	
		SGS AXYS MLA-007	MLA-007		Y											Y							Y											
		SGS AXYS MLA-901	MLA-901	Y																														
PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl		EPA 1668	MLA-010			Y		Y	Y	Y	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		Y		Y								Y	
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	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	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y	
PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl		EPA 1668	MLA-010			Y		Y	Y	Y	Y	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	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-007	MLA-007		Y											Y							Y		Y								Y	
PCB 149/139		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-007	MLA-007		Y											Y							Y		Y									
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	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 15 4,4'-Dichlorobiphenyl		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	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	Y		Y	Y	
		SGS AXYS MLA-007	MLA-007		Y							Y				Y							Y		Y									
PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl		EPA 1668	MLA-010			Y		Y	Y	Y	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		Y		Y		Y						Y	
		SGS AXYS MLA-007	MLA-007		Y											Y							Y		Y									
PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl		EPA 1668	MLA-010			Y		Y	Y	Y	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		Y		Y		Y						Y	
		SGS AXYS MLA-007	MLA-007		Y											Y							Y		Y									
PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl		EPA 1668	MLA-010			Y		Y	Y	Y	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		Y		Y		Y						Y	
		SGS AXYS MLA-007	MLA-007		Y											Y							Y		Y									
PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl		EPA 1668	MLA-010			Y		Y	Y	Y	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		Y		Y		Y						Y	
		SGS AXYS MLA-007	MLA-007		Y											Y							Y		Y									
PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl		EPA 1668	MLA-010			Y		Y	Y	Y	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		Y		Y		Y						Y	
		SGS AXYS MLA-901	MLA-901	Y																														
PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl		EPA 1668	MLA-010			Y		Y	Y	Y	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		Y		Y		Y						Y	
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y		Y						Y	
		SGS AXYS MLA-007	MLA-007		Y											Y							Y											
		SGS AXYS MLA-901	MLA-901	Y																														
PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl		EPA 1668	MLA-010			Y		Y	Y	Y	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		Y		Y		Y						Y	
		SGS AXYS MLA-007	MLA-007		Y											Y							Y		Y									
PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl		EPA 1668	MLA-010			Y		Y	Y	Y	Y	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						Y	

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SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 40					Serum	Solids										Tissue		Urine	Water	Water, Non-Potable																		
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **				
	PCB 158/160	EPA 8270	MLA-007								Y						Y																					
		SGS AXYS MLA-007	MLA-007		Y												Y							Y														
	PCB 159 2,3,3',4,5,5'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y						Y						Y		Y	Y	Y		Y	Y					
		EPA 8270	MLA-007									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-007	MLA-007		Y												Y						Y		Y													
	PCB 16 2,2',3-Trichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	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 16/32	EPA 8270	MLA-007									Y																										
		SGS AXYS MLA-007	MLA-007		Y												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	Y		Y	Y					
		SGS AXYS MLA-010	MLA-010	Y	Y		Y								Y		Y				Y		Y	Y									Y					
		SGS AXYS MLA-007	MLA-007		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	Y		Y	Y					
		EPA 8270	MLA-007									Y																										
		SGS AXYS MLA-010	MLA-010	Y	Y		Y								Y		Y				Y		Y		Y		Y						Y					
		SGS AXYS MLA-007	MLA-007		Y												Y						Y		Y													
	PCB 162 2,3,3',4',5,5'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	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		Y		Y		Y						Y					
	PCB 163 2,3,3',4',5,6-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	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						Y					
	PCB 164 2,3,3',4',5',6-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	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						Y					
	PCB 165 2,3,3',5,5',6-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	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		Y		Y		Y						Y					
	PCB 166 2,3,4,4',5,6-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	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		Y		Y		Y						Y					
PCB 167 2,3',4,4',5,5'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	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		Y		Y		Y						Y						
PCB 168 2,3',4,4',5',6-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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							Y					
PCB 169 3,3',4,4',5,5'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	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		Y		Y		Y						Y						
	SGS AXYS MLA-007	MLA-007		Y												Y																						
PCB 17 2,2',4-Trichlorobiphenyl	EPA 1668	MLA-010				Y		Y	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		Y		Y		Y						Y						
	SGS AXYS MLA-007	MLA-007		Y												Y							Y															
PCB 170 2,2',3,3',4,4',5-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	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-901	MLA-901	Y																																			
PCB 170/190	EPA 8270	MLA-007									Y																											
	SGS AXYS MLA-007	MLA-007		Y												Y																						
PCB 171 2,2',3,3',4,4',6-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y												Y		Y	Y	Y	Y		Y	Y					
	EPA 8270	MLA-007									Y																											

Accreditation Scope																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Accreditation Scope				Serum										Tissue					Urine		Water		Water, Non-Potable													
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA		Solids										CALA					CALA		CALA		California DPH											
						CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	California DPH							Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **		
	PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl	EPA 1668	MLA-010					Y			Y	Y	Y	Y	Y	Y										Y										
		EPA 8270	MLA-007											Y												Y										
	PCB 185 2,2',3,4,5,6',6-Heptachlorobiphenyl	SGS AXYS MLA-010	MLA-010	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	Y	
		EPA 8270	MLA-007											Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y		Y									Y		Y		Y		Y		Y	Y									Y		
	PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl	SGS AXYS MLA-007	MLA-007			Y												Y				Y		Y												
		EPA 1668	MLA-010					Y			Y	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		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	Y	Y			Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y		Y									Y		Y		Y		Y		Y	Y									Y		
		EPA 8270	MLA-010																																	
		SGS AXYS MLA-901	MLA-901	Y																																
	PCB 187/182	EPA 8270	MLA-007											Y																						
		SGS AXYS MLA-007	MLA-007		Y													Y				Y														
	PCB 188 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			Y	Y	
		EPA 8270	MLA-007											Y																						
		SGS AXYS MLA-010	MLA-010	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			Y	Y	
	PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl	EPA 8270	MLA-007											Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y		Y									Y		Y		Y		Y		Y	Y									Y		
		SGS AXYS MLA-007	MLA-007		Y													Y				Y		Y												
	PCB 19 2,2',6-Trichlorobiphenyl	EPA 1668	MLA-010					Y			Y	Y	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		Y		Y	Y									Y		
		SGS AXYS MLA-007	MLA-007		Y													Y				Y		Y												
	PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl	EPA 1668	MLA-010					Y			Y	Y	Y	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									Y		
		EPA 1668	MLA-010					Y			Y	Y	Y	Y	Y	Y					Y					Y			Y	Y	Y	Y			Y	
	PCB 191 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		Y		Y	Y									Y		
		SGS AXYS MLA-007	MLA-007		Y													Y				Y		Y												
	PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl	EPA 1668	MLA-010					Y			Y	Y	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									Y		
		EPA 1668	MLA-010					Y			Y	Y	Y	Y	Y	Y					Y					Y			Y	Y	Y	Y			Y	
	PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl	EPA 8270	MLA-007											Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y		Y									Y		Y		Y		Y		Y	Y									Y		
		SGS AXYS MLA-007	MLA-007		Y													Y				Y		Y												
	PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl	EPA 1668	MLA-010					Y			Y	Y	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		Y		Y	Y									Y		
		SGS AXYS MLA-007	MLA-007		Y													Y				Y		Y												
	PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl	SGS AXYS MLA-901	MLA-901	Y																																
		EPA 1668	MLA-010					Y			Y	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		Y		Y	Y									Y		
	PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl	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	Y			Y	Y
		SGS AXYS MLA-010	MLA-010	Y	Y		Y									Y		Y		Y		Y		Y	Y									Y		
PCB 196/203		EPA 8270	MLA-007											Y																						

Accreditation Scope				Serum	Solids	Tissue	Urine	Water	Water, Non-Potable																										
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID																																
				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **	
	PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl	SGS AXYS MLA-007	MLA-007		Y											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	
		EPA 8270	MLA-007									Y																							
		SGS AXYS MLA-010	MLA-010	Y	Y		Y								Y		Y		Y		Y		Y		Y								Y		
	PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl	SGS AXYS MLA-007	MLA-007			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																						
		SGS AXYS MLA-010	MLA-010	Y	Y		Y								Y		Y		Y		Y		Y		Y								Y		
	PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl	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	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y		Y								Y		Y		Y		Y		Y		Y								Y		
	PCB 2 3-Chlorobiphenyl	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	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y		Y								Y		Y		Y		Y		Y		Y								Y		
	PCB 20 2,3,3'-Trichlorobiphenyl	EPA 1668	MLA-010				Y				Y	Y	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		Y						Y		
	PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl	EPA 1668	MLA-010					Y			Y	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		Y		Y		Y		Y						Y		
	PCB 201 2,2',3,3',4,5',6'-Octachlorobiphenyl	EPA 1668	MLA-010					Y			Y	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		Y		Y		Y		Y						Y		
		SGS AXYS MLA-007	MLA-007			Y												Y						Y		Y								Y	
	PCB 202 2,2',3,3',5,5',6'-Octachlorobiphenyl	EPA 1668	MLA-010					Y			Y	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		Y		Y		Y		Y						Y		
	PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl	EPA 1668	MLA-010					Y			Y	Y	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		Y						Y		
	PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl	EPA 1668	MLA-010					Y			Y	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		Y		Y		Y		Y						Y		
	PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl	EPA 1668	MLA-010						Y		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		Y		Y		Y		Y						Y		
	PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	SGS AXYS MLA-007	MLA-007			Y												Y																	
		EPA 1668	MLA-010					Y			Y	Y	Y	Y	Y	Y									Y		Y		Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
	PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	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																						
		SGS AXYS MLA-007	MLA-007			Y												Y						Y		Y								Y	
	PCB 208 2,2',3,3',4,5,5',6'-Nonachlorobiphenyl	EPA 1668	MLA-010					Y			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		Y		Y		Y		Y						Y		
		SGS AXYS MLA-007	MLA-007			Y												Y						Y		Y									
	PCB 209 Decachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y	

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 40

ACC-103 Rev. 43, 13-Jun-2018

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

Accreditation Scope				Serum										Tissue					Urine		Water		Water, Non-Potable												
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA		CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
	PCB 49 2,2',4,5'-Tetrachlorobiphenyl	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		Y		Y									Y	
	PCB 49/43	EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-007	MLA-007		Y												Y						Y												
	PCB 5 2,3-Dichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	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 50 2,2',4,6-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
		SGS AXYS MLA-007	MLA-007		Y												Y						Y		Y										
	PCB 51 2,2',4,6'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
		SGS AXYS MLA-007	MLA-007		Y																		Y		Y										
	PCB 52 2,2',5,5'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	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							Y	
		EPA 8270	MLA-007																																
		SGS AXYS MLA-010	MLA-010	Y	Y		Y								Y		Y				Y		Y		Y		Y							Y	
	PCB 52/73	EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-007	MLA-007		Y												Y						Y		Y										
	PCB 53 2,2',5,6'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
		EPA 8270	MLA-007																																
	PCB 54 2,2',6,6'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
		EPA 8270	MLA-007																																
	PCB 55 2,3,3',4-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
		EPA 8270	MLA-007																																
	PCB 56 2,3,3',4'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	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							Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-007	MLA-007		Y												Y						Y		Y										
	PCB 57 2,3,3',5-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
		EPA 8270	MLA-007																																
	PCB 58 2,3,3',5'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
		EPA 8270	MLA-007																																
	PCB 59 2,3,3',6-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	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							Y	
		EPA 8270	MLA-007																																
		SGS AXYS MLA-010	MLA-010	Y	Y		Y										Y						Y		Y		Y								
	PCB 6 2,3'-Dichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	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		Y		Y		Y							Y	
		EPA 8270	MLA-007																																
	PCB 60 2,3,4,4'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	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							Y	
		EPA 8270	MLA-007																																
		SGS AXYS MLA-010	MLA-010	Y	Y		Y								Y		Y				Y		Y		Y		Y							Y	
	PCB 61 2,3,4,5-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-01																																	

Accreditation Scope																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Accreditation Scope				SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 40																			
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum										Tissue									
				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	Urine
		SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Pentachlorobiphenyls (BZ-83 + BZ-99)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Pentachlorobiphenyls (BZ-85 + BZ-116 + BZ-117)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Pentachlorobiphenyls (BZ-86 + BZ-87 + BZ 97 + BZ-109 + BZ-119 + BZ-125)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Pentachlorobiphenyls (BZ-86 + BZ-87 + BZ-97 + BZ-108 + BZ-119 +BZ-125)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Pentachlorobiphenyls (BZ-88 + BZ-91)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Pentachlorobiphenyls (BZ-90 + BZ-101 + BZ-113)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Pentachlorobiphenyls (BZ-93 + BZ-95 + BZ-98 + BZ-100 + BZ-102)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Tetrachlorobiphenyls (BZ-40 + BZ-41 + BZ-71)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Tetrachlorobiphenyls (BZ-44 + BZ-47 + BZ-65)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Tetrachlorobiphenyls (BZ-45 + BZ-51)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Tetrachlorobiphenyls (BZ-49 + BZ-69)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Tetrachlorobiphenyls (BZ-50 + BZ-53)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Tetrachlorobiphenyls (BZ-59 + BZ-62 + BZ-75)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Tetrachlorobiphenyls (BZ-61 + BZ-70 + BZ-74 + BZ-76)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Trichlorobiphenyls (BZ-18 + BZ-30)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Trichlorobiphenyls (BZ-20 + BZ-28)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Trichlorobiphenyls (BZ-21 + BZ-33)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Sum - Trichlorobiphenyls (BZ-26 + BZ-29)	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
	Total Dichlorobiphenyls	SGS AXYS MLA-010	MLA-010											Y									
		EPA 1668	MLA-010											Y									
		EPA 8270	MLA-007										Y										
		SGS AXYS MLA-010	MLA-010	Y	Y								Y	Y		Y		Y	Y				Y
	Total Heptachlorobiphenyls	SGS AXYS MLA-007	MLA-007			Y								Y				Y					
		EPA 1668	MLA-010											Y				Y					Y
		EPA 8270	MLA-007									Y											
		SGS AXYS MLA-010	MLA-010	Y	Y								Y	Y		Y		Y	Y				Y
	Total Hexachlorobiphenyls	SGS AXYS MLA-007	MLA-007			Y								Y				Y					
		EPA 1668	MLA-010										Y					Y					Y
		EPA 8270	MLA-007									Y											
		SGS AXYS MLA-010	MLA-010	Y	Y								Y	Y		Y		Y	Y				Y
	Total Monochlorobiphenyls	SGS AXYS MLA-007	MLA-007			Y								Y				Y					
		EPA 1668	MLA-010											Y				Y					Y

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 40

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **		
	Total Nonachlorobiphenyls	SGS AXYS MLA-010	MLA-010	Y	Y									Y		Y				Y		Y		Y									Y			
		EPA 1668	MLA-010												Y						Y												Y			
		EPA 8270	MLA-007									Y																								
		SGS AXYS MLA-010	MLA-010	Y	Y										Y		Y				Y		Y										Y			
	Total Octachlorobiphenyls	SGS AXYS MLA-007	MLA-007		Y												Y							Y												
		EPA 1668	MLA-010												Y								Y											Y		
		EPA 8270	MLA-007									Y																								
		SGS AXYS MLA-010	MLA-010	Y	Y										Y		Y				Y		Y		Y								Y			
	Total PCBs	SGS AXYS MLA-007	MLA-007		Y												Y							Y											Y	
		EPA 1668	MLA-010												Y								Y												Y	
		SGS AXYS MLA-010	MLA-010												Y								Y											Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											Y	
	Total Pentachlorobiphenyls	EPA 1668	MLA-010												Y								Y												Y	
		EPA 8270	MLA-007										Y																							
		SGS AXYS MLA-010	MLA-010	Y	Y										Y		Y				Y		Y		Y									Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											Y	
	Total Polychlorinated biphenyls	EPA 1668	MLA-010												Y								Y												Y	
		EPA 8270	MLA-007										Y																							
		SGS AXYS MLA-010	MLA-010	Y	Y										Y		Y				Y		Y		Y									Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y												Y
	Total Tetrachlorobiphenyls	EPA 1668	MLA-010												Y								Y												Y	
		EPA 8270	MLA-007										Y																							
		SGS AXYS MLA-010	MLA-010	Y	Y										Y		Y				Y		Y		Y									Y		
SGS AXYS MLA-007		MLA-007		Y												Y							Y												Y	
Total Trichlorobiphenyls	EPA 1668	MLA-010												Y								Y												Y		
	EPA 8270	MLA-007										Y																								
	SGS AXYS MLA-010	MLA-010	Y	Y										Y		Y				Y		Y		Y									Y			
	SGS AXYS MLA-007	MLA-007		Y												Y							Y												Y	
PCDDF	"Dioxins and Dibenzofurans" category (CA only)	SGS AXYS MLA-007	MLA-007		Y											Y									Y											
		EPA 1613	MLA-017																						Y											
		EPA 8290	MLA-017			Y																														
	1,2,3,4,6,7,8-HpCDD	EPA 1613	MLA-017									Y		Y							Y					Y		Y	Y	Y	Y	Y	Y	Y		
		EPA 8290	MLA-017				Y		Y	Y	Y		Y	Y			Y		Y	Y	Y	Y				Y		Y	Y					Y		
		SGS AXYS MLA-017	MLA-017	Y	Y	Y									Y		Y	Y			Y		Y		Y									Y		
	1,2,3,4,6,7,8-HpCDF	EPA 1613	MLA-017									Y		Y							Y					Y		Y	Y	Y	Y	Y	Y	Y		
		EPA 8290	MLA-017			Y		Y	Y	Y	Y		Y	Y			Y		Y	Y	Y	Y				Y		Y	Y					Y		
		SGS AXYS MLA-017	MLA-017	Y	Y	Y									Y		Y	Y			Y		Y		Y				Y	Y				Y		
	1,2,3,4,7,8,9-HpCDF	EPA 1613	MLA-017									Y		Y							Y					Y		Y	Y	Y	Y	Y	Y	Y		
		EPA 8290	MLA-017				Y		Y	Y	Y		Y	Y			Y		Y	Y	Y	Y				Y		Y	Y					Y		
		SGS AXYS MLA-017	MLA-017	Y	Y	Y									Y		Y	Y			Y		Y		Y				Y	Y					Y	
	1,2,3,4,7,8-HxCDD	EPA 1613	MLA-017									Y		Y							Y					Y		Y	Y	Y	Y	Y	Y	Y		
		EPA 8290	MLA-017				Y		Y	Y	Y		Y	Y			Y		Y	Y	Y	Y				Y		Y	Y					Y		
		SGS AXYS MLA-017	MLA-017	Y	Y	Y									Y		Y	Y			Y		Y		Y				Y	Y					Y	
	1,2,3,4,7,8-HxCDF	EPA 1613	MLA-017									Y		Y							Y					Y		Y	Y	Y	Y	Y	Y	Y		
		EPA 8290	MLA-017				Y		Y	Y	Y		Y	Y			Y		Y	Y	Y	Y				Y		Y	Y					Y		
		SGS AXYS MLA-017	MLA-017	Y	Y	Y									Y		Y	Y			Y		Y		Y				Y	Y					Y	
	1,2,3,6,7,8-HxCDD	EPA 1613	MLA-017									Y		Y							Y					Y		Y	Y	Y	Y	Y	Y	Y		
		EPA 8290	MLA-017				Y		Y	Y	Y		Y	Y			Y		Y	Y	Y	Y				Y		Y	Y					Y		
		SGS AXYS MLA-017	MLA-017	Y	Y	Y									Y		Y	Y			Y		Y		Y				Y	Y					Y	
	1,2,3,6,7,8-HxCDF	EPA 1613	MLA-017									Y		Y							Y					Y		Y	Y	Y	Y	Y	Y	Y		
		EPA 8290	MLA-017				Y		Y	Y	Y		Y	Y			Y		Y	Y	Y	Y				Y		Y	Y					Y		
SGS AXYS MLA-017		MLA-017	Y	Y	Y									Y		Y	Y			Y		Y		Y				Y	Y					Y		
1,2,3,7,8,9-HxCDD	EPA 1613	MLA-017									Y		Y							Y					Y		Y	Y	Y	Y	Y	Y	Y			
	EPA 8290	MLA-017				Y		Y	Y	Y		Y	Y			Y		Y	Y	Y	Y				Y		Y	Y					Y			
	SGS AXYS MLA-017	MLA-017	Y	Y	Y									Y		Y	Y			Y		Y		Y				Y	Y					Y		

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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 40

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **	
1,2,3,7,8,9-HxCDF	EPA 1613	MLA-017										Y	Y								Y			Y	Y	Y	Y	Y	Y	Y	Y	Y			
	EPA 8290	MLA-017				Y			Y	Y	Y		Y	Y			Y		Y	Y	Y			Y		Y	Y					Y			
	SGS AXYS MLA-017	MLA-017	Y	Y		Y								Y			Y	Y			Y	Y	Y	Y			Y	Y				Y			
1,2,3,7,8-PeCDD	EPA 1613	MLA-017										Y		Y							Y			Y		Y	Y	Y	Y	Y	Y	Y	Y		
	EPA 8290	MLA-017				Y			Y	Y	Y		Y	Y			Y		Y	Y	Y			Y		Y	Y					Y			
	SGS AXYS MLA-017	MLA-017	Y	Y		Y								Y			Y	Y			Y	Y	Y	Y			Y	Y				Y			
1,2,3,7,8-PeCDF	EPA 1613	MLA-017										Y		Y							Y			Y		Y	Y	Y	Y	Y	Y	Y	Y		
	EPA 8290	MLA-017				Y			Y	Y	Y		Y	Y			Y		Y	Y	Y			Y		Y	Y					Y			
	SGS AXYS MLA-017	MLA-017	Y	Y		Y								Y			Y	Y			Y	Y	Y	Y			Y	Y				Y			
2,3,4,6,7,8-HxCDF	EPA 1613	MLA-017										Y		Y							Y			Y		Y	Y	Y	Y	Y	Y	Y	Y		
	EPA 8290	MLA-017				Y			Y	Y	Y		Y	Y			Y		Y	Y	Y			Y		Y	Y					Y			
	SGS AXYS MLA-017	MLA-017	Y	Y		Y								Y			Y	Y			Y	Y	Y	Y			Y	Y				Y			
2,3,4,7,8-PeCDF	EPA 1613	MLA-017										Y		Y							Y			Y		Y	Y	Y	Y	Y	Y	Y	Y		
	EPA 8290	MLA-017				Y			Y	Y	Y		Y	Y			Y		Y	Y	Y			Y		Y	Y					Y			
	SGS AXYS MLA-017	MLA-017	Y	Y		Y								Y			Y	Y			Y	Y	Y	Y			Y	Y				Y			
2,3,7,8-TCDD	EPA 1613	MLA-017										Y		Y							Y			Y		Y	Y	Y	Y	Y	Y	Y	Y		
	EPA 8290	MLA-017				Y			Y	Y	Y		Y	Y			Y		Y	Y	Y			Y		Y	Y					Y			
	SGS AXYS MLA-017	MLA-017	Y	Y		Y								Y			Y	Y			Y	Y	Y	Y			Y	Y				Y			
2,3,7,8-TCDF	EPA 1613	MLA-017										Y		Y							Y			Y		Y	Y	Y	Y	Y	Y	Y	Y		
	EPA 8290	MLA-017				Y			Y	Y	Y		Y	Y			Y		Y	Y	Y			Y		Y	Y					Y			
	SGS AXYS MLA-017	MLA-017	Y	Y		Y								Y			Y	Y			Y	Y	Y	Y			Y	Y				Y			
OCDD	EPA 1613	MLA-017										Y		Y							Y			Y		Y	Y	Y	Y	Y	Y	Y	Y		
	EPA 8290	MLA-017				Y			Y	Y	Y		Y	Y			Y		Y	Y	Y			Y		Y	Y					Y			
	SGS AXYS MLA-017	MLA-017	Y	Y		Y								Y			Y	Y			Y	Y	Y	Y			Y	Y				Y			
OCDF	EPA 1613	MLA-017										Y		Y							Y			Y		Y	Y	Y	Y	Y	Y	Y	Y		
	EPA 8290	MLA-017				Y			Y	Y	Y		Y	Y			Y		Y	Y	Y			Y		Y	Y					Y			
	SGS AXYS MLA-017	MLA-017	Y	Y		Y								Y			Y	Y			Y	Y	Y	Y			Y	Y				Y			
Total HpCDD	EPA 1613	MLA-017												Y							Y			Y							Y	Y	Y		
	EPA 8290	MLA-017				Y			Y		Y		Y	Y			Y		Y	Y	Y			Y			Y					Y			
	SGS AXYS MLA-017	MLA-017				Y								Y			Y				Y	Y	Y	Y			Y					Y			
Total HpCDF	EPA 1613	MLA-017												Y							Y			Y							Y	Y	Y		
	EPA 8290	MLA-017				Y			Y		Y		Y	Y			Y		Y	Y	Y			Y			Y					Y			
	SGS AXYS MLA-017	MLA-017				Y								Y			Y				Y	Y	Y	Y			Y					Y			
Total HxCDD	EPA 1613	MLA-017												Y							Y			Y							Y	Y	Y		
	EPA 8290	MLA-017				Y			Y		Y		Y	Y			Y		Y	Y	Y			Y			Y					Y			
	SGS AXYS MLA-017	MLA-017				Y								Y			Y				Y	Y	Y	Y			Y					Y			
Total HxCDF	EPA 1613	MLA-017												Y							Y			Y							Y	Y	Y		
	EPA 8290	MLA-017				Y			Y		Y		Y	Y			Y		Y	Y	Y			Y			Y					Y			
	SGS AXYS MLA-017	MLA-017				Y								Y			Y				Y	Y	Y	Y			Y					Y			
Total PCDD	EPA 1613	MLA-017												Y							Y											Y	Y	Y	
	EPA 8290	MLA-017												Y							Y											Y	Y	Y	
	SGS AXYS MLA-017	MLA-017												Y							Y	Y	Y	Y								Y	Y	Y	
Total PCDD+PCDF	EPA 1613	MLA-017												Y							Y											Y	Y	Y	
	EPA 8290	MLA-017												Y							Y											Y	Y	Y	
	SGS AXYS MLA-017	MLA-017												Y							Y	Y	Y	Y								Y	Y	Y	
Total PCDF	EPA 1613	MLA-017												Y							Y											Y	Y	Y	
	EPA 8290	MLA-017												Y							Y											Y	Y	Y	
	SGS AXYS MLA-017	MLA-017												Y							Y	Y	Y	Y								Y	Y	Y	
Total PeCDD	EPA 1613	MLA-017												Y							Y			Y							Y	Y	Y	Y	
	EPA 8290	MLA-017												Y							Y			Y							Y	Y	Y	Y	
	SGS AXYS MLA-017	MLA-017												Y							Y	Y	Y	Y								Y	Y	Y	Y

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SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 40				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **	
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID																																
	Total PeCDF	SGS AXYS MLA-017	MLA-017			Y								Y			Y		Y		Y				Y					Y		Y			
		EPA 1613	MLA-017											Y							Y				Y					Y		Y			
		EPA 8290	MLA-017			Y		Y		Y		Y	Y				Y		Y	Y	Y				Y			Y				Y			
		SGS AXYS MLA-017	MLA-017			Y								Y			Y				Y				Y							Y			
	Total TCDD	EPA 1613	MLA-017											Y							Y				Y					Y		Y			
		EPA 8290	MLA-017			Y		Y		Y		Y	Y				Y		Y	Y	Y				Y			Y				Y			
		SGS AXYS MLA-017	MLA-017			Y								Y			Y				Y				Y					Y			Y		
		EPA 1613	MLA-017											Y							Y				Y					Y		Y			
	Total TCDF	EPA 8290	MLA-017			Y		Y		Y		Y	Y				Y		Y	Y	Y				Y			Y			Y		Y		
		SGS AXYS MLA-017	MLA-017			Y								Y			Y				Y				Y							Y		Y	
		EPA 1613	MLA-017											Y							Y				Y					Y		Y		Y	
		EPA 8290	MLA-017			Y		Y		Y		Y	Y				Y		Y	Y	Y				Y			Y			Y		Y		
PFAS	4:2 Fluorotelomersulfonate (4:2 FTS)	SGS AXYS MLA-081	MLA-081																														Y		
		SGS AXYS MLA-089	MLA-089											Y																					
		SGS AXYS MLA-110	MLA-110		Y	Y						Y	Y	Y									Y	Y		Y			Y		Y	Y	Y		
		SGS AXYS MLA-089	MLA-089											Y																			Y		
	6:2 Fluorotelomersulfonate (6:2 FTS)	SGS AXYS MLA-110	MLA-110		Y	Y						Y	Y	Y									Y	Y		Y			Y		Y	Y			
		SGS AXYS MLA-089	MLA-089											Y																			Y		
		SGS AXYS MLA-110	MLA-110		Y	Y						Y	Y	Y									Y	Y		Y			Y		Y	Y			
		SGS AXYS MLA-089	MLA-089											Y																					
	8:2 Fluorotelomersulfonate (8:2 FTS)	SGS AXYS MLA-110	MLA-110		Y	Y						Y	Y	Y									Y	Y		Y						Y			
		SGS AXYS MLA-089	MLA-089											Y																					
		SGS AXYS MLA-110	MLA-110		Y	Y						Y	Y	Y									Y	Y		Y						Y	Y		
		SGS AXYS MLA-060	MLA-060																				Y	Y		Y									
	N-Ethylperfluorooctanesulfonamide (N-EtFOSA)	SGS AXYS MLA-110	MLA-110		Y							Y											Y			Y									
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	SGS AXYS MLA-110	MLA-110		Y	Y						Y	Y	Y									Y	Y		Y					Y	Y			
	N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE)	SGS AXYS MLA-110	MLA-110		Y							Y											Y			Y									
	N-Methylperfluorooctanesulfonamide (N-MeFOSA)	SGS AXYS MLA-110	MLA-110		Y							Y											Y			Y									
	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	SGS AXYS MLA-110	MLA-110		Y	Y						Y	Y	Y									Y	Y		Y					Y	Y			
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	SGS AXYS MLA-110	MLA-110		Y							Y											Y			Y									
	Perfluorobutanesulfonate (PFBS)	SGS AXYS MLA-041	MLA-041		Y	Y	Y	Y						Y												Y	Y	Y	Y			Y			
		SGS AXYS MLA-043	MLA-043														Y	Y	Y	Y	Y	Y													
		SGS AXYS MLA-042	MLA-042	Y																															
		SGS AXYS MLA-110	MLA-110		Y	Y	Y					Y	Y	Y									Y	Y		Y			Y		Y	Y			
	Perfluorobutanoate (PFBA)	SGS AXYS MLA-060	MLA-060																				Y			Y	Y	Y				Y			
		SGS AXYS MLA-041	MLA-041		Y	Y	Y	Y						Y																					
		SGS AXYS MLA-043	MLA-043														Y	Y	Y	Y	Y	Y													
		SGS AXYS MLA-042	MLA-042	Y																															
	Perfluorodecanesulfonate (PFDS)	SGS AXYS MLA-110	MLA-110		Y	Y	Y					Y	Y	Y									Y	Y		Y					Y	Y			
		SGS AXYS MLA-110	MLA-110		Y	Y						Y	Y	Y									Y	Y		Y					Y	Y			
		SGS AXYS MLA-060	MLA-060																				Y			Y	Y	Y				Y			
		SGS AXYS MLA-041	MLA-041		Y	Y	Y	Y						Y																					
	Perfluorodecanoate (PFDA)	SGS AXYS MLA-043	MLA-043														Y	Y	Y	Y	Y	Y													
		SGS AXYS MLA-042	MLA-042	Y																															
		SGS AXYS MLA-110	MLA-110		Y	Y	Y					Y	Y	Y									Y	Y		Y					Y	Y			
		SGS AXYS MLA-110	MLA-110		Y							Y											Y												
	Perfluorododecanesulfonate (PFDoS)	SGS AXYS MLA-060	MLA-060																																
		SGS AXYS MLA-041	MLA-041		Y	Y	Y	Y						Y																					
		SGS AXYS MLA-043	MLA-043														Y	Y	Y	Y	Y	Y													
		SGS AXYS MLA-042	MLA-042	Y																															
	Perfluorododecanoate (PFDoA)	SGS AXYS MLA-110	MLA-110		Y	Y	Y					Y	Y	Y									Y	Y		Y					Y	Y			
		SGS AXYS MLA-060	MLA-060																																
		SGS AXYS MLA-041	MLA-041		Y	Y	Y	Y						Y																					
		SGS AXYS MLA-043	MLA-043														Y	Y	Y	Y	Y	Y													
	Perfluoroheptanesulfonate (PFHpS)	SGS AXYS MLA-042	MLA-042	Y																															
		SGS AXYS MLA-110	MLA-110		Y	Y	Y					Y	Y	Y									Y	Y		Y					Y	Y			
		SGS AXYS MLA-110	MLA-110		Y	Y						Y	Y	Y									Y	Y		Y					Y	Y			
		SGS AXYS MLA-060	MLA-060																				Y	Y		Y					Y				
	Perfluoroheptanoate (PFHpA)	SGS AXYS MLA-041	MLA-041		Y	Y	Y	Y						Y																					

Accreditation Scope																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Accreditation Scope

SGS AXYS Analytical Services Ltd.

file ref.: ACC-101 Rev. 40

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SGS AXYS Analytical Services Ltd.																																		
file ref.: ACC-101 Rev. 40																																		
				Serum		Solids							Tissue			Urine		Water		Water, Non-Potable														
				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID																															
	2-hydroxy-ibuprofen	SGS AXYS MLA-075	MLA-075		Y																	Y												
	4-Epianhydrochlortetracycline (EACTC)	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	4-Epianhydrotetracycline (EATC)	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	4-Epichlortetracycline (ECTC)	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	4-Epioxytetracycline (EOTC)	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	4-Epitetracycline (ETC)	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Acetaminophen	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Albuterol	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Alprazolam	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Amitriptyline	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Amlodipine	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Amphetamine	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Anhydrochlortetracycline (ACTC)	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Anhydrotetracycline (ATC)	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Atenolol	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Atorvastatin	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Azithromycin	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Benzoyllecgonine	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Benztropine	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Betamethasone	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Bisphenol A	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Caffeine	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Carbadox	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Carbamazepine	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Cefotaxime	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Chlortetracycline (CTC)	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Cimetidine	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Ciprofloxacin	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Clarithromycin	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Clinafloxacin	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum		Tissue	Urine	Water	Water, Non-Potable
				CALA	CALA California DPH Florida DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE Maine DOH ANAB ISO 17025 ANAB DoD **		CALA	CALA	
	Clonidine	SGS AXYS MLA-075	MLA-075		Y			Y	
	Cloxacillin	EPA 1694	MLA-075			Y			Y
		SGS AXYS MLA-075	MLA-075		Y			Y	
	Cocaine	SGS AXYS MLA-075	MLA-075		Y			Y	
	Codeine	EPA 1694	MLA-075			Y			Y
		SGS AXYS MLA-075	MLA-075		Y			Y	
	Cotinine	EPA 1694	MLA-075			Y			Y
		SGS AXYS MLA-075	MLA-075		Y			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			Y	
	Demeclocycline	EPA 1694	MLA-075			Y			Y
		SGS AXYS MLA-075	MLA-075		Y			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			Y	
	Digoxin	EPA 1694	MLA-075			Y			Y
		SGS AXYS MLA-075	MLA-075		Y			Y	
	Diltiazem	EPA 1694	MLA-075			Y			Y
		SGS AXYS MLA-075	MLA-075		Y			Y	
	Diphenhydramine	EPA 1694	MLA-075			Y			Y
		SGS AXYS MLA-075	MLA-075		Y			Y	
	Doxycycline	EPA 1694	MLA-075			Y			Y
		SGS AXYS MLA-075	MLA-075		Y			Y	
	Enalapril	EPA 1694	MLA-075			Y			Y
		SGS AXYS MLA-075	MLA-075		Y			Y	
	Enrofloxacin	EPA 1694	MLA-075			Y			Y
		SGS AXYS MLA-075	MLA-075		Y			Y	
	Erythromycin	SGS AXYS MLA-075	MLA-075		Y			Y	
	Erythromycin anhydrate	EPA 1694	MLA-075			Y			Y
	Flumequine	EPA 1694	MLA-075			Y			Y
		SGS AXYS MLA-075	MLA-075		Y			Y	
	Fluocinonide	SGS AXYS MLA-075	MLA-075		Y			Y	
	Fluoxetine	EPA 1694	MLA-075			Y			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			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			Y
		SGS AXYS MLA-075	MLA-075		Y			Y	
	Isochlortetracycline (ICTC)	EPA 1694	MLA-075			Y			Y
		SGS AXYS MLA-075	MLA-075		Y			Y	
	Lincomycin	EPA 1694	MLA-075			Y			Y

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Lomefloxacin	EPA 1694	MLA-075									Y																			Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Meprobamate	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Metformin	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Methylprednisolone	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Metoprolol	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Miconazole	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Minocycline	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Naproxen	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Norfloxacin	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Norfluoxetine	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Norgestimate	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Norverapamil	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Ofloxacin	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Ormetoprim	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Oxacillin	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Oxolinic acid	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Oxycodone	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Oxytetracycline (OTC)	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Paroxetine	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Penicillin G	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Penicillin V	EPA 1694	MLA-075									Y																		Y				
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Prednisolone	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Prednisone	SGS AXYS MLA-075	MLA-075		Y																		Y											
Promethazine	SGS AXYS MLA-075	MLA-075		Y																		Y												
Propoxyphene	SGS AXYS MLA-075	MLA-075		Y																		Y												
Propranolol	SGS AXYS MLA-075	MLA-075		Y																		Y												
Ranitidine	EPA 1694	MLA-075										Y																	Y					
	SGS AXYS MLA-075	MLA-075		Y																		Y												
Roxithromycin	EPA 1694	MLA-075										Y																	Y					
	SGS AXYS MLA-075	MLA-075		Y																		Y												
Sarafloxacin	EPA 1694	MLA-075										Y																	Y					
	SGS AXYS MLA-075	MLA-075		Y																		Y												
Sertraline	SGS AXYS MLA-075	MLA-075		Y																		Y												
Simvastatin	SGS AXYS MLA-075	MLA-075		Y																		Y												
Sulfachloropyridazine	EPA 1694	MLA-075										Y																	Y					
	SGS AXYS MLA-075	MLA-075		Y																		Y												
Sulfadiazine	EPA 1694	MLA-075										Y																	Y					
	SGS AXYS MLA-075	MLA-075		Y																		Y												
Sulfadimethoxine	EPA 1694	MLA-075										Y																	Y					
	SGS AXYS MLA-075	MLA-075		Y																		Y												

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SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 40																																	
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum		Solids								Tissue		Urine		Water		Water, Non-Potable													
				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025
Compound Class	Sulfamerazine	EPA 1694	MLA-075										Y																				
		SGS AXYS MLA-075	MLA-075		Y														Y														
	Sulfamethazine	EPA 1694	MLA-075										Y											Y							Y		
		SGS AXYS MLA-075	MLA-075		Y															Y													
	Sulfamethizole	EPA 1694	MLA-075										Y																			Y	
		SGS AXYS MLA-075	MLA-075		Y																Y												
	Sulfamethoxazole	EPA 1694	MLA-075										Y																			Y	
		SGS AXYS MLA-075	MLA-075		Y																Y												
	Sulfanilamide	EPA 1694	MLA-075										Y																			Y	
		SGS AXYS MLA-075	MLA-075		Y																Y												
	Sulfathiazole	EPA 1694	MLA-075										Y																			Y	
		SGS AXYS MLA-075	MLA-075		Y																Y												
	Tetracycline (TC)	EPA 1694	MLA-075										Y																			Y	
		SGS AXYS MLA-075	MLA-075		Y																Y												
	Theophylline	SGS AXYS MLA-075	MLA-075		Y																Y												
	Thiabendazole	EPA 1694	MLA-075										Y																			Y	
		SGS AXYS MLA-075	MLA-075		Y																Y												
	Trenbolone	SGS AXYS MLA-075	MLA-075		Y																Y												
	Trenbolone acetate	SGS AXYS MLA-075	MLA-075		Y																Y												
	Triamterene	SGS AXYS MLA-075	MLA-075		Y																Y												
	Triclocarban	EPA 1694	MLA-075										Y																			Y	
		SGS AXYS MLA-075	MLA-075		Y																Y												
	Triclosan	EPA 1694	MLA-075										Y																			Y	
		SGS AXYS MLA-075	MLA-075		Y																Y												
	Trimethoprim	EPA 1694	MLA-075										Y																			Y	
		SGS AXYS MLA-075	MLA-075		Y																Y												
	Tylosin	EPA 1694	MLA-075										Y																			Y	
		SGS AXYS MLA-075	MLA-075		Y																Y												
	Valsartan	SGS AXYS MLA-075	MLA-075		Y																Y												
	Verapamil	SGS AXYS MLA-075	MLA-075		Y																Y												
	Virginiamycin	EPA 1694	MLA-075										Y																			Y	
		SGS AXYS MLA-075	MLA-075		Y																Y												
	Warfarin	EPA 1694	MLA-075										Y																			Y	
		SGS AXYS MLA-075	MLA-075		Y																Y												
Targeted Metabolites	11, 14, 17-eicosatrienoic acid (eicosatrienoic acid)	SGS AXYS MLM-001	MLM-001											Y																			
	11, 14-eicosadienoic acid	SGS AXYS MLM-001	MLM-001											Y																			
	3-hydroxytyrosine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Acetylcarnitine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Acetylmethionine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Alanine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	alpha-Aminoadipic acid	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Arginine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Asparagine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Aspartate	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Asymmetric dimethylarginine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Butenylcarnitine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Butyrylcarnitine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid)	SGS AXYS MLM-001	MLM-001											Y																			
	C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA)	SGS AXYS MLM-001	MLM-001											Y																			
	C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid)	SGS AXYS MLM-001	MLM-001											Y																			
	Carnitine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Carnosine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	chenodeoxycholic acid	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	cholic acid	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Citrulline	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Creatinine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	Decadienylcarnitine	SGS AXYS MLM-001	MLM-001		Y									Y							Y												
	decanoic acid (capric acid)	SGS AXYS MLM-001	MLM-001											Y																			

Accreditation Scope				Serum		Solids		Tissue		Urine		Water		Water, Non-Potable	
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **
	Decanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y	Y										
	Decenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	deoxycholic acid	SGS AXYS MLM-001	MLM-001	Y											
	docosahexaenoic acid (DHA)	SGS AXYS MLM-001	MLM-001												
	docosatetraenoic acid (adrenic acid)	SGS AXYS MLM-001	MLM-001												
	Dodecanedioylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Dodecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Dodecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Dopamine	SGS AXYS MLM-001	MLM-001	Y											
	eicosapentaenoic acid (EPA)	SGS AXYS MLM-001	MLM-001												
	Eicosatetraenoic acid (arachidonic acid)	SGS AXYS MLM-001	MLM-001												
	eicosatrienoic acid (dihomo-γ-linolenic acid)	SGS AXYS MLM-001	MLM-001												
	Glutaconylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Glutamate	SGS AXYS MLM-001	MLM-001	Y											
	Glutamine	SGS AXYS MLM-001	MLM-001	Y											
	Glutaryl carnitine (Hydroxyhexanoylcarnitine)	SGS AXYS MLM-001	MLM-001	Y											
	Glycine	SGS AXYS MLM-001	MLM-001	Y											
	glycochenodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y											
	glycocholic acid	SGS AXYS MLM-001	MLM-001	Y											
	glycodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y											
	Hexadecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	hexadecanoic acid (palmitic acid)	SGS AXYS MLM-001	MLM-001												
	Hexadecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	hexadecenoic acid (palmitoleic acid)	SGS AXYS MLM-001	MLM-001												
	Hexadecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Hexanoylcarnitine (Fumaryl carnitine)	SGS AXYS MLM-001	MLM-001	Y											
	Hexenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Hexose (sum isomers)	SGS AXYS MLM-001	MLM-001	Y											
	Histamine	SGS AXYS MLM-001	MLM-001	Y											
	Histidine	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxyhexadecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxyhexadecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxyhexadecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxybutyrylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxyoctadecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxyproline	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxypropionylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxysphingomyeline C14:1	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxysphingomyeline C16:1	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxysphingomyeline C22:1	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxysphingomyeline C22:2	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxysphingomyeline C24:1	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxytetradecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxytetradecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Hydroxyvaleryl carnitine (Methylmalonylcarnitine)	SGS AXYS MLM-001	MLM-001	Y											
	Isoleucine	SGS AXYS MLM-001	MLM-001	Y											
	Kynurenine	SGS AXYS MLM-001	MLM-001	Y											
	Leucine	SGS AXYS MLM-001	MLM-001	Y											
	lithocholic acid	SGS AXYS MLM-001	MLM-001	Y											
	Lysine	SGS AXYS MLM-001	MLM-001	Y											
	lysoPhosphatidylcholine acyl C14:0	SGS AXYS MLM-001	MLM-001	Y											
	lysoPhosphatidylcholine acyl C16:0	SGS AXYS MLM-001	MLM-001	Y											
	lysoPhosphatidylcholine acyl C16:1	SGS AXYS MLM-001	MLM-001	Y											
	lysoPhosphatidylcholine acyl C17:0	SGS AXYS MLM-001	MLM-001	Y											
	lysoPhosphatidylcholine acyl C18:0	SGS AXYS MLM-001	MLM-001	Y											
	lysoPhosphatidylcholine acyl C18:1	SGS AXYS MLM-001	MLM-001	Y											
	lysoPhosphatidylcholine acyl C18:2	SGS AXYS MLM-001	MLM-001	Y											
	lysoPhosphatidylcholine acyl C20:3	SGS AXYS MLM-001	MLM-001	Y											

Accreditation Scope																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Accreditation Scope				Serum		Solids		Tissue		Urine		Water		Water, Non-Potable	
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 40				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	Pennsylvania DEP	ANAB ISO 17025
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	Pennsylvania DEP	ANAB ISO 17025
	Phosphatidylcholine diacyl C26:0	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C28:1	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C30:0	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C30:2	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C32:0	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C32:1	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C32:2	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C32:3	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C34:1	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C34:2	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C34:3	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C34:4	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C36:0	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C36:1	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C36:2	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C36:3	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C36:4	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C36:5	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C36:6	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C38:0	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C38:1	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C38:3	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C38:4	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C38:5	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C38:6	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C40:1	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C40:2	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C40:3	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C40:4	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C40:5	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C40:6	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C42:0	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C42:1	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C42:2	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C42:4	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C42:5	SGS AXYS MLM-001	MLM-001	Y											
	Phosphatidylcholine diacyl C42:6	SGS AXYS MLM-001	MLM-001	Y											
	Pimelylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Proline	SGS AXYS MLM-001	MLM-001	Y											
	Propenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Propionylcarnitine	SGS AXYS MLM-001	MLM-001	Y											
	Putrescine	SGS AXYS MLM-001	MLM-001	Y											
	Sarcosine	SGS AXYS MLM-001	MLM-001	Y											
	Serine	SGS AXYS MLM-001	MLM-001	Y											
	Serotonin	SGS AXYS MLM-001	MLM-001	Y											
	Spermidine	SGS AXYS MLM-001	MLM-001	Y											
	Spermine	SGS AXYS MLM-001	MLM-001	Y											
	Sphingomyeline C16:0	SGS AXYS MLM-001	MLM-001	Y											
	Sphingomyeline C16:1	SGS AXYS MLM-001	MLM-001	Y											
	Sphingomyeline C18:0	SGS AXYS MLM-001	MLM-001	Y											
	Sphingomyeline C18:1	SGS AXYS MLM-001	MLM-001	Y											
	Sphingomyeline C20:2	SGS AXYS MLM-001	MLM-001	Y											
	Sphingomyeline C22:3	SGS AXYS MLM-001	MLM-001	Y											
	Sphingomyeline C24:0	SGS AXYS MLM-001	MLM-001	Y											
	Sphingomyeline C24:1	SGS AXYS MLM-001	MLM-001	Y											
	Sphingomyeline C26:0	SGS AXYS MLM-001	MLM-001	Y											
	Sphingomyeline C26:1	SGS AXYS MLM-001	MLM-001	Y											
	Symmetric dimethylarginine	SGS AXYS MLM-001	MLM-001	Y											

Accreditation Scope				Serum		Solids		Tissue		Urine	Water	Water, Non-Potable	
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 40													
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB ISO 17025
	Taurine	SGS AXYS MLM-001	MLM-001	Y									
	taurochenodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y									
	taurocholic acid	SGS AXYS MLM-001	MLM-001	Y									
	taurodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y									
	tauroolithocholic acid	SGS AXYS MLM-001	MLM-001	Y									
	taurooursodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y									
	Tetradecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y									
	tetradecanoic acid (myristic acid)	SGS AXYS MLM-001	MLM-001										
	Tetradecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									
	Tetradecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									
	Threonine	SGS AXYS MLM-001	MLM-001	Y									
	Tiglylcarnitine	SGS AXYS MLM-001	MLM-001	Y									
	Total dimethylarginine	SGS AXYS MLM-001	MLM-001	Y									
	Tryptophan	SGS AXYS MLM-001	MLM-001	Y									
	Tyrosine	SGS AXYS MLM-001	MLM-001	Y									
	ursodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y									
	Valerylcarnitine	SGS AXYS MLM-001	MLM-001	Y									
	Valine	SGS AXYS MLM-001	MLM-001	Y									
TBBPA	Tetrabromobisphenol A	SGS AXYS MLA-079	MLA-079	Y									
TOP	Perfluorobutanesulfonate (PFBS)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorobutanoate (PFBA)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorodecanesulfonate (PFDS)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorodecanoate (PFDA)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorododecanesulfonate (PFDoS)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorododecanoate (PFDoA)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluoroheptanesulfonate (PFHpS)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluoroheptanoate (PFHpA)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorohexanesulfonate (PFHxS)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorohexanoate (PFHxA)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorononanesulfonate (PFNS)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorononanoate (PFNA)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorooctanesulfonate (PFOS)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorooctanoate (PFOA)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluoropentanesulfonate (PFPeS)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluoropentanoate (PFPeA)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorotetradecanoate (PFTeDA)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluorotridecanoate (PFTrDA)	SGS AXYS MLA-111	MLA-111		Y								
	Perfluoroundecanoate (PFUnA)	SGS AXYS MLA-111	MLA-111		Y								
Note *	Analysis of pesticides and PCBs in non-potable water samples by 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 5.1 table B-15												

Legend

Y	Accreditation scope
BFR	Brominated flame retardants (non-PBDPE)
BPA and mPE	Bisphenol A and mono-Phthalate Esters
HBCDD	Hexabromocyclododecane
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
TBBPA	Tetrabromobisphenol A
TOP	Total Oxidizable Precursors
California DPH	California Department of Public Health, 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)
Maine DOH	Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003

ANAB DoD ANSI-ASQ National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.1 Standard)



CALA Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard)



CALA
Testing
Accreditation No. A 2637



ANAB ISO 17025 ANSI-ASQ National Accreditation Board, certificate ADE-1861.01, (ISO/IEC 17025:2005 Standard)

