

SGS

AXYS

2045 Mills Road West

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SGS AXYS Client No.: 4972

Client Address: AECOM
1111 Third Avenue, Suite 1600
Seattle, WA, US, 98101

The SGS AXYS contact for these data is Sean Campbell.

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-RB-XF-190127
Sample Collection:
27-Jan-2019 15:50

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: FILTER

Sample Receipt Date: 22-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 Time: 11:20:00

Extract Volume (uL): 400

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
L30771-1

0.2 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1743.D

PH9S1742.D

PH9S1738.D

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
Naphthalene	91-20-3	J	46.8	28.3 (S)	0.06	1.006
Benz[a]anthracene ³	56-55-3	U		3.29 (S)		
Chrysene ⁴	218-01-9	K J	4.35	3.25 (S)	0.48	1.002
Benzo[b]fluoranthene	205-99-2	U		5.74 (S)		
Benzo[j,k]fluoranthenes		U		6.32 (S)		
Benzo[a]pyrene	50-32-8	U		15.3 (S)		
Dibenz[a,h]anthracene ⁵	53-70-3	U		13.6 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	U		14.9 (S)		

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

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-1_Form1A_PH9S1743.D_SJ2543138.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-RB-XF-190127
Sample Collection:
27-Jan-2019 15:50

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: FILTER

Sample Receipt Date: 22-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 **Time:** 11:20:00

Extract Volume (uL): 400

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.: L30771-1

Sample Size: 0.2 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1743.D

Blank Data Filename: PH9S1742.D

Cal. Ver. Data Filename: PH9S1738.D

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
Naphthalene d-8	V	6000	752	12.5	0.09	0.610
Benzo[a]anthracene d-12		6090	4000	65.7	0.23	1.164
Chrysene d-12		5880	4330	73.7	0.26	1.169
Benzo[b]fluoranthene d-12		5910	4610	78.0	0.20	0.958
Benzo[k]fluoranthene d-12		6000	4700	78.3	0.19	0.962
Benzo[a]pyrene d-12		6210	2860	46.1	0.20	1.009
Dibenzo[a,h]anthracene d-14		5750	2210	38.4	0.31	1.212
Indeno[1,2,3-cd]pyrene d-12		5970	2690	45.0	0.18	1.207

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

(2) R% = percent recovery.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-1_Form2_PH9S1743.D_SJ2543138.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T04-1902
Sample Collection:
17-Feb-2019 19:35

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: FILTER

Sample Receipt Date: 22-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 Time: 12:09:00

Extract Volume (uL): 400

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
L30771-2

0.2 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1744.D

PH9S1742.D

PH9S1738.D

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
Naphthalene	91-20-3	J	105	13.5 (S)	0.08	1.006
Benz[a]anthracene ³	56-55-3	K J	67.1	3.21 (S)	0.37	1.003
Chrysene ⁴	218-01-9	J	150	3.37 (S)	0.32	1.003
Benzo[b]fluoranthene	205-99-2	J	105	8.20 (S)	0.25	1.004
Benzo[j,k]fluoranthenes		J	77.5	9.26 (S)	0.21	1.002
Benzo[a]pyrene	50-32-8	J	64.1	14.8 (S)	0.18	1.004
Dibenz[a,h]anthracene ⁵	53-70-3	U		23.4 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	K J	95.0	15.3 (S)	0.32	1.003

(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.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-2_Form1A_PH9S1744.D_SJ2543139.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T04-1902
Sample Collection:
17-Feb-2019 19:35

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: FILTER

Sample Receipt Date: 22-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 **Time:** 12:09:00

Extract Volume (uL): 400

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.: L30771-2

Sample Size: 0.2 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1744.D

Blank Data Filename: PH9S1742.D

Cal. Ver. Data Filename: PH9S1738.D

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
Naphthalene d-8		6000	1370	22.8	0.09	0.611
Benzo[a]anthracene d-12		6090	3420	56.1	0.23	1.164
Chrysene d-12		5880	3540	60.2	0.26	1.169
Benzo[b]fluoranthene d-12		5910	3910	66.2	0.20	0.957
Benzo[k]fluoranthene d-12		6000	4130	68.8	0.19	0.962
Benzo[a]pyrene d-12		6210	3520	56.7	0.20	1.009
Dibenzo[a,h]anthracene d-14		5750	1810	31.6	0.33	1.211
Indeno[1,2,3-cd]pyrene d-12		5970	2120	35.6	0.18	1.206

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

(2) R% = percent recovery.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-2_Form2_PH9S1744.D_SJ2543139.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T05-1902
Sample Collection:
17-Feb-2019 19:17

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: FILTER

Sample Receipt Date: 22-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 Time: 12:58:00

Extract Volume (uL): 400

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
L30771-3

0.2 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1745.D

PH9S1742.D

PH9S1738.D

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
Naphthalene	91-20-3	J	100	21.0 (S)	0.06	1.006
Benz[a]anthracene ³	56-55-3	K J	44.5	2.35 (S)	0.48	1.003
Chrysene ⁴	218-01-9	J	132	2.45 (S)	0.31	1.002
Benzo[b]fluoranthene	205-99-2	J	86.3	6.14 (S)	0.25	1.004
Benzo[j,k]fluoranthenes		J	52.4	6.92 (S)	0.22	1.002
Benzo[a]pyrene	50-32-8	J	46.6	10.4 (S)	0.20	1.004
Dibenz[a,h]anthracene ⁵	53-70-3	U		28.9 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	K J	68.5	14.5 (S)	0.42	1.003

(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.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-3_Form1A_PH9S1745.D_SJ2543140.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T05-1902
Sample Collection:
17-Feb-2019 19:17

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: FILTER

Sample Receipt Date: 22-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 **Time:** 12:58:00

Extract Volume (uL): 400

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.: L30771-3

Sample Size: 0.2 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1745.D

Blank Data Filename: PH9S1742.D

Cal. Ver. Data Filename: PH9S1738.D

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
Naphthalene d-8	V	6000	868	14.5	0.09	0.610
Benzo[a]anthracene d-12		6090	4630	76.1	0.23	1.164
Chrysene d-12		5880	4760	80.9	0.26	1.169
Benzo[b]fluoranthene d-12		5910	4870	82.4	0.20	0.958
Benzo[k]fluoranthene d-12		6000	5050	84.2	0.19	0.962
Benzo[a]pyrene d-12		6210	4500	72.5	0.20	1.009
Dibenzo[a,h]anthracene d-14		5750	2210	38.4	0.29	1.211
Indeno[1,2,3-cd]pyrene d-12		5970	2720	45.6	0.17	1.207

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

(2) R% = percent recovery.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-3_Form2_PH9S1745.D_SJ2543140.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T06-1901
Sample Collection:
27-Jan-2019 10:40

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: FILTER

Sample Receipt Date: 22-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 Time: 13:47:00

Extract Volume (uL): 400

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
L30771-4 (A)

0.2 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1746.D

PH9S1742.D

PH9S1738.D

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
Naphthalene	91-20-3	J	102	79.1 (S)	0.07	1.006
Benz[a]anthracene ³	56-55-3	K J	33.0	2.71 (S)	0.41	1.002
Chrysene ⁴	218-01-9	J	84.5	2.91 (S)	0.33	1.003
Benzo[b]fluoranthene	205-99-2	J	52.9	6.29 (S)	0.24	1.004
Benzo[j,k]fluoranthenes		J	41.7	7.18 (S)	0.21	1.002
Benzo[a]pyrene	50-32-8	J	42.6	10.9 (S)	0.24	1.004
Dibenz[a,h]anthracene ⁵	53-70-3	U		17.9 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	K J	45.4	23.9 (S)	0.55	1.002

(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.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-4_Form1A_PH9S1746.D_SJ2543141.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T06-1901
Sample Collection:
27-Jan-2019 10:40

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: FILTER

Sample Receipt Date: 22-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 **Time:** 13:47:00

Extract Volume (uL): 400

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.: L30771-4 (A)

Sample Size: 0.2 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1746.D

Blank Data Filename: PH9S1742.D

Cal. Ver. Data Filename: PH9S1738.D

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
Naphthalene d-8	V	6000	390	6.50	0.09	0.610
Benzo[a]anthracene d-12		6090	3450	56.6	0.23	1.164
Chrysene d-12		5880	3580	60.9	0.26	1.169
Benzo[b]fluoranthene d-12		5910	3760	63.6	0.20	0.958
Benzo[k]fluoranthene d-12		6000	3900	65.0	0.19	0.962
Benzo[a]pyrene d-12		6210	3470	55.8	0.19	1.009
Dibenzo[a,h]anthracene d-14		5750	1770	30.8	0.31	1.212
Indeno[1,2,3-cd]pyrene d-12		5970	2070	34.7	0.17	1.207

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

(2) R% = percent recovery.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-4_Form2_PH9S1746.D_SJ2543141.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T06-1901 (Duplicate)
Sample Collection:
27-Jan-2019 10:40

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: FILTER

Sample Receipt Date: 22-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 Time: 14:36:00

Extract Volume (uL): 400

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
WG67275-103 (DUP L30771-4)

0.2 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1747.D

PH9S1742.D

PH9S1738.D

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
Naphthalene	91-20-3	J	94.2	62.2 (S)	0.06	1.006
Benz[a]anthracene ³	56-55-3	K J	35.4	2.36 (S)	0.34	1.002
Chrysene ⁴	218-01-9	J	80.7	2.06 (S)	0.30	1.003
Benzo[b]fluoranthene	205-99-2	J	51.9	6.09 (S)	0.23	1.004
Benzo[j,k]fluoranthenes		J	39.5	7.36 (S)	0.19	1.002
Benzo[a]pyrene	50-32-8	J	46.1	21.3 (S)	0.24	1.004
Dibenz[a,h]anthracene ⁵	53-70-3	U		16.8 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	K J	53.8	25.2 (S)	0.63	1.002

(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.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Matthew Ou _____

For Axs Internal Use Only [XSL Template: Pest1A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_WG67275-103_Form1A_PH9S1747.D_SJ2543142.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T06-1901 (Duplicate)
Sample Collection:
27-Jan-2019 10:40

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: FILTER

Sample Receipt Date: 22-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 **Time:** 14:36:00

Extract Volume (uL): 400

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.: WG67275-103 (DUP L30771-4)

Sample Size: 0.2 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1747.D

Blank Data Filename: PH9S1742.D

Cal. Ver. Data Filename: PH9S1738.D

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
Naphthalene d-8	V	6000	660	11.0	0.10	0.610
Benzo[a]anthracene d-12		6090	4190	68.8	0.23	1.164
Chrysene d-12		5880	5030	85.6	0.26	1.169
Benzo[b]fluoranthene d-12		5910	5100	86.2	0.20	0.958
Benzo[k]fluoranthene d-12		6000	4960	82.7	0.19	0.962
Benzo[a]pyrene d-12		6210	2420	38.9	0.20	1.009
Dibenzo[a,h]anthracene d-14		5750	2570	44.7	0.27	1.211
Indeno[1,2,3-cd]pyrene d-12		5970	2670	44.6	0.18	1.207

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

(2) R% = percent recovery.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_WG67275-103_Form2_PH9S1747.D_SJ2543142.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Client ID: PDI-WS-T06-1901

Project No.

Concentration Units:

ANALYSIS REPORT
RELATIVE PERCENT DIFFERENCE

PORTLAND HARBOR PDI AND
BASELINE WATER

ng/sample

COMPOUND	L30771-4 (A)		WG67275-103		MEAN	RELATIVE PERCENT DIFFERENCE
	LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
Naphthalene	J	102	J	94.2	98.0	7.68
Benz[a]anthracene	K J	33.0	K J	35.4		
Chrysene	J	84.5	J	80.7	82.6	4.58
Benzo[b]fluoranthene	J	52.9	J	51.9	52.4	1.82
Benzo[j,k]fluoranthenes	J	41.7	J	39.5	40.6	5.43
Benzo[a]pyrene	J	42.6	J	46.1	44.3	7.82
Dibenz[a,h]anthracene	U		U			
Indeno[1,2,3-cd]pyrene	K J	45.4	K J	53.8		

(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.

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

Signed: _____Matthew Ou_____

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

For Axys Internal Use Only [XSL Template: RPD.xml; Created: 15-Apr-2019 12:52:14; Application: XMLTransformer-1.17.7;
Report Filename: RPD_PAH_LO_LPAR-RPD_WG67275-103_L30771-4_.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T07-1901
Sample Collection:
26-Jan-2019 09:46

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: FILTER

Sample Receipt Date: 22-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 **Time:** 15:25:00

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L30771-5

Sample Size: 0.2 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1748.D

Blank Data Filename: PH9S1742.D

Cal. Ver. Data Filename: PH9S1738.D

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
Naphthalene	91-20-3	J	96.8	14.3 (S)	0.08	1.006
Benz[a]anthracene ³	56-55-3	K J	71.0	5.52 (S)	0.34	1.002
Chrysene ⁴	218-01-9		498	5.60 (S)	0.31	1.003
Benzo[b]fluoranthene	205-99-2	J	84.0	8.42 (S)	0.24	1.004
Benzo[j,k]fluoranthenes		J	72.2	9.36 (S)	0.20	1.002
Benzo[a]pyrene	50-32-8	J	65.9	14.7 (S)	0.22	1.004
Dibenz[a,h]anthracene ⁵	53-70-3	U		17.8 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	K J	78.5	19.5 (S)	0.29	1.002

(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.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-5_Form1A_PH9S1748.D_SJ2543143.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T07-1901
Sample Collection:
26-Jan-2019 09:46

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: FILTER

Sample Receipt Date: 22-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 **Time:** 15:25:00

Extract Volume (uL): 400

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.: L30771-5

Sample Size: 0.2 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1748.D

Blank Data Filename: PH9S1742.D

Cal. Ver. Data Filename: PH9S1738.D

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
Naphthalene d-8		6000	1730	28.8	0.09	0.610
Benzo[a]anthracene d-12		6090	4590	75.4	0.23	1.164
Chrysene d-12		5880	4740	80.7	0.26	1.169
Benzo[b]fluoranthene d-12		5910	5020	85.0	0.20	0.958
Benzo[k]fluoranthene d-12		6000	5240	87.3	0.19	0.962
Benzo[a]pyrene d-12		6210	4590	73.9	0.20	1.009
Dibenzo[a,h]anthracene d-14		5750	2560	44.5	0.28	1.212
Indeno[1,2,3-cd]pyrene d-12		5970	2980	49.9	0.17	1.207

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

(2) R% = percent recovery.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-5_Form2_PH9S1748.D_SJ2543143.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T01-1902
Sample Collection:
18-Feb-2019 20:15

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: FILTER

Sample Receipt Date: 21-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 **Time:** 16:14:00

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L30771-6

Sample Size: 0.2 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1749.D

Blank Data Filename: PH9S1742.D

Cal. Ver. Data Filename: PH9S1738.D

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
Naphthalene	91-20-3	J	92.3	28.2 (S)	0.08	1.006
Benz[a]anthracene ³	56-55-3	K J	59.2	3.33 (S)	0.45	1.002
Chrysene ⁴	218-01-9	J	122	3.32 (S)	0.31	1.003
Benzo[b]fluoranthene	205-99-2	J	156	5.01 (S)	0.26	1.004
Benzo[j,k]fluoranthenes		J	54.5	5.53 (S)	0.25	1.002
Benzo[a]pyrene	50-32-8	J	67.3	8.66 (S)	0.19	1.004
Dibenz[a,h]anthracene ⁵	53-70-3	U		24.0 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	K J	85.4	16.1 (S)	0.38	1.003

(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.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-6_Form1A_PH9S1749.D_SJ2543144.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T01-1902
Sample Collection:
18-Feb-2019 20:15

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: FILTER

Sample Receipt Date: 21-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 **Time:** 16:14:00

Extract Volume (uL): 400

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.: L30771-6

Sample Size: 0.2 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1749.D

Blank Data Filename: PH9S1742.D

Cal. Ver. Data Filename: PH9S1738.D

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
Naphthalene d-8	V	6000	831	13.9	0.09	0.610
Benzo[a]anthracene d-12		6090	4410	72.4	0.23	1.164
Chrysene d-12		5880	4570	77.7	0.26	1.169
Benzo[b]fluoranthene d-12		5910	4820	81.5	0.20	0.958
Benzo[k]fluoranthene d-12		6000	5030	83.9	0.19	0.962
Benzo[a]pyrene d-12		6210	4420	71.3	0.20	1.009
Dibenzo[a,h]anthracene d-14		5750	2360	41.0	0.29	1.212
Indeno[1,2,3-cd]pyrene d-12		5970	2850	47.7	0.17	1.207

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

(2) R% = percent recovery.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-6_Form2_PH9S1749.D_SJ2543144.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T02-1902
Sample Collection:
18-Feb-2019 21:36

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:	FILTER	Lab Sample I.D.:	L30771-7
Sample Receipt Date:	21-Feb-2019	Sample Size:	0.2 sample
Extraction Date:	12-Mar-2019	Initial Calibration Date:	27-Feb-2019
Analysis Date:	08-Apr-2019 Time: 17:03:00	Instrument ID:	LR GC/MS
Extract Volume (uL):	400	GC Column ID:	RTX5
Injection Volume (uL):	1.0	Sample Data Filename:	PH9S1750.D
Dilution Factor:	N/A	Blank Data Filename:	PH9S1742.D
		Cal. Ver. Data Filename:	PH9S1738.D
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
Naphthalene	91-20-3	J	107	31.6 (S)	0.07	1.007
Benz[a]anthracene ³	56-55-3	K J	91.2	3.75 (S)	0.45	1.002
Chrysene ⁴	218-01-9	J	189	3.83 (S)	0.31	1.003
Benzo[b]fluoranthene	205-99-2	J	140	4.58 (S)	0.26	1.004
Benzo[j,k]fluoranthenes		J	99.2	5.41 (S)	0.20	1.002
Benzo[a]pyrene	50-32-8	J	103	8.10 (S)	0.22	1.004
Dibenz[a,h]anthracene ⁵	53-70-3	U		26.1 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	K J	121	16.5 (S)	0.30	1.002

(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.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-7_Form1A_PH9S1750.D_SJ2543145.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T02-1902
Sample Collection:
18-Feb-2019 21:36

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: FILTER

Sample Receipt Date: 21-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 **Time:** 17:03:00

Extract Volume (uL): 400

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.: L30771-7

Sample Size: 0.2 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1750.D

Blank Data Filename: PH9S1742.D

Cal. Ver. Data Filename: PH9S1738.D

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
Naphthalene d-8	V	6000	583	9.72	0.09	0.610
Benzo[a]anthracene d-12		6090	4640	76.2	0.23	1.164
Chrysene d-12		5880	4820	81.9	0.26	1.169
Benzo[b]fluoranthene d-12		5910	4880	82.7	0.20	0.958
Benzo[k]fluoranthene d-12		6000	5010	83.5	0.19	0.962
Benzo[a]pyrene d-12		6210	4500	72.4	0.20	1.009
Dibenzo[a,h]anthracene d-14		5750	2350	40.9	0.28	1.211
Indeno[1,2,3-cd]pyrene d-12		5970	2810	47.1	0.18	1.207

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

(2) R% = percent recovery.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-7_Form2_PH9S1750.D_SJ2543145.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T03-1902
Sample Collection:
18-Feb-2019 11:31

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:	FILTER	Lab Sample I.D.:	L30771-8
Sample Receipt Date:	21-Feb-2019	Sample Size:	0.2 sample
Extraction Date:	12-Mar-2019	Initial Calibration Date:	27-Feb-2019
Analysis Date:	08-Apr-2019 Time: 17:52:00	Instrument ID:	LR GC/MS
Extract Volume (uL):	400	GC Column ID:	RTX5
Injection Volume (uL):	1.0	Sample Data Filename:	PH9S1751.D
Dilution Factor:	N/A	Blank Data Filename:	PH9S1742.D
		Cal. Ver. Data Filename:	PH9S1738.D
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
Naphthalene	91-20-3	J	172	58.1 (S)	0.07	1.006
Benz[a]anthracene ³	56-55-3	K J	75.6	2.99 (S)	0.47	1.002
Chrysene ⁴	218-01-9	J	185	3.11 (S)	0.34	1.002
Benzo[b]fluoranthene	205-99-2	J	111	6.38 (S)	0.26	1.004
Benzo[j,k]fluoranthenes		J	89.0	6.98 (S)	0.23	1.002
Benzo[a]pyrene	50-32-8	J	86.8	10.7 (S)	0.23	1.004
Dibenz[a,h]anthracene ⁵	53-70-3	K J	27.8	18.3 (S)	0.29	1.003
Indeno[1,2,3-cd]pyrene	193-39-5	K J	118	18.7 (S)	0.51	1.003

(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.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-8_Form1A_PH9S1751.D_SJ2543146.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T03-1902
Sample Collection:
18-Feb-2019 11:31

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: FILTER

Sample Receipt Date: 21-Feb-2019

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 **Time:** 17:52:00

Extract Volume (uL): 400

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.: L30771-8

Sample Size: 0.2 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1751.D

Blank Data Filename: PH9S1742.D

Cal. Ver. Data Filename: PH9S1738.D

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
Naphthalene d-8	V	12000	827	6.89	0.09	0.611
Benzo[a]anthracene d-12		12200	9940	81.6	0.23	1.164
Chrysene d-12		11800	10100	85.7	0.26	1.169
Benzo[b]fluoranthene d-12		11800	10900	92.2	0.20	0.958
Benzo[k]fluoranthene d-12		12000	11200	93.2	0.19	0.962
Benzo[a]pyrene d-12		12400	10100	81.2	0.20	1.009
Dibenzo[a,h]anthracene d-14		11500	5800	50.5	0.28	1.211
Indeno[1,2,3-cd]pyrene d-12		11900	6590	55.2	0.18	1.207

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

(2) R% = percent recovery.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30771-8_Form2_PH9S1751.D_SJ2543146.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
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: FILTER

Sample Receipt Date: N/A

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 Time: 10:31:00

Extract Volume (uL): 400

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

WG67275-101

0.2 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1742.D

PH9S1742.D

PH9S1738.D

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
Naphthalene	91-20-3	J	171	21.7 (S)	0.08	1.006
Benz[a]anthracene ³	56-55-3	J	3.37	1.79 (S)	0.25	1.002
Chrysene ⁴	218-01-9	J	6.58	1.79 (S)	0.26	1.002
Benzo[b]fluoranthene	205-99-2	U		6.17 (S)		
Benzo[j,k]fluoranthenes		U		6.91 (S)		
Benzo[a]pyrene	50-32-8	U		19.1 (S)		
Dibenz[a,h]anthracene ⁵	53-70-3	U		22.6 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	U		12.6 (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.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Matthew Ou _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_WG67275-101_Form1A_PH9S1742.D_SJ2543136.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
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: FILTER

Sample Receipt Date: N/A

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 Time: 10:31:00

Extract Volume (uL): 400

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

WG67275-101

0.2 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1742.D

PH9S1742.D

PH9S1738.D

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
Naphthalene d-8		6000	1110	18.5	0.09	0.610
Benzo[a]anthracene d-12		6090	3880	63.8	0.23	1.164
Chrysene d-12		5880	4330	73.6	0.26	1.169
Benzo[b]fluoranthene d-12		5910	4630	78.4	0.20	0.958
Benzo[k]fluoranthene d-12		6000	4720	78.7	0.19	0.962
Benzo[a]pyrene d-12		6210	2450	39.5	0.20	1.009
Dibenzo[a,h]anthracene d-14		5750	2060	35.9	0.27	1.212
Indeno[1,2,3-cd]pyrene d-12		5970	2490	41.7	0.18	1.207

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

(2) R% = percent recovery.

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

Signed: _____ Matthew Ou _____

For Axs Internal Use Only [XSL Template: Pest2.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_WG67275-101_Form2_PH9S1742.D_SJ2543136.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 8A

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: PH9S1739.D

Matrix: FILTER

Lab Sample I.D.: WG67275-102

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 Time: 08:05:00

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
Naphthalene	91-20-3		0.07	59200	59400	41400 - 76900	100
Benz[a]anthracene	56-55-3		0.27	60400	60900	42300 - 78500	101
Chrysene	218-01-9		0.30	60300	61100	42200 - 78400	101
Benzo[b]fluoranthene	205-99-2		0.22	60400	60100	42300 - 78500	99.4
Benzo[j,k]fluoranthenes			0.22	60500	60600	42300 - 78600	100
Benzo[a]pyrene	50-32-8		0.22	60000	59500	42000 - 78000	99.2
Dibenz[a,h]anthracene	53-70-3		0.16	59200	59700	41400 - 76900	101
Indeno[1,2,3-cd]pyrene	193-39-5		0.20	60400	62900	42300 - 78500	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: _____ Matthew Ou _____

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 Axy Internal Use Only [XSL Template: Pest8A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_WG67275-102_Form8A_SJ2543132.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 8B

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: PH9S1739.D

Matrix: FILTER

Lab Sample I.D.: WG67275-102

Extraction Date: 12-Mar-2019

Analysis Date: 08-Apr-2019 Time: 08:05:00

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON 100 µL 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
Naphthalene d-8	1146-65-2		0.09	60000	13700	9000-78000	22.9
Benzo[a]anthracene d-12	1718-53-2		0.23	60900	44900	18300-79200	73.7
Chrysene d-12	1719-03-5		0.26	58800	46200	17600-76400	78.6
Benzo[b]fluoranthene d-12	93951-98-5		0.20	59100	51500	17700-76800	87.1
Benzo[k]fluoranthene d-12	93952-01-3		0.19	60000	52500	18000-78000	87.6
Benzo[a]pyrene d-12	63466-71-7		0.20	62100	35100	18600-80700	56.6
Dibenzo[a,h]anthracene d-14	13250-98-1		0.27	57500	29800	17200-74700	51.9
Indeno[1,2,3-cd]pyrene d-12	203578-33-0		0.18	59700	33200	17900-77600	55.7

(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: _____ Matthew Ou _____

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: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7; Report Filename: PAH_PAH_LO_LPAR_WG67275-102_Form8B_SJ2543132.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

CS0 Data Filename: N/A

CS1 Data Filename: PH9S0936.D

CS2 Data Filename: PH9S0937.D

CS3 Data Filename: PH9S0938.D

CS4 Data Filename: PH9S0940.D

CS5 Data Filename: PH9S0939.D

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
Naphthalene			1.20	1.15	1.21	1.17	1.15	1.18	2.42
Benz[a]anthracene			1.34	1.28	1.31	1.26	1.24	1.29	3.03
Chrysene			1.26	1.22	1.29	1.25	1.23	1.25	2.28
Benzo[b]fluoranthene			1.56	1.43	1.45	1.38	1.37	1.44	5.29
Benzo[j,k]fluoranthenes			1.32	1.24	1.33	1.31	1.29	1.30	2.61
Benzo[a]pyrene			1.33	1.26	1.36	1.35	1.33	1.33	2.87
Dibenz[a,h]anthracene			1.25	1.20	1.28	1.27	1.24	1.25	2.53
Indeno[1,2,3-cd]pyrene			1.26	1.17	1.24	1.21	1.21	1.22	2.61
Benzo[ghi]perylene			1.22	1.15	1.24	1.21	1.21	1.20	2.93

(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.

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

Signed: _____ Victoria Reesor _____

For Axy Internal Use Only [XSL Template: Form3A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: GENERIC-SPECS_PAH_LO_27-Feb-2019_PH9S__Form3A_GS81200.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

CS0 Data Filename: N/A

CS1 Data Filename: PH9S0936.D

CS2 Data Filename: PH9S0937.D

CS3 Data Filename: PH9S0938.D

CS4 Data Filename: PH9S0940.D

CS5 Data Filename: PH9S0939.D

CS6 Data Filename: N/A

Labeled Compound	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
Naphthalene d-8			1.54	1.56	1.56	1.52	1.55	1.55	1.12
2-Methylnaphthalene d-10			1.02	1.04	1.04	1.02	1.03	1.03	0.98
2,6-Dimethylnaphthalene d-12			0.93	0.94	0.94	0.92	0.93	0.93	0.88
Acenaphthylene d-8			1.80	1.83	1.84	1.77	1.81	1.81	1.47
Dibenzothiophene d-8			0.86	0.85	0.85	0.82	0.87	0.85	1.84
Phenanthrene d-10			0.95	0.94	0.94	0.92	0.96	0.94	1.58
Fluoranthene d-10			0.92	0.92	0.92	0.91	0.93	0.92	0.99
Benzo[a]anthracene d-12			0.88	0.90	0.89	0.88	0.88	0.89	0.74
Chrysene d-12			0.87	0.89	0.88	0.88	0.88	0.88	0.85
Benzo[b]fluoranthene d-12			0.96	0.96	0.97	0.96	0.98	0.96	0.74
Benzo[k]fluoranthene d-12			1.00	1.00	1.01	1.00	1.02	1.00	0.80
Benzo[a]pyrene d-12			0.88	0.89	0.90	0.87	0.89	0.88	1.30
Perylene d-12			0.86	0.87	0.87	0.86	0.87	0.87	0.62
Dibenzo[a,h]anthracene d-14			0.83	0.87	0.85	0.88	0.80	0.84	3.79
Indeno[1,2,3-cd]pyrene d-12			0.95	0.98	0.96	0.98	0.90	0.95	3.50
Benzo[ghi]perylene d-12			1.03	1.05	1.04	1.04	0.96	1.02	3.72

(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: _____ Victoria Reesor _____

For Axys Internal Use Only [XSL Template: Form3B.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: GENERIC-SPECS_PAH_LO_27-Feb-2019_PH9S__Form3B_GS81200.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

CS0 Data Filename: N/A

CS1 Data Filename: PH9S0936.D

CS2 Data Filename: PH9S0937.D

CS3 Data Filename: PH9S0938.D

CS4 Data Filename: PH9S0940.D

CS5 Data Filename: PH9S0939.D

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO	ION ABUNDANCE RATIO					
			CS0	CS1	CS2	CS3	CS4	CS5
Naphthalene		128,102		0.07	0.07	0.07	0.07	0.07
Benz[a]anthracene		228,226		0.26	0.26	0.27	0.27	0.27
Chrysene		228,226		0.30	0.30	0.30	0.30	0.30
Benzo[b]fluoranthene		252,253		0.24	0.23	0.22	0.22	0.22
Benzo[j,k]fluoranthenes		252,253		0.24	0.22	0.21	0.22	0.22
Benzo[a]pyrene		252,253		0.23	0.22	0.21	0.22	0.22
Dibenz[a,h]anthracene		278,139		0.16	0.15	0.15	0.16	0.16
Indeno[1,2,3-cd]pyrene		276,138		0.23	0.22	0.20	0.20	0.20
Benzo[ghi]perylene		276,138		0.20	0.22	0.21	0.21	0.21

(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: _____ Victoria Reesor _____

For Axy Internal Use Only [XSL Template: Form3C.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: GENERIC-SPECS_PAH_LO_27-Feb-2019_PH9S__Form3C_GS81200.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

CS0 Data Filename: N/A

CS1 Data Filename: PH9S0936.D

CS2 Data Filename: PH9S0937.D

CS3 Data Filename: PH9S0938.D

CS4 Data Filename: PH9S0940.D

CS5 Data Filename: PH9S0939.D

CS6 Data Filename: N/A

LABELED COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO	ION ABUNDANCE RATIO						
			CS0	CS1	CS2	CS3	CS4	CS5	CS6
Naphthalene d-8		136,134		0.09	0.09	0.09	0.09	0.09	
2-Methylnaphthalene d-10		152,151		0.19	0.19	0.19	0.19	0.19	
2,6-Dimethylnaphthalene d-12		168,150		0.77	0.76	0.77	0.76	0.77	
Acenaphthylene d-8		160,158		0.15	0.16	0.15	0.15	0.15	
Dibenzothiophene d-8		192,160		0.09	0.09	0.09	0.09	0.09	
Phenanthrene d-10		188,184		0.15	0.15	0.15	0.15	0.14	
Fluoranthene d-10		212,208		0.17	0.16	0.17	0.17	0.17	
Benzo[a]anthracene d-12		240,236		0.24	0.24	0.24	0.24	0.23	
Chrysene d-12		240,236		0.27	0.27	0.27	0.27	0.27	
Benzo[b]fluoranthene d-12		264,260		0.21	0.21	0.21	0.21	0.21	
Benzo[k]fluoranthene d-12		264,260		0.20	0.20	0.20	0.20	0.20	
Benzo[a]pyrene d-12		264,260		0.20	0.20	0.20	0.20	0.20	
Perylene d-12		264,260		0.25	0.25	0.25	0.25	0.25	
Dibenzo[a,h]anthracene d-14		292,288		0.23	0.23	0.24	0.24	0.24	
Indeno[1,2,3-cd]pyrene d-12		288,284		0.18	0.18	0.18	0.18	0.18	
Benzo[ghi]perylene d-12		288,284		0.19	0.19	0.19	0.19	0.19	

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

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

Signed: _____ Victoria Reesor _____

For Axy Internal Use Only [XSL Template: Form3D.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
 Report Filename: GENERIC-SPECS_PAH_LO_27-Feb-2019_PH9S__Form3D_GS81200.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

VER Data Filename: PH9S1738.D

Instrument ID: LR GC/MS

Analysis Date: 08-Apr-2019

GC Column ID: RTX5

Analysis Time: 07:15:00

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	SAMPLE QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Naphthalene	91-20-3		128,102	0.07	0.06-0.08	2100	1480-2470
Benz[a]anthracene	56-55-3		228,226	0.27	0.22-0.32	1910	1510-2520
Chrysene	218-01-9		228,226	0.30	0.24-0.36	1960	1510-2510
Benzo[b]fluoranthene	205-99-2		252,253	0.22	0.18-0.26	1890	1510-2520
Benzo[j,k]fluoranthenes			252,253	0.22	0.18-0.26	1970	1510-2520
Benzo[a]pyrene	50-32-8		252,253	0.22	0.18-0.26	1950	1500-2500
Dibenz[a,h]anthracene	53-70-3		278,139	0.16	0.10-0.22	1990	1480-2470
Indeno[1,2,3-cd]pyrene	193-39-5		276,138	0.20	0.13-0.27	1990	1510-2520
Benzo[ghi]perylene	191-24-2		276,138	0.22	0.14-0.30	1980	1480-2460

(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: _____Victoria Reesor_____

For Axys Internal Use Only [XSL Template: Pest4A.xsl; Created: 15-Apr-2019 12:50:20; Application: XMLTransformer-1.17.7;
Report Filename: GENERIC-SPECS_PAH_LO_PH9S1738.D__Form4A_SJ2541805.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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:	27-Feb-2019	VER Data Filename:	PH9S1738.D
Instrument ID:	LR GC/MS	Analysis Date:	08-Apr-2019
GC Column ID:	RTX5	Analysis Time:	07:15:00

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	SAMPLE QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Naphthalene d-8	1146-65-2		136,134	0.09	0.07-0.11	1850	1500-2500
2-Methylnaphthalene d-10	7297-45-2		152,151	0.19	0.15-0.23	1890	1480-2460
2,6-Dimethylnaphthalene d-12	350820-12-1		168,150	0.75	0.60-0.90	2050	1540-2570
Acenaphthylene d-8	93951-97-4		160,158	0.15	0.12-0.18	1960	1550-2580
Dibenzothiophene d-8	33262-29-2		192,160	0.09	0.07-0.11	1930	1530-2540
Phenanthrene d-10	1517-22-2		188,184	0.14	0.11-0.17	1770	1350-2260
Fluoranthene d-10	93951-69-0		212,208	0.17	0.14-0.20	2010	1490-2480
Benzo[a]anthracene d-12	1718-53-2		240,236	0.23	0.18-0.28	1970	1520-2540
Chrysene d-12	1719-03-5		240,236	0.26	0.21-0.31	1920	1470-2450
Benzo[b]fluoranthene d-12	93951-98-5		264,260	0.20	0.16-0.24	1930	1480-2460
Benzo[k]fluoranthene d-12	93952-01-3		264,260	0.20	0.16-0.24	1990	1500-2500
Benzo[a]pyrene d-12	63466-71-7		264,260	0.20	0.16-0.24	2010	1550-2590
Perylene d-12	1520-96-3		264,260	0.24	0.19-0.29	2140	1610-2690
Dibenzo[a,h]anthracene d-14	13250-98-1		292,288	0.28	0.18-0.38	1860	1440-2390
Indeno[1,2,3-cd]pyrene d-12	203578-33-0		288,284	0.18	0.12-0.24	1890	1490-2490
Benzo[ghi]perylene d-12	93951-66-7		288,284	0.19	0.12-0.26	1910	1490-2480

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

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Signed: _____ Victoria Reesor _____

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Report Filename: GENERIC-SPECS_PAH_LO_PH9S1738.D__Form4B_SJ2541805.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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:	27-Feb-2019	VER Data Filename:	PH9S1753.D
Instrument ID:	LR GC/MS	Analysis Date:	08-Apr-2019
GC Column ID:	RTX5	Analysis Time:	19:01:00

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	SAMPLE QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Naphthalene	91-20-3		128,102	0.07	0.06-0.08	2070	1480-2470
Benz[a]anthracene	56-55-3		228,226	0.27	0.22-0.32	1910	1510-2520
Chrysene	218-01-9		228,226	0.30	0.24-0.36	1960	1510-2510
Benzo[b]fluoranthene	205-99-2		252,253	0.22	0.18-0.26	1900	1510-2520
Benzo[j,k]fluoranthenes			252,253	0.22	0.18-0.26	1950	1510-2520
Benzo[a]pyrene	50-32-8		252,253	0.22	0.18-0.26	1950	1500-2500
Dibenz[a,h]anthracene	53-70-3		278,139	0.15	0.10-0.20	1990	1480-2470
Indeno[1,2,3-cd]pyrene	193-39-5		276,138	0.19	0.12-0.26	1990	1510-2520
Benzo[ghi]perylene	191-24-2		276,138	0.20	0.13-0.27	1970	1480-2460

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Report Filename: GENERIC-SPECS_PAH_LO_PH9S1753.D__Form4A_SJ2543154.html; Workgroup: WG67275; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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:	27-Feb-2019	VER Data Filename:	PH9S1753.D
Instrument ID:	LR GC/MS	Analysis Date:	08-Apr-2019
GC Column ID:	RTX5	Analysis Time:	19:01:00

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	SAMPLE QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Naphthalene d-8	1146-65-2		136,134	0.09	0.07-0.11	1870	1500-2500
2-Methylnaphthalene d-10	7297-45-2		152,151	0.19	0.15-0.23	1910	1480-2460
2,6-Dimethylnaphthalene d-12	350820-12-1		168,150	0.74	0.59-0.89	2070	1540-2570
Acenaphthylene d-8	93951-97-4		160,158	0.15	0.12-0.18	1970	1550-2580
Dibenzothiophene d-8	33262-29-2		192,160	0.09	0.07-0.11	1980	1530-2540
Phenanthrene d-10	1517-22-2		188,184	0.14	0.11-0.17	1810	1350-2260
Fluoranthene d-10	93951-69-0		212,208	0.16	0.13-0.19	2020	1490-2480
Benzo[a]anthracene d-12	1718-53-2		240,236	0.23	0.18-0.28	1950	1520-2540
Chrysene d-12	1719-03-5		240,236	0.26	0.21-0.31	1910	1470-2450
Benzo[b]fluoranthene d-12	93951-98-5		264,260	0.20	0.16-0.24	1920	1480-2460
Benzo[k]fluoranthene d-12	93952-01-3		264,260	0.19	0.15-0.23	2000	1500-2500
Benzo[a]pyrene d-12	63466-71-7		264,260	0.20	0.16-0.24	1960	1550-2590
Perylene d-12	1520-96-3		264,260	0.24	0.19-0.29	2110	1610-2690
Dibenzo[a,h]anthracene d-14	13250-98-1		292,288	0.28	0.18-0.38	1700	1440-2390
Indeno[1,2,3-cd]pyrene d-12	203578-33-0		288,284	0.17	0.11-0.23	1760	1490-2490
Benzo[ghi]perylene d-12	93951-66-7		288,284	0.19	0.12-0.26	1840	1490-2480

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Report Filename: GENERIC-SPECS_PAH_LO_PH9S1753.D__Form4B_SJ2543154.html; Workgroup: WG67275; Design ID: 3400]

Accreditation ScopeSGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 42

Accreditation Scope																		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 DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB DoD **																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

Accreditation ScopeSGS AXYS Analytical Services Ltd.
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Accreditation Scope																Serum	Solids		Tissue		Urine	Water	Water, Non-Potable																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

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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 DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB DoD **			
		EPA 8270	MLA-021				Y				Y	Y		Y		CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS		CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB DoD **	
		SGS AXYS MLA-021	MLA-021		Y	Y					Y	Y				Y						Y		Y										
	Benz[a]anthracene	EPA 1625	MLA-021																						Y		Y	Y						
		EPA 8270	MLA-021			Y				Y	Y		Y																					
		SGS AXYS MLA-021	MLA-021		Y	Y										Y						Y		Y										
	Benzo[a]pyrene	EPA 1625	MLA-021																						Y			Y	Y					
		EPA 8270	MLA-021			Y				Y	Y		Y															Y	Y					
		SGS AXYS MLA-021	MLA-021		Y	Y										Y						Y		Y										
	Benzo[b]fluoranthene	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										
	Benzo[e]pyrene	SGS AXYS MLA-021	MLA-021		Y											Y						Y				Y								
	Benzo[ghi]perylene	EPA 1625	MLA-021																						Y			Y	Y					
		EPA 8270	MLA-021			Y				Y	Y		Y																					
		SGS AXYS MLA-021	MLA-021		Y	Y										Y						Y		Y										
	Benzo[j/k]fluoranthenes	SGS AXYS MLA-021	MLA-021		Y											Y						Y												
	Benzo[k]fluoranthene	EPA 1625	MLA-021																						Y			Y	Y		Y			
		EPA 8270	MLA-021			Y				Y			Y																					
		SGS AXYS MLA-021	MLA-021			Y																			Y									
	Biphenyl	SGS AXYS MLA-021	MLA-021		Y																		Y											
	C1-Acenaphthenes	SGS AXYS MLA-021	MLA-021		Y																		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											
	Chrysene	EPA 1625	MLA-021																						Y			Y	Y					
		EPA 8270	MLA-021			Y				Y	Y		Y																					

Accreditation Scope																		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 DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB DoD **	
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 DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB DoD **	
	Dibenz[a,h]anthracene	SGS AXYS MLA-021	MLA-021															Y		Y										Y						Y		Y								
		EPA 1625	MLA-021																																											
		EPA 8270	MLA-021																	Y				Y	Y		Y																			
	Dibenzothiophene	SGS AXYS MLA-021	MLA-021															Y		Y											Y						Y		Y							
		EPA 1625	MLA-021																																											
		EPA 8270	MLA-021																	Y				Y	Y		Y												Y	Y						
	Fluorene	SGS AXYS MLA-021	MLA-021															Y		Y											Y					Y		Y								
		EPA 1625	MLA-021																																											
		EPA 8270	MLA-021																	Y				Y	Y		Y												Y	Y						
	Indeno[1,2,3-cd]pyrene	SGS AXYS MLA-021	MLA-021															Y		Y											Y					Y		Y								
		EPA 1625	MLA-021																																											
		EPA 8270	MLA-021																	Y				Y	Y		Y												Y	Y						
	Naphthalene	SGS AXYS MLA-021	MLA-021															Y		Y											Y				Y		Y									
		EPA 1625	MLA-021																																											
		EPA 8270	MLA-021																	Y				Y	Y		Y												Y	Y						
	Perylene	SGS AXYS MLA-021	MLA-021															Y		Y											Y				Y		Y									
		EPA 1625	MLA-021																																											
		EPA 8270	MLA-021																	Y				Y	Y		Y												Y	Y						
	Phenanthrene	SGS AXYS MLA-021	MLA-021															Y		Y											Y				Y		Y									
		EPA 1625	MLA-021																																											
		EPA 8270	MLA-021																	Y				Y	Y		Y												Y	Y						
	Pyrene	SGS AXYS MLA-021	MLA-021															Y		Y											Y				Y		Y									
		EPA 1625	MLA-021																																											
		EPA 8270	MLA-021																	Y				Y	Y		Y												Y	Y						
	Retene	SGS AXYS MLA-021	MLA-021															Y		Y											Y				Y		Y									
EPA 1625		MLA-021																																												
EPA 8270		MLA-021																	Y				Y	Y		Y												Y	Y							
PBDPE	BDE 10 2,6-dibromodiphenylether	EPA 1614	MLA-033																																											
		SGS AXYS MLA-033	MLA-033															Y	Y												Y				Y											
	BDE 100 2,2',4,4',6-pentabromodiphenylether	EPA 1614	MLA-033																																											
		SGS AXYS MLA-033	MLA-033															Y	Y													Y				Y										
	BDE 105 2,3,3',4,4'-pentabromodiphenylether	EPA 1614	MLA-033																																											
		SGS AXYS MLA-033	MLA-033															Y	Y													Y				Y										
	BDE 11 3,3'-dibromodiphenylether	EPA 1614	MLA-033																																											
		SGS AXYS MLA-033	MLA-033															Y	Y													Y				Y										
	BDE 116 2,3,4,5,6-pentabromodiphenylether	EPA 1614	MLA-033																																											
		SGS AXYS MLA-033	MLA-033															Y	Y														Y				Y									
	BDE 119 2,3',4,4',6-pentabromodiphenylether	EPA 1614	MLA-033																																											
		SGS AXYS MLA-033	MLA-033															Y	Y														Y				Y									
	BDE 12 3,4-dibromodiphenylether	EPA 1614	MLA-033																																											
		SGS AXYS MLA-033	MLA-033															Y	Y														Y				Y									
	BDE 126 3,3',4,4',5-pentabromodiphenylether	EPA 1614	MLA-033																																											
		SGS AXYS MLA-033	MLA-033															Y	Y														Y				Y									
	BDE 13 3,4'-dibromodiphenylether	EPA 1614	MLA-033																																											
		SGS AXYS MLA-033	MLA-033															Y	Y														Y				Y									
	BDE 140 2,2',3,4,4',6'-hexabromodiphenylether	EPA 1614	MLA-033																																											
		SGS AXYS MLA-033	MLA-033															Y	Y														Y				Y									
	BDE 15 4,4'-dibromodiphenylether	EPA 1614	MLA-033																																											
		SGS AXYS MLA-033	MLA-033															Y	Y														Y				Y									
	BDE 153 2,2',4,4',5,5'-hexabromodiphenylether	EPA 1614	MLA-033																																											
		SGS AXYS MLA-033	MLA-033															Y	Y														Y				Y									
	BDE 154 2,2',4,4',5',6-hexabromodiphenylether	EPA 1614	MLA-033																																											
SGS AXYS MLA-033		MLA-033															Y	Y														Y				Y										

Accreditation ScopeSGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 42

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Accreditation ScopeSGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 42

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Accreditation Scope				Serum		Solids		Tissue		Urine		Water		Water, Non-Potable	
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 42				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB DoD **	
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID												
	PCB 101/90/89	EPA 8270	MLA-007												
		SGS AXYS MLA-007	MLA-007		Y										
	PCB 102 2,2',4,5,6'-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 103 2,2',4,5',6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 104 2,2',4,6,6'-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 105 2,3,3',4,4'-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 105/127	EPA 8270	MLA-007									Y			
		SGS AXYS MLA-007	MLA-007		Y										
	PCB 106 2,3,3',4,5-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 107 2,3,3',4',5-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 107/109	EPA 8270	MLA-007									Y			
		SGS AXYS MLA-007	MLA-007		Y										
	PCB 108 2,3,3',4,5'-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 109 2,3,3',4,6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 11 3,3'-Dichlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 110 2,3,3',4',6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
		SGS AXYS MLA-007	MLA-007		Y										
	PCB 111 2,3,3',5,5'-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 111/117	EPA 8270	MLA-007									Y			
	PCB 112 2,3,3',5,6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 113 2,3,3',5',6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 114 2,3,4,4',5-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 115 2,3,4,4',6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 116 2,3,4,5,6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 117 2,3,4',5,6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 118 2,3',4,4',5-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			

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Accreditation Scope														Serum	Solids											Tissue		Urine	Water	Water, Non-Potable												
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 42																California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB DoD **		California DOH	Minnesota DOH	New Jersey DEP	Virginia DGS				California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB DoD **
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 DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CALA	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB DoD **										
		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											
		EPA 8270	MLA-007										Y																													
	PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y						Y		Y																			
		EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y										Y		Y	Y	Y	Y		Y											
	PCB 149 2,2',3,4',5',6'-Hexachlorobiphenyl	EPA 8270	MLA-007										Y																													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y						Y		Y																			
	PCB 149/139	EPA 1668	MLA-010			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																			
	PCB 15 4,4'-Dichlorobiphenyl	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											
		EPA 8270	MLA-007										Y																													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y						Y		Y																			
		SGS AXYS MLA-007	MLA-007		Y										Y						Y		Y																			
	PCB 150 2,2',3,4',6'-Hexachlorobiphenyl	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																			
		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																			
	PCB 151 2,2',3,5,5',6'-Hexachlorobiphenyl	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											
		EPA 8270	MLA-007										Y																													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y						Y		Y																			
	PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl	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												
		EPA 8270	MLA-007										Y																													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y						Y		Y																			
	PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl	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											
		EPA 8270	MLA-007										Y																													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y						Y		Y																			
	PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl	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												
		EPA 8270	MLA-007										Y																													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y						Y		Y																			
	PCB 155 2,2',4,4',6'-Hexachlorobiphenyl	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												
		EPA 8270	MLA-007										Y																													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y						Y		Y																			
	PCB 156 2,3,3',4,4',5'-Hexachlorobiphenyl	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												
		EPA 8270	MLA-007										Y																													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y						Y		Y																			
PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl	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													
	EPA 8270	MLA-007										Y																														
	SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y						Y		Y																				
PCB 158 2,3,3',4,4',6'-Hexachlorobiphenyl	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													
	EPA 8270	MLA-007										Y																														
	SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y						Y		Y																				
PCB 158/160	EPA 1668	MLA-010			Y									Y																												
	SGS AXYS MLA-007	MLA-007		Y										Y						Y		Y																				

Accreditation ScopeSGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 42

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SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 42				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB DoD **	
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 DoD **	
		EPA 8270	MLA-007												
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
		SGS AXYS MLA-007	MLA-007		Y										
	PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y		
		EPA 8270	MLA-007												
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl	SGS AXYS MLA-007	MLA-007		Y										
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			
		EPA 8270	MLA-007												
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
		SGS AXYS MLA-007	MLA-007		Y										
	PCB 2 3-Chlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y		
		EPA 8270	MLA-007												
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 20 2,3,3'-Trichlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y		
		SGS AXYS MLA-010	MLA-010	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		
		EPA 8270	MLA-007												
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y		
		EPA 8270	MLA-007												
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y		
		EPA 8270	MLA-007												
		SGS AXYS MLA-010	MLA-010	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		
		SGS AXYS MLA-010	MLA-010	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		
		EPA 8270	MLA-007												
		SGS AXYS MLA-010	MLA-010	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		
		EPA 8270	MLA-007												
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
	PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	SGS AXYS MLA-007	MLA-007		Y										
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y		
		EPA 8270	MLA-007												
	PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y									
		SGS AXYS MLA-007	MLA-007		Y										
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y		
	PCB 208 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	EPA 8270	MLA-007												
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									
		SGS AXYS MLA-007	MLA-007		Y										
	PCB 209 Decachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y		
		EPA 8270	MLA-007												
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									

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Accreditation ScopeSGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 42

Accreditation Scope				Serum	Solids	Tissue	Urine	Water	Water, Non-Poable																						
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 42																															
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 DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB DoD **
	PCB 49/43	EPA 8270	MLA-007									Y			Y						Y										
		SGS AXYS MLA-007	MLA-007		Y																										
	PCB 5 2,3-Dichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y										Y		Y	Y	Y	Y		Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y										Y					Y		Y								
	PCB 50 2,2',4,6-Tetrachlorobiphenyl	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								
		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	
		EPA 8270	MLA-007										Y																		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y										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	
		SGS AXYS MLA-010	MLA-010	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	
		EPA 8270	MLA-007										Y																		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y										Y					Y		Y								
	PCB 54 2,2',6,6'-Tetrachlorobiphenyl	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								
	PCB 55 2,3,3',4-Tetrachlorobiphenyl	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								
	PCB 56 2,3,3',4'-Tetrachlorobiphenyl	EPA 1668	MLA-010				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								
	PCB 56/60	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	
		EPA 8270	MLA-007										Y																		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y										Y					Y		Y								
	PCB 58 2,3,3',5'-Tetrachlorobiphenyl	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								
	PCB 59 2,3,3',6-Tetrachlorobiphenyl	EPA 1668	MLA-010				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								
	PCB 6 2,3'-Dichlorobiphenyl	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								
	PCB 60 2,3,4,4'-Tetrachlorobiphenyl	EPA 1668	MLA-010				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								
	PCB 61 2,3,4,5-Tetrachlorobiphenyl	EPA 1668	MLA-010				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								
	PCB 62 2,3,4,6-Tetrachlorobiphenyl	EPA 1668	MLA-010				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								
	PCB 62/65	EPA 8270	MLA-007										Y																		
	PCB 63 2,3,4',5-Tetrachlorobiphenyl	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								
	PCB 64 2,3,4',6-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y									Y		Y	Y	Y	Y		Y	

Accreditation ScopeSGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 42

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Accreditation Scope				Serum		Solids		Tissue		Urine		Water		Water, Non-Potable	
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 42				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB DoD **	
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID												
	PCB 8/5	EPA 8270	MLA-007												
		SGS AXYS MLA-007	MLA-007		Y							Y			Y
	PCB 80 3,3',5,5'-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 81 3,4,4',5-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 82 2,2',3,3',4-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 83 2,2',3,3',5-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 83/108	EPA 8270	MLA-007									Y			
		SGS AXYS MLA-007	MLA-007		Y										Y
	PCB 84 2,2',3,3',6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
		SGS AXYS MLA-007	MLA-007		Y							Y			Y
	PCB 85 2,2',3,4,4'-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 85/120	EPA 8270	MLA-007									Y			
		SGS AXYS MLA-007	MLA-007		Y										Y
	PCB 86 2,2',3,4,5-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 87 2,2',3,4,5'-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 87/115/116	EPA 8270	MLA-007									Y			
		SGS AXYS MLA-007	MLA-007		Y										Y
	PCB 88 2,2',3,4,6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 88/121	EPA 8270	MLA-007									Y			
	PCB 89 2,2',3,4,6'-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 9 2,5-Dichlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 90 2,2',3,4',5-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 91 2,2',3,4',6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
		SGS AXYS MLA-007	MLA-007		Y										Y
	PCB 92 2,2',3,5,5'-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 93 2,2',3,5,6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 94 2,2',3,5,6'-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y
		EPA 8270	MLA-007									Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y
	PCB 95 2,2',3,5',6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y			Y

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	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																				
	Sulfamerazine	EPA 1694	MLA-075										Y																						Y						
		SGS AXYS MLA-075	MLA-075		Y																Y																				
	Sulfamethazine	EPA 1694	MLA-075										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	Y																				

Accreditation Scope																						
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 42																						
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 DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP
	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									
	Decanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	Decenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	deoxycholic acid	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	docosahexaenoic acid (DHA)	SGS AXYS MLM-001	MLM-001										Y									
	docosatetraenoic acid (adrenic acid)	SGS AXYS MLM-001	MLM-001										Y									
	Dodecanedioylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	Dodecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	Dodecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	Dopamine	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	eicosapentaenoic acid (EPA)	SGS AXYS MLM-001	MLM-001										Y									
	Eicosatetraenoic acid (arachidonic acid)	SGS AXYS MLM-001	MLM-001										Y									
	eicosatrienoic acid (dihomo-γ-linolenic acid)	SGS AXYS MLM-001	MLM-001										Y									
	Glutaconylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	Glutamate	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	Glutamine	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	Glutaryl carnitine (Hydroxyhexanoylcarnitine)	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	Glycine	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	glycochenodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
	glycocholic acid	SGS AXYS MLM-001	MLM-001	Y									Y				Y					
glycodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
Hexadecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
hexadecanoic acid (palmitic acid)	SGS AXYS MLM-001	MLM-001										Y										
Hexadecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
hexadecenoic acid (palmitoleic acid)	SGS AXYS MLM-001	MLM-001										Y										
Hexadecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
Hexanoylcarnitine (Fumaryl carnitine)	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
Hexenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
Hexose (sum isomers)	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
Histamine	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
Histidine	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
Hydroxyhexadecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
Hydroxyhexadecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
Hydroxyhexadecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
Hydroxybutyrylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
Hydroxyoctadecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y				Y						
Hydroxyproline	SGS AXYS MLM-001	MLM-001	Y									Y				Y						

Accreditation Scope																		
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 42																		
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 DoD **		CALA	Florida DOH	Minnesota DOH
	Hydroxypropionylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y					
	Hydroxysphingomyeline C14:1	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Hydroxysphingomyeline C16:1	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Hydroxysphingomyeline C22:1	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Hydroxysphingomyeline C22:2	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Hydroxysphingomyeline C24:1	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Hydroxytetradecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Hydroxytetradecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Hydroxyvaleryl carnitine (Methylmalonylcarnitine)	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Isoleucine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Kynurenine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Leucine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lithocholic acid	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Lysine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C14:0	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C16:0	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C16:1	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C17:0	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C18:0	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C18:1	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C18:2	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C20:3	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C20:4	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C24:0	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C26:1	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C28:0	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	lysoPhosphatidylcholine acyl C28:1	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Methionine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Methioninesulfoxide	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Methylglutaryl carnitine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Nitrotyrosine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Nonacylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	octadecadienoic acid (linoleic acid)	SGS AXYS MLM-001	MLM-001										Y					
	Octadecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	octadecanoic acid (stearic acid)	SGS AXYS MLM-001	MLM-001										Y					
	Octadecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	octadecatrienoic acid (γ-linolenic acid)	SGS AXYS MLM-001	MLM-001										Y					
	Octadecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Octanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Ornithine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phenylalanine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phenylethylamine	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C30:0	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C30:1	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C30:2	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C32:1	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C32:2	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C34:0	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C34:1	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C34:2	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C34:3	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C36:0	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C36:1	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C36:2	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C36:3	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C36:4	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C36:5	SGS AXYS MLM-001	MLM-001	Y									Y		Y			
	Phosphatidylcholine acyl-alkyl C38:0	SGS AXYS MLM-001	MLM-001	Y									Y		Y			

Accreditation Scope				Serum		Solids		Tissue		Urine		Water		Water, Non-Potable	
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 42				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB DoD **	
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID												
Phosphatidylcholine acyl-alkyl	C38:1	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C38:2	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C38:3	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C38:5	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C38:6	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C40:1	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C40:2	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C40:3	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C40:4	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C40:5	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C40:6	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C42:0	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C42:1	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C42:2	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C42:3	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C42:4	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C42:5	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C44:3	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C44:4	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C44:5	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C44:6	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C24:0	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C26:0	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C28:1	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C30:0	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C30:2	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C32:0	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C32:1	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C32:2	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C32:3	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C34:1	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C34:2	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C34:3	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C34:4	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C36:0	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C36:1	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C36:2	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C36:3	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C36:4	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C36:5	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C36:6	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C38:0	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C38:1	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C38:3	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C38:4	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C38:5	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C38:6	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C40:1	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C40:2	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C40:3	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C40:4	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C40:5	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C40:6	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C42:0	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C42:1	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C42:2	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C42:4	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		
	C42:5	SGS AXYS MLM-001	MLM-001	Y	Y					Y	Y	Y	Y		

Accreditation Scope				SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 42																	
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 DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	Washington DE *	Maine DOH
	Phosphatidylcholine diacyl C42:6	SGS AXYS MLM-001	MLM-001	Y								Y									
	Pinelylcarnitine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Proline	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Propenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Propionylcarnitine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Putrescine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Sarcosine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Serine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Serotonin	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Spermidine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Spermine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Sphingomyeline C16:0	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Sphingomyeline C16:1	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Sphingomyeline C18:0	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Sphingomyeline C18:1	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Sphingomyeline C20:2	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Sphingomyeline C22:3	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Sphingomyeline C24:0	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Sphingomyeline C24:1	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Sphingomyeline C26:0	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Sphingomyeline C26:1	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Symmetric dimethylarginine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Taurine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	taurochenodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	taurocholic acid	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	taurodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	tauroolithocholic acid	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	taurooursodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Tetradecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	tetradecanoic acid (myristic acid)	SGS AXYS MLM-001	MLM-001									Y									
	Tetradecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Tetradecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Threonine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Tiglylcarnitine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Total dimethylarginine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Tryptophan	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Tyrosine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	ursodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Valerylcarnitine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
	Valine	SGS AXYS MLM-001	MLM-001	Y								Y		Y							
TBBPA	Tetrabromobisphenol A	SGS AXYS MLA-079	MLA-079	Y																	
TOP	Perfluorobutanesulfonate (PFBS)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluorobutanoate (PFBA)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluorodecanesulfonate (PFDS)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluorodecanoate (PFDA)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluorododecanesulfonate (PFDoS)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluorododecanoate (PFDoA)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluoroheptanesulfonate (PFHpS)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluoroheptanoate (PFHpA)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluorohexanesulfonate (PFHxS)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluorohexanoate (PFHxA)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluorononanesulfonate (PFNS)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluorononanoate (PFNA)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluorooctanesulfonate (PFOS)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluorooctanoate (PFOA)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluoropentanesulfonate (PFPeS)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluoropentanoate (PFPeA)	SGS AXYS MLA-111	MLA-111		Y											Y					
	Perfluorotetradecanoate (PFTeDA)	SGS AXYS MLA-111	MLA-111		Y											Y					

Accreditation Scope				Serum		Solids		Tissue		Urine	Water	Water, Non-Potable	
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 42				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH
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
	Perfluorotridecanoate (PFTTrDA)	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 SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.													
Note **													
PFAS by LC-MS/MS compliant with US DoD QSM 5.1.1 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 5.1.1 Standard)



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



CALA
Testing
Accreditation No. A 2637

