



2045 Mills Road West

TEL: (250) 655-5800

Sidney, BC, Canada V8L5X2

TOLL-FREE: 1-888-373-0881

SGS AXYS Client No.: 4114

Client Address: Florida Dept of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL, USA, 32399-2400

The SGS AXYS contact for these data is Megan Preik.

BATCH SUMMARY

Batch ID: WG59357	Date: 09-Aug-2017
Analysis Type: Multi Residue Pesticide	Matrix Type: Aqueous
BATCH MAKEUP	
Contract: 4114 Samples: L27146-1 QA/ QC BLANK SW FIELD L27146-2 SP-WITHLAC L27146-3 SP-OCHLCK L27146-4 SP-APALACH L27146-5 SP-ALAFIA	Blank: WG59357-101 Reference or Spike: WG59357-102 Duplicate:
Comments: RESUBMISSION 09-Aug-17: Data are being resubmitted to include 'B' flags as per client's requirement. Data of Hexazinone have been re-evaluated for samples named 'SP-APALACH' and 'SP-ALAFIA' (AXYS ID: L27146-4 and -5, respectively). No other changes were made. 1. Data are considered final. 2. Data are not blank corrected. Sample data should be evaluated with consideration of analyte levels in the Lab Blank (AXYS ID: WG59357-101). 3. Blank data should be evaluated against specifications using the same blank sample size as the size of the client samples. 4. Relative Percent Difference (RPD) values for Ethion, Hexazinone, ¹³C- Methoxychlor, ¹³C- cis-Permethrin and ¹³C-trans-Permethrin in the calibrations (data filename: MR7B_106 S:10/S:21) were not within the method control limit of 56%. • Since the RPD values of Native Methoxychlor, cis-Permethrin, trans-Permethrin, Cypermethrin-A, -B and -C, which were quantified against ¹³C- Methoxychlor, ¹³C- cis-Permethrin and ¹³C-trans-Permethrin, met the method specifications, data are not affected. • Given that Ethion was not detected in any client sample, data are not affected. • Hexazinone was detected in two client samples, which are 'SP-APALACH' and 'SP-ALAFIA' (AXYS ID: L27146-4 and -5, respectively), at concentrations slightly above the detection limits. The data of Hexazinone in these two client samples have been re-evaluated and reported as not detected. 5. The recoveries of Phorate and Terbufos were below the limit required for adequate quantification in the OPR (AXYS ID: WG59357-102) and are deemed not quantifiable; therefore, these analytes have been flagged with 'NQ' in all client and QC samples and no data are available. These losses are typical for these analytes due to the volatility and/or oxidation of their sulfur components. 6. Disulfoton was not recovered and Disulfoton-sulfone showed high recovery in the OPR WG59357-102. This may be partly due to the oxidation of Disulfoton to Disulfoton-sulfone during the analytical procedure. The results of Disulfoton should be reviewed in relation to Disulfoton-sulfone. Data for Disulfoton and Disulfoton-sulfone have been flagged with an 'H' in the reports indicating that the reported concentrations were estimated values.	

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February 2017

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



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

CHAIN OF CUSTODY

AXYS CLIENT #: 4114

REPORT TO: Dept. of Environmental Protection Company Water Quality Assessment Program Address 2600 Blair Stone Road, MS# MS3525 Tallahassee, Florida 32399 United States Contact Alicia Hogue Phone 850-245-8553 FAX E-mail alicia.hogue@dep.state.fl.us				INVOICE TO: Dept. of Environmental Protection Company Water Quality Assessment Program Address 2600 Blair Stone Road, MS# MS3525 Tallahassee, Florida 32399 United States Contact Alicia Hogue Phone 850-245-8553 FAX E-mail alicia.hogue@dep.state.fl.us				ANALYSIS REQUESTED								
Project Name/Number: FL DEP Emerging Contaminants (ESOC) Pilot Study				Sampler's Name: <i>M. A. Eckles</i> Signature: <i>[Signature]</i>				Hormones	MRES 1699 Pesticides with ONs	Alkylphenols	PBDEs (Short List)	PPCPs (Lists 1, 3, 4, 5, 6)	PFCs			
Client Sample Identification				AXYS Lab Sample ID (Lab use only)												
	Matrix	Sampling Date	Sampling Time	Container Type/No.												
 QA/QC BLANK SW FIELD ESOC-PILOT QA/QC BLANK SW FIELD	water	4/17/17	10:15	1L glass / 8	L27146-1	X	X	X	X							
	water	4/17/17	10:15	1 L HDPE / 4	-1					X						
	water	4/17/17	10:15	500mL HDPE / 2	-1							X				
Relinquished by (Signature) <i>[Signature]</i> Date 4/17/17 Time				Received by (Signature) <i>[Signature]</i> Date 18 Apr-2017 Time 11:20				Courier FedEx		Waybill No. 8617 8238 9083						
Relinquished by (Signature) Date Time				Received by (Signature) Date Time				Sample Receipt								
Remarks													Temp °C		Cooler	
													Custody Seal #			
													Seal Intact Y / N			
													Sample Tags Y / N			



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

CHAIN OF CUSTODY

AXYS CLIENT #: 4114

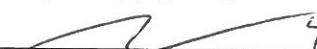
REPORT TO: Dept. of Environmental Protection Company Water Quality Assessment Program Address 2600 Blair Stone Road, MS# MS3525 Tallahassee, Florida 32399 United States Contact Alicia Hogue Phone 850-245-8553 FAX E-mail alicia.hogue@dep.state.fl.us		INVOICE TO: Dept. of Environmental Protection Company Water Quality Assessment Program Address 2600 Blair Stone Road, MS# MS3525 Tallahassee, Florida 32399 United States Contact Alicia Hogue Phone 850-245-8553 FAX E-mail alicia.hogue@dep.state.fl.us		ANALYSIS REQUESTED							
Project Name/Number: FL DEP Emerging Contaminants (ESOC) Pilot Study		Sampler's Name: <i>M. A. Eckles</i> Signature: <i>[Signature]</i>				Hormones	MRES 1699 Pesticides with ONs	Alkylphenols	PBDEs (Short List)	PPCPs (Lists 1, 3, 4, 5, 6)	PFCs
Client Sample Identification	Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)						
 SP-WITHLAC ESOC-PILOT WITHLACOCHEE RIVER AT SR-150	water	4/17/17	15:10	1L glass / 8	L27146-2	X	X	X	X		
	water	4/17/17	15:10	1 L HDPE / 4	-2					X	
	water	4/17/17	15:10	500mL HDPE / 2	-2						X
Relinquished by (Signature) <i>[Signature]</i>		Date 4/17/17	Time	Received by (Signature) <i>[Signature]</i>		Courier FedEx	Waybill No. 8445-4868 8438				
Relinquished by (Signature)		Date	Time	Received by (Signature)		Sample Receipt					
Remarks				Date		Cooler					
				Temp °C							
				Custody Seal #							
				Seal Intact Y / N							
				Sample Tags Y / N							



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

CHAIN OF CUSTODY

AXYS CLIENT #: 4114

REPORT TO:		Dept. of Environmental Protection		INVOICE TO:		Dept. of Environmental Protection		ANALYSIS REQUESTED					
Company		Water Quality Assessment Program		Company		Water Quality Assessment Program		Hormones	MRES 1699 Pesticides with ONs	Alkylphenols	PBDEs (Short List)	PPCPs (Lists 1, 3, 4, 5, 6)	PFCs
Address		2600 Blair Stone Road, MS# MS3525		Address		2600 Blair Stone Road, MS# MS3525							
		Tallahassee, Florida 32399				Tallahassee, Florida 32399							
		United States				United States							
Contact		Alicia Hogue		Contact		Alicia Hogue							
Phone		850-245-8553		Phone		850-245-8553							
FAX				FAX									
E-mail		alicia.hogue@dep.state.fl.us		E-mail		alicia.hogue@dep.state.fl.us							
Project Name/Number:				Sampler's Name:									
FL DEP Emerging Contaminants (ESOC) Pilot Study				Signature:									
Client Sample Identification		Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)							
 SP-OCHLCK ESOC-PILOT OCHLOCKNEE RIVER AT LEON COUNTY ROAD 12		water	4/17/17	12:15	1L glass / 8	L27146-3		X	X	X	X		
		water	4/17/17	12:15	1 L HDPE / 4	-3						X	
		water	4/17/17	12:15	500mL HDPE / 2	-3							X
Relinquished by (Signature)		Date		Time		Received by (Signature)		Courier FedEx		Waybill No.			
		4/17/17						8617		8238 9120			
Relinquished by (Signature)		Date		Time		Received by (Signature)							
Remarks						Date		Time		Sample Receipt			
										Cooler			
										Temp °C			
										Custody Seal #			
										Seal Intact Y / N			
										Sample Tags Y / N			

CHAIN OF CUSTODY

AXYS CLIENT #: 4114

- **SGS** AXYS

CHAIN OF CUSTODY

AXYS CLIENT #: 4114

REPORT TO: Dept. of Environmental Protection			INVOICE TO: Dept. of Environmental Protection			ANALYSIS REQUESTED						
Company Water Quality Assessment Program			Company Water Quality Assessment Program			Hormones	MRES 1699 Pesticides with ON's	Alkylphenols	PBDEs (Short List)	PPCPs (Lists 1, 3, 4, 5, 6)	PFCs	
Address 2600 Blair Stone Road, MS# MS3525			Address 2600 Blair Stone Road, MS# MS3525									
Tallahassee, Florida 32399			Tallahassee, Florida 32399									
United States			United States									
Contact Alicia Hogue			Contact Alicia Hogue									
Phone 850-245-8553			Phone 850-245-8553									
FAX			FAX									
E-mail alicia.hogue@dep.state.fl.us			E-mail alicia.hogue@dep.state.fl.us									
Project Name/Number: FL DEP Emerging Contaminants (ESOC) Pilot Study			Sampler's Name: Matthew Bearden Signature: <i>Matthew Bearden</i>									
Client Sample Identification		Matrix	Sampling Date	Sampling Time	Container Type/No.	AXYS Lab Sample ID (Lab use only)						
		water	4/18/17	10:15	1L glass / 8	L27146	X	X	X	X		
		water	4/18/17	10:15	1 L HDPE / 4	L27146-5	MSW 19 APR 2017 -5					X
		water	4/18/17	10:15	500mL HDPE / 2		-5					X
SP-ALAFIA												
ESOC-PILOT ALAFIA RIVER AT BELL SHOALS ROAD												
Relinquished by (Signature) <i>Matthew Bearden</i>		Date 4/18/17	Time 1300	Received by (Signature) <i>Matthew Bearden</i>		Courier FedEx	Waybill No. 8617 8238 9109					
Relinquished by (Signature)		Date	Time	Received by (Signature)		Sample Receipt						
Remarks				Date	Time	Temp °C		Cooler				
						Custody Seal #						
						Seal Intact Y / N						
						Sample Tags Y / N						

AXYS METHOD MLA-035 Rev 07

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
QA/ QC BLANK SW FIELD
Sample Collection:
17-Apr-2017 10:15

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 15-May-2017 Time: 21:38:43

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/L

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-1

0.897 L

BRACKETING CAL

HR GC/MS

DB17-MS

MR7B_106 S: 16

MR7B_106 S: 15

MR7B_106 S: 10

MR7B_106 S: 21

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
Tecnazene	117-18-0	U		0.111 (Q)		
Hexachlorobenzene	118-74-1	B	0.016	0.0111 (Q)	1.15	1.001
Quintozene	82-68-8	U		0.111 (Q)		
Heptachlor	76-44-8	U		0.0125 (S)		
HCH, alpha	319-84-6	U		0.0165 (S)		
HCH, gamma	58-89-9	U		0.0366 (S)		
HCH, beta	319-85-7	U		0.0173 (S)		
HCH, delta	319-86-8	U		0.0190 (S)		
Chlorothalonil *	1897-45-6	U		0.111 (Q)		
Aldrin	309-00-2	U		0.0111 (Q)		
Dacthal *	1861-32-1	U		0.111 (Q)		
Octachlorostyrene	29082-74-4	U		0.0137 (S)		
Chlordane, oxy-	27304-13-8	U		0.0225 (S)		
Heptachlor Epoxide	1024-57-3	K B	0.042	0.0255 (S)	4.71	0.999
Chlordane, gamma (trans)	5103-74-2	U		0.0276 (S)		
Chlordane, alpha (cis)	5103-71-9	U		0.0283 (S)		
Nonachlor, trans-	39765-80-5	U		0.0274 (S)		
Nonachlor, cis-	5103-73-1		0.022	0.0177 (S)	1.53	1.000
alpha-Endosulphan	959-98-8	K B	0.324	0.0518 (S)	3.07	1.001
beta-Endosulphan	33213-65-9	K B	0.232	0.0310 (S)	0.17	0.999
Dieldrin	60-57-1	U		0.0149 (S)		
2,4'-DDD	53-19-0	U		0.109 (S)		
4,4'-DDD	72-54-8	U		0.113 (S)		
2,4'-DDE	3424-82-6	U		0.0473 (S)		
4,4'-DDE	72-55-9	U		0.0695 (S)		
2,4'-DDT	789-02-6	U		0.195 (S)		
4,4'-DDT	50-29-3	U		0.206 (S)		
Captan *	133-06-2	U		0.759 (S)		
Perthane *	72-56-0	U		0.686 (S)		
Endrin	72-20-8	U		0.0196 (S)		
Endosulphan Sulphate	1031-07-8	U		0.0295 (S)		
Mirex	2385-85-5	U		0.0111 (Q)		
Methoxychlor	72-43-5	U		0.323 (S)		
Endrin Ketone	53494-70-5	K	0.102	0.0692 (S)	3.17	1.008
Desethylatrazine	6190-65-4	U		0.111 (Q)		
Simazine	122-34-9	U		0.424 (S)		
Atrazine	1912-24-9	U		0.806 (S)		
Ametryn *	834-12-8	U		0.111 (Q)		

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Metribuzin *	21087-64-9	U		1.01 (S)		
Cyanazine *	21725-46-2	U		2.42 (S)		
Hexazinone *	51235-04-2	U		0.250 (S)		
Phorate *	298-02-2	NQ				
Terbufos *	13071-79-9	NQ				
Diazinon-Oxon	962-58-3	U		0.398 (S)		
Diazinon	333-41-5	U		0.328 (S)		
Disulfoton *	298-04-4	U H		0.713 (S)		
Fonofos	944-22-9	U		0.111 (Q)		
Dimethoate *	60-51-5	U		8.23 (S)		
Chlorpyrifos-Methyl *	5598-13-0	U		0.111 (Q)		
Parathion-Methyl *	298-00-0	U		2.70 (S)		
Pirimiphos-Methyl *	29232-93-7	U		0.111 (Q)		
Chlorpyrifos *	2921-88-2	U		0.169 (S)		
Fenitrothion *	122-14-5	U		0.566 (S)		
Malathion *	121-75-5	U		1.65 (S)		
Parathion-Ethyl *	56-38-2	U		0.719 (S)		
Chlorpyrifos-Oxon *	5598-15-2	U		0.267 (S)		
Disulfoton Sulfone *	2497-06-5	U H		0.234 (S)		
Ethion *	563-12-2	U		0.611 (S)		
Phosmet *	732-11-6	U		0.529 (S)		
Azinphos-Methyl	86-50-0	U		1.87 (S)		
Permethrin	52645-53-1	U		0.242 (S)		
Cypermethrin	52315-07-8	U		1.03 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank; H = concentration is estimated; NQ = data not quantifiable.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.
* results are not recovery corrected.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2211838

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_L27146-1_Form1A_MR7B_106S16_SJ2211838.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
QA/ QC BLANK SW FIELD
Sample Collection:
17-Apr-2017 10:15

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 15-May-2017 Time: 21:38:43

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:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-1

0.897 L

BRACKETING CAL

HR GC/MS

DB17-MS

MR7B_106 S: 16

MR7B_106 S: 15

MR7B_106 S: 10

MR7B_106 S: 21

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		36.0	18.4	51.2	1.27	0.726
13C-Heptachlor		32.0	19.5	61.0	1.32	0.896
13C-gamma-HCH		32.0	21.8	68.1	0.81	0.834
13C-beta-HCH		32.2	29.6	92.1	0.81	0.889
13C-delta-HCH		32.0	30.4	95.2	0.79	0.962
13C-Aldrin		32.0	19.5	60.8	1.64	0.972
13C-Chlordane, oxy		32.0	25.4	79.5	1.52	1.106
13C-Heptachlor-Epoxy		32.0	26.4	82.6	1.61	1.154
13C-Chlordane, gamma (trans)		32.0	29.5	92.2	1.61	1.221
13C-Nonachlor, trans-		32.0	30.2	94.3	1.54	1.228
13C-Nonachlor, cis-		32.0	34.0	106	1.54	1.520
13C-alpha-Endosulphan		32.0	25.9	81.0	1.62	1.276
13C-beta-Endosulphan		32.0	30.5	95.3	1.69	1.576
13C-Dieldrin		32.0	29.7	92.7	1.56	1.397
13C-4,4'-DDE		32.0	31.6	98.7	1.54	1.400
13C-2,4'-DDT		32.0	31.1	97.0	1.57	1.550
13C-4,4'-DDT		32.4	28.9	89.3	1.60	1.636
13C-Endrin		32.0	31.5	98.5	1.59	1.503
13C-Mirex		32.0	26.2	81.8	1.61	1.800
13C-Methoxychlor		32.0	24.3	76.0	1.71	1.809
13C-Atrazine		32.0	26.5	82.9	3.06	0.820
D10-Diazinon		32.0	23.3	72.7	1.69	0.800
13C-Fonofos		32.0	16.0	49.9	17.3	0.841
D6-Azinphos-Methyl		32.0	32.7	102	8.32	1.938
13C-Permethrin, cis-		16.0	14.1	87.9	5.88	1.915
13C-Permethrin, trans-		16.0	14.0	87.8	5.23	1.929

(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: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_L27146-1_Form2_MR7B_106S16_SJ2211838.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
QA/ QC BLANK SW FIELD
Sample Collection:
17-Apr-2017 10:15

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 01-Jun-2017 Time: 02:12:54

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Project No.

Lab Sample I.D.: L27146-1 i

Sample Size: 0.897 L

Initial Calibration Date: BRACKETING CAL

Instrument ID: HR GC/MS

GC Column ID: DB17-MS

Sample Data Filename: ON7B_123 S: 8

Blank Data Filename: ON7B_107 S: 8

Opening Cal. Data Filename: ON7B_123 S: 4

Closing Cal. Data Filename: ON7B_123 S: 10

Concentration Units: ng/L

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Butylate *	2008-41-5	U		0.111 (Q)		
Ethylfluralin *	55283-68-6	U		0.200 (S)		
Trifluralin *	1582-09-8	U		0.111 (Q)		
Triallate *	2303-17-5	U		0.147 (S)		
Dimethenamid *	87674-68-8	U		0.111 (Q)		
Alachlor	15972-60-8	K B	0.261	0.151 (S)	2.13	1.000
Methoprene *	40596-69-8	U		10.4 (S)		
Butralin *	33629-47-9	U		0.796 (S)		
Flufenacet *	142459-58-3	U		0.939 (S)		
Metolachlor	51218-45-2	U		0.111 (Q)		
Linuron	330-55-2	U		1.66 (S)		
Pendimethalin *	40487-42-1	U		1.13 (S)		
Flutriafol *	76674-21-0		0.504	0.403 (S)	9.12	1.135
Tebuconazol *	107534-96-3	U		0.583 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.
* results are not recovery corrected.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2218162

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

Signed: _____Ting Chen_____

For Axs Internal Use Only [XSL Template: Pest1A.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_L27146-1_Form1A_ON7B_123S8_SJ2218162.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
QA/ QC BLANK SW FIELD
Sample Collection:
17-Apr-2017 10:15

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 01-Jun-2017 Time: 02:12:54

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:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-1 i

0.897 L

BRACKETING CAL

HR GC/MS

DB17-MS

ON7B_123 S: 8

ON7B_107 S: 8

ON7B_123 S: 4

ON7B_123 S: 10

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Alachlor		32.0	29.6	92.5	1.24	0.978
13C-Metolachlor		32.0	31.5	98.4	16.9	1.017
D6-Linuron		132	133	101	1.48	1.025

(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: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest2.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_L27146-1_Form2_ON7B_123S8_SJ2218162.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-WITHLAC
Sample Collection:
17-Apr-2017 15:10

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 15-May-2017 Time: 22:31:01

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/L

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-2

0.894 L

BRACKETING CAL

HR GC/MS

DB17-MS

MR7B_106 S: 17

MR7B_106 S: 15

MR7B_106 S: 10

MR7B_106 S: 21

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
Tecnazene	117-18-0	U		0.112 (Q)		
Hexachlorobenzene	118-74-1	B	0.021	0.0112 (Q)	1.11	1.000
Quintozene	82-68-8	U		0.112 (Q)		
Heptachlor	76-44-8	U		0.0151 (S)		
HCH, alpha	319-84-6	U		0.0182 (S)		
HCH, gamma	58-89-9	U		0.0244 (S)		
HCH, beta	319-85-7		0.030	0.0291 (S)	1.79	1.001
HCH, delta	319-86-8	U		0.0281 (S)		
Chlorothalonil *	1897-45-6	U		0.112 (Q)		
Aldrin	309-00-2	U		0.0112 (Q)		
Dacthal *	1861-32-1	U		0.112 (Q)		
Octachlorostyrene	29082-74-4	U		0.0124 (S)		
Chlordane, oxy-	27304-13-8	U		0.0363 (S)		
Heptachlor Epoxide	1024-57-3	U		0.0177 (S)		
Chlordane, gamma (trans)	5103-74-2	K B	0.033	0.0221 (S)	0.98	1.001
Chlordane, alpha (cis)	5103-71-9	U		0.0227 (S)		
Nonachlor, trans-	39765-80-5	U		0.0220 (S)		
Nonachlor, cis-	5103-73-1	U		0.0168 (S)		
alpha-Endosulphan	959-98-8	K B	0.547	0.0377 (S)	11.5	1.000
beta-Endosulphan	33213-65-9	K B	0.303	0.0726 (S)	0.25	1.000
Dieldrin	60-57-1	K	0.080	0.0116 (S)	2.28	1.001
2,4'-DDD	53-19-0	U		0.0913 (S)		
4,4'-DDD	72-54-8	U		0.128 (S)		
2,4'-DDE	3424-82-6	U		0.0474 (S)		
4,4'-DDE	72-55-9	U		0.0696 (S)		
2,4'-DDT	789-02-6	U		0.226 (S)		
4,4'-DDT	50-29-3	U		0.233 (S)		
Captan *	133-06-2	U		0.961 (S)		
Perthane *	72-56-0	U		1.38 (S)		
Endrin	72-20-8	U		0.0185 (S)		
Endosulphan Sulphate	1031-07-8		0.284	0.0691 (S)	0.56	1.068
Mirex	2385-85-5	K	0.017	0.0112 (Q)	0.90	1.000
Methoxychlor	72-43-5	U		1.23 (S)		
Endrin Ketone	53494-70-5	U		0.0672 (S)		
Desethylatrazine	6190-65-4		4.31	0.208 (S)	3.40	1.055
Simazine	122-34-9		2.93	0.702 (S)	2.94	1.019
Atrazine	1912-24-9		33.2	0.986 (S)	2.64	1.001
Ametryn *	834-12-8	U		0.224 (S)		

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
Metribuzin *	21087-64-9	U		1.36 (S)		
Cyanazine *	21725-46-2	U		3.59 (S)		
Hexazinone *	51235-04-2	U		1.31 (S)		
Phorate *	298-02-2	NQ				
Terbufos *	13071-79-9	NQ				
Diazinon-Oxon	962-58-3	U		0.538 (S)		
Diazinon	333-41-5	U		0.284 (S)		
Disulfoton *	298-04-4	U H		0.764 (S)		
Fonofos	944-22-9	U		0.112 (Q)		
Dimethoate *	60-51-5	U		6.53 (S)		
Chlorpyrifos-Methyl *	5598-13-0	U		0.112 (Q)		
Parathion-Methyl *	298-00-0	U		4.80 (S)		
Pirimiphos-Methyl *	29232-93-7	U		0.112 (Q)		
Chlorpyrifos *	2921-88-2	U		0.238 (S)		
Fenitrothion *	122-14-5	U		0.565 (S)		
Malathion *	121-75-5	U		2.30 (S)		
Parathion-Ethyl *	56-38-2	U		1.03 (S)		
Chlorpyrifos-Oxon *	5598-15-2	U		0.189 (S)		
Disulfoton Sulfone *	2497-06-5	U H		0.264 (S)		
Ethion *	563-12-2	U		0.783 (S)		
Phosmet *	732-11-6	U		0.508 (S)		
Azinphos-Methyl	86-50-0	U		8.52 (S)		
Permethrin	52645-53-1	U		0.623 (S)		
Cypermethrin	52315-07-8	U		0.987 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank; H = concentration is estimated; NQ = data not quantifiable.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.
* results are not recovery corrected.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2211839

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_L27146-2_Form1A_MR7B_106S17_SJ2211839.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-WITHLAC
Sample Collection:
17-Apr-2017 15:10

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 15-May-2017 Time: 22:31:01

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:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-2

0.894 L

BRACKETING CAL

HR GC/MS

DB17-MS

MR7B_106 S: 17

MR7B_106 S: 15

MR7B_106 S: 10

MR7B_106 S: 21

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		36.0	18.7	51.9	1.26	0.726
13C-Heptachlor		32.0	21.7	67.8	1.28	0.896
13C-gamma-HCH		32.0	25.1	78.4	0.82	0.834
13C-beta-HCH		32.2	27.8	86.3	0.78	0.889
13C-delta-HCH		32.0	31.1	97.2	0.80	0.961
13C-Aldrin		32.0	21.2	66.2	1.63	0.971
13C-Chlordane, oxy		32.0	30.0	93.9	1.69	1.106
13C-Heptachlor-Epoxy		32.0	30.0	93.8	1.68	1.153
13C-Chlordane, gamma (trans)		32.0	30.1	94.0	1.50	1.221
13C-Nonachlor, trans-		32.0	31.7	99.0	1.60	1.227
13C-Nonachlor, cis-		32.0	35.3	110	1.57	1.520
13C-alpha-Endosulphan		32.0	30.3	94.6	1.65	1.276
13C-beta-Endosulphan		32.0	30.2	94.5	1.41	1.575
13C-Dieldrin		32.0	33.1	104	1.62	1.396
13C-4,4'-DDE		32.0	34.1	107	1.55	1.400
13C-2,4'-DDT		32.0	36.5	114	1.59	1.549
13C-4,4'-DDT		32.4	34.6	107	1.59	1.635
13C-Endrin		32.0	34.6	108	1.61	1.502
13C-Mirex		32.0	32.5	101	1.64	1.799
13C-Methoxychlor		32.0	27.4	85.6	20.5	1.808
13C-Atrazine		32.0	28.0	87.4	3.00	0.821
D10-Diazinon		32.0	24.1	75.2	1.45	0.800
13C-Fonofos		32.0	19.7	61.5	16.2	0.841
D6-Azinphos-Methyl		32.0	31.0	96.8	7.09	1.937
13C-Permethrin, cis-		16.0	16.3	102	6.42	1.914
13C-Permethrin, trans-		16.0	15.8	98.8	5.82	1.928

(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: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_L27146-2_Form2_MR7B_106S17_SJ2211839.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-WITHLAC
Sample Collection:
17-Apr-2017 15:10

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 17-May-2017 Time: 14:29:36

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/L

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-2

0.894 L

BRACKETING CAL

HR GC/MS

DB17-MS

ON7B_107 S: 12

ON7B_107 S: 8

ON7B_107 S: 3

ON7B_107 S: 16

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
Butylate *	2008-41-5	U		0.112 (Q)		
Ethylfluralin *	55283-68-6	U		0.280 (S)		
Trifluralin *	1582-09-8	U		0.112 (Q)		
Triallate *	2303-17-5	U		0.176 (S)		
Dimethenamid *	87674-68-8		0.436	0.112 (Q)	2.78	0.991
Alachlor	15972-60-8	U		0.564 (S)		
Methoprene *	40596-69-8	U		58.2 (S)		
Butralin *	33629-47-9	U		3.27 (S)		
Flufenacet *	142459-58-3	U		3.65 (S)		
Metolachlor	51218-45-2		63.5	0.444 (S)	8.33	1.000
Linuron	330-55-2	U		2.17 (S)		
Pendimethalin *	40487-42-1	U		2.13 (S)		
Flutriafof *	76674-21-0	U		1.50 (S)		
Tebuconazol *	107534-96-3		2.82	0.543 (S)	2.95	1.212

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

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

* results are not recovery corrected.

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_L27146-2_Form1A_ON7B_107S12_SJ2213480.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-WITHLAC
Sample Collection:
17-Apr-2017 15:10

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 17-May-2017 Time: 14:29:36

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:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-2

0.894 L

BRACKETING CAL

HR GC/MS

DB17-MS

ON7B_107 S: 12

ON7B_107 S: 8

ON7B_107 S: 3

ON7B_107 S: 16

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Alachlor		32.0	32.4	101	1.63	0.979
13C-Metolachlor		32.0	36.2	113	9.35	1.019
D6-Linuron		132	113	85.9	1.52	1.026

(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: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest2.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_L27146-2_Form2_ON7B_107S12_SJ2213480.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-OCHLCK
Sample Collection:
17-Apr-2017 12:15

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4114	Project No.	FL DEP EMERGING CONTAMINANTS ESOC PILOT L27146-3
Matrix:	AQUEOUS	Lab Sample I.D.:	
Sample Receipt Date:	18-Apr-2017	Sample Size:	0.867 L
Extraction Date:	04-May-2017	Initial Calibration Date:	BRACKETING CAL
Analysis Date:	15-May-2017 Time: 23:23:24	Instrument ID:	HR GC/MS
Extract Volume (uL):	400	GC Column ID:	DB17-MS
Injection Volume (uL):	1.0	Sample Data Filename:	MR7B_106 S: 18
Dilution Factor:	N/A	Blank Data Filename:	MR7B_106 S: 15
		Opening Cal. Data Filename:	MR7B_106 S: 10
		Closing Cal. Data Filename:	MR7B_106 S: 21
Concentration Units:	ng/L		

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Tecnazene	117-18-0	U		0.115 (Q)		
Hexachlorobenzene	118-74-1	B	0.022	0.0115 (Q)	0.96	1.000
Quintozone	82-68-8	U		0.115 (Q)		
Heptachlor	76-44-8	U		0.0115 (Q)		
HCH, alpha	319-84-6	U		0.0173 (S)		
HCH, gamma	58-89-9	U		0.0400 (S)		
HCH, beta	319-85-7	K	0.027	0.0220 (S)	1.08	1.000
HCH, delta	319-86-8	U		0.0247 (S)		
Chlorothalonil *	1897-45-6	U		0.115 (Q)		
Aldrin	309-00-2	K	0.013	0.0115 (Q)	2.15	1.000
Dacthal *	1861-32-1	U		0.115 (Q)		
Octachlorostyrene	29082-74-4	U		0.0149 (S)		
Chlordane, oxy-	27304-13-8	U		0.0460 (S)		
Heptachlor Epoxide	1024-57-3	K B	0.040	0.0167 (S)	17.5	1.002
Chlordane, gamma (trans)	5103-74-2	K B	0.041	0.0197 (S)	4.24	1.002
Chlordane, alpha (cis)	5103-71-9	U		0.0203 (S)		
Nonachlor, trans-	39765-80-5	K	0.037	0.0208 (S)	2.15	1.001
Nonachlor, cis-	5103-73-1	U		0.0176 (S)		
alpha-Endosulphan	959-98-8	K B	0.686	0.0368 (S)	7.85	1.001
beta-Endosulphan	33213-65-9	K B	0.172	0.0514 (S)	0.12	1.000
Dieldrin	60-57-1		0.187	0.0115 (Q)	1.17	1.001
2,4'-DDD	53-19-0	U		0.0973 (S)		
4,4'-DDD	72-54-8	U		0.115 (S)		
2,4'-DDE	3424-82-6	U		0.0406 (S)		
4,4'-DDE	72-55-9	MAX	0.108	0.0597 (S)	1.44	1.000
2,4'-DDT	789-02-6	U		0.200 (S)		
4,4'-DDT	50-29-3	U		0.209 (S)		
Captan *	133-06-2	U		0.855 (S)		
Perthane *	72-56-0	U		0.975 (S)		
Endrin	72-20-8	B	0.041	0.0194 (S)	1.53	1.001
Endosulphan Sulphate	1031-07-8		0.231	0.0489 (S)	0.72	1.068
Mirex	2385-85-5	K	0.040	0.0115 (Q)	0.97	1.000
Methoxychlor	72-43-5	U		1.16 (S)		
Endrin Ketone	53494-70-5	K	0.089	0.0557 (S)	1.37	1.008
Desethylatrazine	6190-65-4		3.46	0.115 (Q)	3.31	1.056
Simazine	122-34-9		4.06	0.913 (S)	3.74	1.019
Atrazine	1912-24-9		19.7	0.932 (S)	2.28	1.000
Ametryn *	834-12-8	U		0.156 (S)		

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
Metribuzin *	21087-64-9	U		1.50 (S)		
Cyanazine *	21725-46-2	U		3.24 (S)		
Hexazinone *	51235-04-2	U		0.723 (S)		
Phorate *	298-02-2	NQ				
Terbufos *	13071-79-9	NQ				
Diazinon-Oxon	962-58-3	U		0.287 (S)		
Diazinon	333-41-5	U		0.115 (Q)		
Disulfoton *	298-04-4	U H		0.693 (S)		
Fonofos	944-22-9	U		0.115 (Q)		
Dimethoate *	60-51-5	U		6.77 (S)		
Chlorpyrifos-Methyl *	5598-13-0	U		0.115 (Q)		
Parathion-Methyl *	298-00-0	U		3.71 (S)		
Pirimiphos-Methyl *	29232-93-7	U		0.115 (Q)		
Chlorpyrifos *	2921-88-2	U		0.194 (S)		
Fenitrothion *	122-14-5	U		0.563 (S)		
Malathion *	121-75-5	U		1.24 (S)		
Parathion-Ethyl *	56-38-2	U		0.891 (S)		
Chlorpyrifos-Oxon *	5598-15-2	U		0.180 (S)		
Disulfoton Sulfone *	2497-06-5	U H		0.216 (S)		
Ethion *	563-12-2	U		0.703 (S)		
Phosmet *	732-11-6	U		0.512 (S)		
Azinphos-Methyl	86-50-0	U		7.08 (S)		
Permethrin	52645-53-1	U		0.582 (S)		
Cypermethrin	52315-07-8	U		1.04 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank; H = concentration is estimated; MAX = concentration is an estimated maximum value; NQ = data not quantifiable.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.
* results are not recovery corrected.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2211840

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_L27146-3_Form1A_MR7B_106S18_SJ2211840.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-OCHLCK
Sample Collection:
17-Apr-2017 12:15

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 15-May-2017 Time: 23:23:24

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:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-3

0.867 L

BRACKETING CAL

HR GC/MS

DB17-MS

MR7B_106 S: 18

MR7B_106 S: 15

MR7B_106 S: 10

MR7B_106 S: 21

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		36.0	17.7	49.3	1.28	0.726
13C-Heptachlor		32.0	18.9	59.0	1.30	0.896
13C-gamma-HCH		32.0	23.0	71.7	0.78	0.834
13C-beta-HCH		32.2	28.9	89.8	0.80	0.889
13C-delta-HCH		32.0	28.9	90.2	0.79	0.961
13C-Aldrin		32.0	20.0	62.7	1.69	0.972
13C-Chlordane, oxy		32.0	25.4	79.4	1.49	1.106
13C-Heptachlor-Epoxy		32.0	27.1	84.7	1.64	1.153
13C-Chlordane, gamma (trans)		32.0	29.7	92.7	1.68	1.221
13C-Nonachlor, trans-		32.0	28.0	87.5	1.58	1.228
13C-Nonachlor, cis-		32.0	31.8	99.4	1.51	1.520
13C-alpha-Endosulphan		32.0	26.2	81.8	1.57	1.276
13C-beta-Endosulphan		32.0	28.8	90.0	1.51	1.576
13C-Dieldrin		32.0	29.3	91.5	1.64	1.397
13C-4,4'-DDE		32.0	30.4	94.9	1.54	1.401
13C-2,4'-DDT		32.0	31.8	99.5	1.59	1.550
13C-4,4'-DDT		32.4	29.6	91.4	1.62	1.636
13C-Endrin		32.0	30.8	96.3	1.54	1.503
13C-Mirex		32.0	27.5	85.9	1.55	1.800
13C-Methoxychlor		32.0	24.7	77.3	17.9	1.809
13C-Atrazine		32.0	21.5	67.3	2.95	0.821
D10-Diazinon		32.0	21.2	66.4	1.57	0.800
13C-Fonofos		32.0	17.2	53.7	15.2	0.841
D6-Azinphos-Methyl		32.0	26.1	81.6	8.63	1.938
13C-Permethrin, cis-		16.0	14.2	88.7	6.69	1.915
13C-Permethrin, trans-		16.0	14.0	87.5	5.99	1.929

(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: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_L27146-3_Form2_MR7B_106S18_SJ2211840.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-OCHLCK
Sample Collection:
17-Apr-2017 12:15

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 17-May-2017 Time: 15:01:43

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/L

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-3

0.867 L

BRACKETING CAL

HR GC/MS

DB17-MS

ON7B_107 S: 13

ON7B_107 S: 8

ON7B_107 S: 3

ON7B_107 S: 16

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
Butylate *	2008-41-5	U		0.115 (Q)		
Ethylfluralin *	55283-68-6	U		0.245 (S)		
Trifluralin *	1582-09-8	U		0.115 (Q)		
Triallate *	2303-17-5	U		0.176 (S)		
Dimethenamid *	87674-68-8		963	0.200 (S)	2.81	0.990
Alachlor	15972-60-8	U		0.502 (S)		
Methoprene *	40596-69-8	U		44.8 (S)		
Butralin *	33629-47-9	U		1.70 (S)		
Flufenacet *	142459-58-3	U		2.56 (S)		
Metolachlor	51218-45-2		60.6	0.525 (S)	8.24	1.001
Linuron	330-55-2	U		2.44 (S)		
Pendimethalin *	40487-42-1	U		1.94 (S)		
Flutriafol *	76674-21-0	U		1.14 (S)		
Tebuconazol *	107534-96-3		2.44	0.411 (S)	2.97	1.213

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

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

* results are not recovery corrected.

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

Signed: _____Ting Chen_____

For Axy's Internal Use Only [XSL Template: Pest1A.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_L27146-3_Form1A_ON7B_107S13_SJ2213481.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-OCHLCK
Sample Collection:
17-Apr-2017 12:15

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 17-May-2017 Time: 15:01:43

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:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-3

0.867 L

BRACKETING CAL

HR GC/MS

DB17-MS

ON7B_107 S: 13

ON7B_107 S: 8

ON7B_107 S: 3

ON7B_107 S: 16

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Alachlor		32.0	27.2	84.9	1.42	0.979
13C-Metolachlor		32.0	26.6	83.1	9.97	1.018
D6-Linuron		132	81.1	61.4	1.48	1.026

(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: _____Ting Chen_____

For Axy's Internal Use Only [XSL Template: Pest2.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_L27146-3_Form2_ON7B_107S13_SJ2213481.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-APALACH
Sample Collection:
17-Apr-2017 09:55

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 16-May-2017 Time: 00:15:32

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/L

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-4

0.919 L

BRACKETING CAL

HR GC/MS

DB17-MS

MR7B_106 S: 19

MR7B_106 S: 15

MR7B_106 S: 10

MR7B_106 S: 21

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
Tecnazene	117-18-0	U		0.109 (Q)		
Hexachlorobenzene	118-74-1	B	0.022	0.0109 (Q)	1.06	1.000
Quintozene	82-68-8	U		0.109 (Q)		
Heptachlor	76-44-8	U		0.0133 (S)		
HCH, alpha	319-84-6		0.207	0.0193 (S)	2.06	1.042
HCH, gamma	58-89-9	K	0.048	0.0381 (S)	1.19	1.001
HCH, beta	319-85-7		0.198	0.0270 (S)	2.41	1.002
HCH, delta	319-86-8	U		0.0303 (S)		
Chlorothalonil *	1897-45-6	U		0.109 (Q)		
Aldrin	309-00-2	K	0.011	0.0109 (Q)	2.21	1.001
Dacthal *	1861-32-1	U		0.109 (Q)		
Octachlorostyrene	29082-74-4	U		0.0144 (S)		
Chlordane, oxy-	27304-13-8	K B	0.047	0.0214 (S)	6.43	1.001
Heptachlor Epoxide	1024-57-3	K B	0.093	0.0165 (S)	14.1	1.000
Chlordane, gamma (trans)	5103-74-2	K B	0.044	0.0200 (S)	4.14	1.002
Chlordane, alpha (cis)	5103-71-9	U		0.0205 (S)		
Nonachlor, trans-	39765-80-5	K	0.023	0.0187 (S)	1.02	1.001
Nonachlor, cis-	5103-73-1	K	0.032	0.0176 (S)	3.96	1.001
alpha-Endosulphan	959-98-8	K B	0.412	0.0399 (S)	5.41	1.000
beta-Endosulphan	33213-65-9	K B	0.214	0.0488 (S)	0.19	1.000
Dieldrin	60-57-1		0.131	0.0109 (Q)	1.82	1.002
2,4'-DDD	53-19-0	U		0.124 (S)		
4,4'-DDD	72-54-8	U		0.150 (S)		
2,4'-DDE	3424-82-6	U		0.0516 (S)		
4,4'-DDE	72-55-9	U		0.0758 (S)		
2,4'-DDT	789-02-6	U		0.261 (S)		
4,4'-DDT	50-29-3	U		0.273 (S)		
Captan *	133-06-2	U		1.12 (S)		
Perthane *	72-56-0	U		0.897 (S)		
Endrin	72-20-8	U		0.0194 (S)		
Endosulphan Sulphate	1031-07-8	U		0.0465 (S)		
Mirex	2385-85-5	K	0.014	0.0109 (Q)	2.05	1.000
Methoxychlor	72-43-5	U		1.23 (S)		
Endrin Ketone	53494-70-5	U		0.0793 (S)		
Desethylatrazine	6190-65-4		3.94	0.158 (S)	3.23	1.056
Simazine	122-34-9		31.4	0.498 (S)	3.08	1.020
Atrazine	1912-24-9		39.3	1.17 (S)	2.83	1.001
Ametryn *	834-12-8	U		0.178 (S)		

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
Metribuzin *	21087-64-9	U		1.08 (S)		
Cyanazine *	21725-46-2	U		3.13 (S)		
Hexazinone *	51235-04-2	U		0.945 (S)		
Phorate *	298-02-2	NQ				
Terbufos *	13071-79-9	NQ				
Diazinon-Oxon	962-58-3	U		0.530 (S)		
Diazinon	333-41-5	U		0.271 (S)		
Disulfoton *	298-04-4	U H		0.851 (S)		
Fonofos	944-22-9	U		0.109 (Q)		
Dimethoate *	60-51-5	U		7.84 (S)		
Chlorpyrifos-Methyl *	5598-13-0	U		0.109 (Q)		
Parathion-Methyl *	298-00-0	U		3.55 (S)		
Pirimiphos-Methyl *	29232-93-7	U		0.109 (Q)		
Chlorpyrifos *	2921-88-2	K	0.488	0.192 (S)	0.80	0.975
Fenitrothion *	122-14-5	U		0.658 (S)		
Malathion *	121-75-5	U		1.38 (S)		
Parathion-Ethyl *	56-38-2	U		1.00 (S)		
Chlorpyrifos-Oxon *	5598-15-2	U		0.189 (S)		
Disulfoton Sulfone *	2497-06-5	U H		0.286 (S)		
Ethion *	563-12-2	U		0.787 (S)		
Phosmet *	732-11-6	U		0.541 (S)		
Azinphos-Methyl	86-50-0	U		5.29 (S)		
Permethrin	52645-53-1	U		0.723 (S)		
Cypermethrin	52315-07-8	U		1.08 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank; H = concentration is estimated; NQ = data not quantifiable.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.
* results are not recovery corrected.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2211841

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_L27146-4_Form1A_MR7B_106S19_SJ2211841.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-APALACH
Sample Collection:
17-Apr-2017 09:55

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 16-May-2017 Time: 00:15:32

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Project No.

Lab Sample I.D.:

Sample Size: 0.919 L

Initial Calibration Date: BRACKETING CAL

Instrument ID: HR GC/MS

GC Column ID: DB17-MS

Sample Data Filename: MR7B_106 S: 19

Blank Data Filename: MR7B_106 S: 15

Opening Cal. Data Filename: MR7B_106 S: 10

Closing Cal. Data Filename: MR7B_106 S: 21

Concentration Units: ng absolute

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		36.0	18.4	51.2	1.26	0.727
13C-Heptachlor		32.0	19.8	61.8	1.23	0.897
13C-gamma-HCH		32.0	23.7	74.1	0.78	0.834
13C-beta-HCH		32.2	29.7	92.2	0.78	0.890
13C-delta-HCH		32.0	29.7	92.8	0.84	0.962
13C-Aldrin		32.0	20.6	64.5	1.61	0.972
13C-Chlordane, oxy		32.0	24.9	77.9	1.50	1.106
13C-Heptachlor-Epoxy		32.0	27.0	84.3	1.68	1.154
13C-Chlordane, gamma (trans)		32.0	28.4	88.8	1.56	1.222
13C-Nonachlor, trans-		32.0	30.5	95.3	1.65	1.229
13C-Nonachlor, cis-		32.0	31.1	97.3	1.53	1.521
13C-alpha-Endosulphan		32.0	25.1	78.5	1.59	1.277
13C-beta-Endosulphan		32.0	27.2	84.9	1.66	1.577
13C-Dieldrin		32.0	29.1	91.0	1.61	1.397
13C-4,4'-DDE		32.0	29.7	92.9	1.53	1.402
13C-2,4'-DDT		32.0	29.9	93.4	1.61	1.551
13C-4,4'-DDT		32.4	27.4	84.7	1.61	1.637
13C-Endrin		32.0	30.0	93.7	1.59	1.503
13C-Mirex		32.0	28.2	88.1	1.58	1.801
13C-Methoxychlor		32.0	22.7	71.0	15.2	1.810
13C-Atrazine		32.0	24.0	75.0	3.11	0.821
D10-Diazinon		32.0	25.4	79.3	1.58	0.801
13C-Fonofos		32.0	16.7	52.2	15.7	0.842
D6-Azinphos-Methyl		32.0	31.3	97.7	6.54	1.938
13C-Permethrin, cis-		16.0	13.5	84.6	6.29	1.916
13C-Permethrin, trans-		16.0	13.1	82.1	5.50	1.928

(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: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_L27146-4_Form2_MR7B_106S19_SJ2211841.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-APALACH
Sample Collection:
17-Apr-2017 09:55

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 01-Jun-2017 **Time:** 02:45:11

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Project No. FL DEP EMERGING
CONTAMINANTS ESOC PILOT

Lab Sample I.D.: L27146-4 i

Sample Size: 0.919 L

Initial Calibration Date: BRACKETING CAL

Instrument ID: HR GC/MS

GC Column ID: DB17-MS

Sample Data Filename: ON7B_123 S: 9

Blank Data Filename: ON7B_107 S: 8

Opening Cal. Data Filename: ON7B_123 S: 4

Closing Cal. Data Filename: ON7B_123 S: 10

Concentration Units: ng/L

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Butylate *	2008-41-5	U		0.109 (Q)		
Ethalfuralin *	55283-68-6	U		0.263 (S)		
Trifluralin *	1582-09-8	U		0.109 (Q)		
Triallate *	2303-17-5	U		0.195 (S)		
Dimethenamid *	87674-68-8	U		0.109 (Q)		
Alachlor	15972-60-8	K B	0.474	0.412 (S)	1.80	1.000
Methoprene *	40596-69-8	U		19.8 (S)		
Butralin *	33629-47-9	U		1.06 (S)		
Flufenacet *	142459-58-3	U		5.27 (S)		
Metolachlor	51218-45-2		11.5	0.169 (S)	8.12	1.001
Linuron	330-55-2	U		2.15 (S)		
Pendimethalin *	40487-42-1	U		1.15 (S)		
Flutriafof *	76674-21-0	U		0.973 (S)		
Tebuconazol *	107534-96-3		1.75	0.252 (S)	2.66	1.214

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.
* results are not recovery corrected.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2218163

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_L27146-4_Form1A_ON7B_123S9_SJ2218163.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-APALACH
Sample Collection:
17-Apr-2017 09:55

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 18-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 01-Jun-2017 Time: 02:45:11

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:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-4 i

0.919 L

BRACKETING CAL

HR GC/MS

DB17-MS

ON7B_123 S: 9

ON7B_107 S: 8

ON7B_123 S: 4

ON7B_123 S: 10

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Alachlor		32.0	28.8	90.1	1.22	0.978
13C-Metolachlor		32.0	30.8	96.4	16.9	1.017
D6-Linuron		132	127	96.4	1.51	1.025

(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: _____Ting Chen_____

For Axy's Internal Use Only [XSL Template: Pest2.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_L27146-4_Form2_ON7B_123S9_SJ2218163.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-ALAFIA
Sample Collection:
18-Apr-2017 10:15

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4114	Project No.	FL DEP EMERGING CONTAMINANTS ESOC PILOT
Matrix:	AQUEOUS	Lab Sample I.D.:	L27146-5
Sample Receipt Date:	19-Apr-2017	Sample Size:	0.960 L
Extraction Date:	04-May-2017	Initial Calibration Date:	BRACKETING CAL
Analysis Date:	16-May-2017 Time: 01:07:46	Instrument ID:	HR GC/MS
Extract Volume (uL):	400	GC Column ID:	DB17-MS
Injection Volume (uL):	1.0	Sample Data Filename:	MR7B_106 S: 20
Dilution Factor:	N/A	Blank Data Filename:	MR7B_106 S: 15
		Opening Cal. Data Filename:	MR7B_106 S: 10
		Closing Cal. Data Filename:	MR7B_106 S: 21
Concentration Units:	ng/L		

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Tecnazene	117-18-0	U		0.104 (Q)		
Hexachlorobenzene	118-74-1	B	0.017	0.0104 (Q)	0.97	1.000
Quintozene	82-68-8	U		0.104 (Q)		
Heptachlor	76-44-8	U		0.0104 (Q)		
HCH, alpha	319-84-6	U		0.0149 (S)		
HCH, gamma	58-89-9	U		0.0217 (S)		
HCH, beta	319-85-7	U		0.0237 (S)		
HCH, delta	319-86-8	U		0.0279 (S)		
Chlorothalonil *	1897-45-6	U		0.104 (Q)		
Aldrin	309-00-2	U		0.0104 (Q)		
Dacthal *	1861-32-1	U		0.104 (Q)		
Octachlorostyrene	29082-74-4	U		0.0174 (S)		
Chlordane, oxy-	27304-13-8	B	0.051	0.0217 (S)	1.94	0.999
Heptachlor Epoxide	1024-57-3	K B	0.046	0.0152 (S)	18.4	1.001
Chlordane, gamma (trans)	5103-74-2	U		0.0177 (S)		
Chlordane, alpha (cis)	5103-71-9	U		0.0182 (S)		
Nonachlor, trans-	39765-80-5	U		0.0184 (S)		
Nonachlor, cis-	5103-73-1	U		0.0156 (S)		
alpha-Endosulphan	959-98-8	K B	0.450	0.0330 (S)	27.4	1.000
beta-Endosulphan	33213-65-9	K B	0.147	0.0426 (S)	0.12	1.000
Dieldrin	60-57-1		0.018	0.0104 (Q)	1.42	1.001
2,4'-DDD	53-19-0	U		0.110 (S)		
4,4'-DDD	72-54-8	U		0.115 (S)		
2,4'-DDE	3424-82-6	U		0.0555 (S)		
4,4'-DDE	72-55-9	U		0.0815 (S)		
2,4'-DDT	789-02-6	U		0.191 (S)		
4,4'-DDT	50-29-3	U		0.210 (S)		
Captan *	133-06-2	U		0.948 (S)		
Perthane *	72-56-0	U		0.859 (S)		
Endrin	72-20-8	B	0.019	0.0183 (S)	1.38	1.002
Endosulphan Sulphate	1031-07-8		0.117	0.0405 (S)	0.67	1.069
Mirex	2385-85-5	U		0.0104 (Q)		
Methoxychlor	72-43-5	U		1.01 (S)		
Endrin Ketone	53494-70-5	U		0.0668 (S)		
Desethylatrazine	6190-65-4		4.83	0.213 (S)	3.44	1.056
Simazine	122-34-9		0.947	0.469 (S)	3.04	1.020
Atrazine	1912-24-9	K	4.51	0.742 (S)	1.39	1.002
Ametryn *	834-12-8	U		0.145 (S)		

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
Metribuzin *	21087-64-9	U		1.61 (S)		
Cyanazine *	21725-46-2	U		2.92 (S)		
Hexazinone *	51235-04-2	U		0.611 (S)		
Phorate *	298-02-2	NQ				
Terbufos *	13071-79-9	NQ				
Diazinon-Oxon	962-58-3	U		0.442 (S)		
Diazinon	333-41-5	U		0.255 (S)		
Disulfoton *	298-04-4	U H		0.761 (S)		
Fonofos	944-22-9	U		0.104 (Q)		
Dimethoate *	60-51-5	U		6.83 (S)		
Chlorpyrifos-Methyl *	5598-13-0	U		0.104 (Q)		
Parathion-Methyl *	298-00-0	U		2.75 (S)		
Pirimiphos-Methyl *	29232-93-7	U		0.104 (Q)		
Chlorpyrifos *	2921-88-2	U		0.205 (S)		
Fenitrothion *	122-14-5	U		0.421 (S)		
Malathion *	121-75-5	U		1.14 (S)		
Parathion-Ethyl *	56-38-2	U		0.830 (S)		
Chlorpyrifos-Oxon *	5598-15-2	U		0.253 (S)		
Disulfoton Sulfone *	2497-06-5	U H		0.261 (S)		
Ethion *	563-12-2	U		0.672 (S)		
Phosmet *	732-11-6	U		0.441 (S)		
Azinphos-Methyl	86-50-0	U		4.13 (S)		
Permethrin	52645-53-1	U		0.552 (S)		
Cypermethrin	52315-07-8	U		1.13 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank; H = concentration is estimated; NQ = data not quantifiable.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.
* results are not recovery corrected.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2211842

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_L27146-5_Form1A_MR7B_106S20_SJ2211842.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-ALAFIA
Sample Collection:
18-Apr-2017 10:15

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 19-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 16-May-2017 Time: 01:07:46

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:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-5

0.960 L

BRACKETING CAL

HR GC/MS

DB17-MS

MR7B_106 S: 20

MR7B_106 S: 15

MR7B_106 S: 10

MR7B_106 S: 21

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		36.0	18.4	51.1	1.27	0.726
13C-Heptachlor		32.0	18.5	57.7	1.24	0.896
13C-gamma-HCH		32.0	23.1	72.3	0.81	0.834
13C-beta-HCH		32.2	28.6	88.7	0.83	0.889
13C-delta-HCH		32.0	27.2	85.1	0.80	0.962
13C-Aldrin		32.0	19.2	60.0	1.66	0.972
13C-Chlordane, oxy		32.0	23.3	72.9	1.49	1.106
13C-Heptachlor-Epoxy		32.0	24.8	77.5	1.64	1.154
13C-Chlordane, gamma (trans)		32.0	26.6	83.2	1.57	1.221
13C-Nonachlor, trans-		32.0	26.0	81.4	1.48	1.228
13C-Nonachlor, cis-		32.0	30.1	94.2	1.61	1.520
13C-alpha-Endosulphan		32.0	23.7	74.1	1.60	1.276
13C-beta-Endosulphan		32.0	26.1	81.7	1.47	1.575
13C-Dieldrin		32.0	27.9	87.1	1.65	1.397
13C-4,4'-DDE		32.0	27.9	87.1	1.53	1.401
13C-2,4'-DDT		32.0	27.9	87.1	1.62	1.550
13C-4,4'-DDT		32.4	25.0	77.1	1.59	1.636
13C-Endrin		32.0	27.4	85.7	1.55	1.503
13C-Mirex		32.0	26.3	82.2	1.65	1.800
13C-Methoxychlor		32.0	21.9	68.4	15.7	1.809
13C-Atrazine		32.0	24.6	76.9	3.14	0.820
D10-Diazinon		32.0	20.5	64.1	1.46	0.800
13C-Fonofos		32.0	16.7	52.1	16.8	0.841
D6-Azinphos-Methyl		32.0	30.1	94.0	7.47	1.938
13C-Permethrin, cis-		16.0	12.7	79.1	6.25	1.915
13C-Permethrin, trans-		16.0	12.1	75.8	5.67	1.929

(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: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_L27146-5_Form2_MR7B_106S20_SJ2211842.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-ALAFIA
Sample Collection:
18-Apr-2017 10:15

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 19-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 17-May-2017 Time: 16:05:38

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/L

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-5

0.960 L

BRACKETING CAL

HR GC/MS

DB17-MS

ON7B_107 S: 15

ON7B_107 S: 8

ON7B_107 S: 3

ON7B_107 S: 16

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
Butylate *	2008-41-5	U		0.104 (Q)		
Ethalfuralin *	55283-68-6	U		0.189 (S)		
Trifluralin *	1582-09-8	U		0.104 (Q)		
Triallate *	2303-17-5	U		0.125 (S)		
Dimethenamid *	87674-68-8		0.219	0.104 (Q)	3.05	0.990
Alachlor	15972-60-8	U		0.311 (S)		
Methoprene *	40596-69-8	U		41.3 (S)		
Butralin *	33629-47-9	U		1.89 (S)		
Flufenacet *	142459-58-3	U		1.84 (S)		
Metolachlor	51218-45-2	B	1.53	0.179 (S)	9.49	1.000
Linuron	330-55-2	U		1.92 (S)		
Pendimethalin *	40487-42-1	U		1.10 (S)		
Flutriafol *	76674-21-0		1.77	0.615 (S)	5.46	1.135
Tebuconazol *	107534-96-3		7.56	0.245 (S)	3.16	1.214

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.
* results are not recovery corrected.**NOTE:** This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2213483

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_L27146-5_Form1A_ON7B_107S15_SJ2213483.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
SP-ALAFIA
Sample Collection:
18-Apr-2017 10:15

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4114

Matrix: AQUEOUS

Sample Receipt Date: 19-Apr-2017

Extraction Date: 04-May-2017

Analysis Date: 17-May-2017 Time: 16:05:38

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:

Opening Cal. Data Filename:

Closing Cal. Data Filename:

FL DEP EMERGING
CONTAMINANTS ESOC PILOT
L27146-5

0.960 L

BRACKETING CAL

HR GC/MS

DB17-MS

ON7B_107 S: 15

ON7B_107 S: 8

ON7B_107 S: 3

ON7B_107 S: 16

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Alachlor		32.0	26.7	83.5	1.55	0.979
13C-Metolachlor		32.0	29.5	92.2	11.2	1.018
D6-Linuron		132	112	84.9	1.54	1.026

(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: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_L27146-5_Form2_ON7B_107S15_SJ2213483.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

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.: 4114

Matrix: AQUEOUS

Sample Receipt Date: N/A

Extraction Date: 04-May-2017

Analysis Date: 15-May-2017 Time: 20:46:28

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/L

Project No.

N/A

Lab Sample I.D.:

WG59357-101

Sample Size:

1.00 L

Initial Calibration Date:

BRACKETING CAL

Instrument ID:

HR GC/MS

GC Column ID:

DB17-MS

Sample Data Filename:

MR7B_106 S: 15

Blank Data Filename:

MR7B_106 S: 15

Opening Cal. Data Filename:

MR7B_106 S: 10

Closing Cal. Data Filename:

MR7B_106 S: 21

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
Tecnazene	117-18-0	U		0.100 (Q)		
Hexachlorobenzene	118-74-1		0.018	0.0100 (Q)	1.06	1.001
Quintozene	82-68-8	U		0.100 (Q)		
Heptachlor	76-44-8	U		0.0167 (S)		
HCH, alpha	319-84-6	U		0.0248 (S)		
HCH, gamma	58-89-9	U		0.0308 (S)		
HCH, beta	319-85-7	U		0.0204 (S)		
HCH, delta	319-86-8	U		0.0227 (S)		
Chlorothalonil *	1897-45-6	U		0.100 (Q)		
Aldrin	309-00-2	U		0.0100 (Q)		
Dacthal *	1861-32-1	U		0.100 (Q)		
Octachlorostyrene	29082-74-4	U		0.0120 (S)		
Chlordane, oxy-	27304-13-8	K	0.034	0.0175 (S)	5.24	1.000
Heptachlor Epoxide	1024-57-3	K	0.067	0.0229 (S)	3.39	1.001
Chlordane, gamma (trans)	5103-74-2	K	0.033	0.0263 (S)	6.68	1.000
Chlordane, alpha (cis)	5103-71-9	U		0.0270 (S)		
Nonachlor, trans-	39765-80-5	U		0.0270 (S)		
Nonachlor, cis-	5103-73-1	U		0.0213 (S)		
alpha-Endosulphan	959-98-8	K	0.219	0.0449 (S)	2.82	1.000
beta-Endosulphan	33213-65-9	K	0.339	0.0480 (S)	0.22	1.000
Dieldrin	60-57-1	U		0.0141 (S)		
2,4'-DDD	53-19-0	U		0.107 (S)		
4,4'-DDD	72-54-8	U		0.161 (S)		
2,4'-DDE	3424-82-6	U		0.0503 (S)		
4,4'-DDE	72-55-9	U		0.0738 (S)		
2,4'-DDT	789-02-6	U		0.296 (S)		
4,4'-DDT	50-29-3	U		0.293 (S)		
Captan *	133-06-2	U		0.904 (S)		
Perthane *	72-56-0	U		0.600 (S)		
Endrin	72-20-8	K	0.046	0.0254 (S)	6.38	1.001
Endosulphan Sulphate	1031-07-8	U		0.0457 (S)		
Mirex	2385-85-5	U		0.0100 (Q)		
Methoxychlor	72-43-5	U		0.246 (S)		
Endrin Ketone	53494-70-5	U		0.0944 (S)		
Desethylatrazine	6190-65-4	U		0.100 (Q)		
Simazine	122-34-9	U		0.496 (S)		
Atrazine	1912-24-9	U		0.870 (S)		
Ametryn *	834-12-8	U		0.100 (Q)		

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
Metribuzin *	21087-64-9	U		0.720 (S)		
Cyanazine *	21725-46-2	U		2.68 (S)		
Hexazinone *	51235-04-2	U		0.215 (S)		
Phorate *	298-02-2	NQ				
Terbufos *	13071-79-9	NQ				
Diazinon-Oxon	962-58-3	U		0.381 (S)		
Diazinon	333-41-5	U		0.361 (S)		
Disulfoton *	298-04-4	U H		0.967 (S)		
Fonofos	944-22-9	U		0.100 (Q)		
Dimethoate *	60-51-5	U		6.26 (S)		
Chlorpyrifos-Methyl *	5598-13-0	U		0.100 (Q)		
Parathion-Methyl *	298-00-0	U		2.20 (S)		
Pirimiphos-Methyl *	29232-93-7	U		0.100 (Q)		
Chlorpyrifos *	2921-88-2	U		0.166 (S)		
Fenitrothion *	122-14-5	U		0.517 (S)		
Malathion *	121-75-5	U		1.45 (S)		
Parathion-Ethyl *	56-38-2	U		0.487 (S)		
Chlorpyrifos-Oxon *	5598-15-2	U		0.205 (S)		
Disulfoton Sulfone *	2497-06-5	U H		0.285 (S)		
Ethion *	563-12-2	U		0.539 (S)		
Phosmet *	732-11-6	U		0.281 (S)		
Azinphos-Methyl	86-50-0	U		0.933 (S)		
Permethrin	52645-53-1	U		0.227 (S)		
Cypermethrin	52315-07-8	U		1.41 (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; H = concentration is estimated; NQ = data not quantifiable.

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

* results are not recovery corrected.

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_WG59357-101_Form1A_MR7B_106S15_SJ2211836.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

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.: 4114

Project No.

N/A

Lab Sample I.D.:

WG59357-101

Matrix: AQUEOUS

Sample Size:

1.00 L

Sample Receipt Date: N/A

Initial Calibration Date:

BRACKETING CAL

Extraction Date: 04-May-2017

Instrument ID:

HR GC/MS

Analysis Date: 15-May-2017 Time: 20:46:28

GC Column ID:

DB17-MS

Extract Volume (uL): 400

Sample Data Filename:

MR7B_106 S: 15

Injection Volume (uL): 1.0

Blank Data Filename:

MR7B_106 S: 15

Dilution Factor: N/A

Opening Cal. Data Filename:

MR7B_106 S: 10

Closing Cal. Data Filename:

MR7B_106 S: 21

Concentration Units: ng absolute

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

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Hexachlorobenzene		36.0	20.8	57.9	1.27	0.726
13C-Heptachlor		32.0	19.8	62.0	1.25	0.896
13C-gamma-HCH		32.0	24.0	75.1	0.78	0.834
13C-beta-HCH		32.2	31.4	97.4	0.80	0.889
13C-delta-HCH		32.0	31.7	99.0	0.82	0.961
13C-Aldrin		32.0	19.9	62.3	1.57	0.972
13C-Chlordane, oxy		32.0	27.1	84.7	1.62	1.106
13C-Heptachlor-Epoxide		32.0	26.4	82.5	1.66	1.153
13C-Chlordane, gamma (trans)		32.0	30.2	94.5	1.64	1.221
13C-Nonachlor, trans-		32.0	28.7	89.8	1.60	1.228
13C-Nonachlor, cis-		32.0	32.7	102	1.57	1.520
13C-alpha-Endosulphan		32.0	28.8	89.9	1.59	1.276
13C-beta-Endosulphan		32.0	34.5	108	1.52	1.576
13C-Dieldrin		32.0	30.6	95.6	1.57	1.397
13C-4,4'-DDE		32.0	32.6	102	1.55	1.401
13C-2,4'-DDT		32.0	29.6	92.6	1.54	1.550
13C-4,4'-DDT		32.4	29.9	92.2	1.55	1.636
13C-Endrin		32.0	30.8	96.3	1.55	1.502
13C-Mirex		32.0	27.2	85.1	1.58	1.801
13C-Methoxychlor		32.0	22.2	69.3	17.2	1.809
13C-Atrazine		32.0	27.2	84.9	3.01	0.821
D10-Diazinon		32.0	22.2	69.4	1.35	0.800
13C-Fonofos		32.0	20.0	62.6	15.1	0.841
D6-Azinphos-Methyl		32.0	35.7	111	8.62	1.938
13C-Permethrin, cis-		16.0	11.7	73.2	5.33	1.915
13C-Permethrin, trans-		16.0	11.5	71.7	4.82	1.928

(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: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest2.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_WG59357-101_Form2_MR7B_106S15_SJ2211836.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

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.: 4114

Matrix: AQUEOUS

Sample Receipt Date: N/A

Extraction Date: 04-May-2017

Analysis Date: 17-May-2017 Time: 12:21:11

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/L

Project No.

N/A

Lab Sample I.D.:

WG59357-101

Sample Size:

1.00 L

Initial Calibration Date:

BRACKETING CAL

Instrument ID:

HR GC/MS

GC Column ID:

DB17-MS

Sample Data Filename:

ON7B_107 S: 8

Blank Data Filename:

ON7B_107 S: 8

Opening Cal. Data Filename:

ON7B_107 S: 3

Closing Cal. Data Filename:

ON7B_107 S: 16

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
Butylate *	2008-41-5	U		0.201 (S)		
Ethalfuralin *	55283-68-6	U		0.215 (S)		
Trifluralin *	1582-09-8	U		0.100 (Q)		
Triallate *	2303-17-5	U		0.157 (S)		
Dimethenamid *	87674-68-8	U		0.100 (Q)		
Alachlor	15972-60-8		0.212	0.133 (S)	2.14	1.000
Methoprene *	40596-69-8	U		22.8 (S)		
Butralin *	33629-47-9	U		1.75 (S)		
Flufenacet *	142459-58-3	K	0.311	0.277 (S)	16.3	1.001
Metolachlor	51218-45-2		0.569	0.128 (S)	6.86	1.000
Linuron	330-55-2	U		1.79 (S)		
Pendimethalin *	40487-42-1	U		1.10 (S)		
Flutriafol *	76674-21-0	U		0.643 (S)		
Tebuconazol *	107534-96-3	U		0.398 (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.

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

* results are not recovery corrected.

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_WG59357-101_Form1A_ON7B_107S8_SJ2213478.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

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.: 4114

Matrix: AQUEOUS

Sample Receipt Date: N/A

Extraction Date: 04-May-2017

Analysis Date: 17-May-2017 Time: 12:21:11

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng absolute

Project No.

N/A

Lab Sample I.D.:

WG59357-101

Sample Size:

1.00 L

Initial Calibration Date:

BRACKETING CAL

Instrument ID:

HR GC/MS

GC Column ID:

DB17-MS

Sample Data Filename:

ON7B_107 S: 8

Blank Data Filename:

ON7B_107 S: 8

Opening Cal. Data Filename:

ON7B_107 S: 3

Closing Cal. Data Filename:

ON7B_107 S: 16

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
13C-Alachlor		32.0	30.5	95.2	1.73	0.980
13C-Metolachlor		32.0	34.3	107	10.1	1.019
D6-Linuron		132	145	110	1.53	1.026

(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: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_WG59357-101_Form2_ON7B_107S8_SJ2213478.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

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.: 4114

OPR Data Filename:

MR7B_106 S: 12

Matrix: AQUEOUS

Lab Sample I.D.:

WG59357-102

Extraction Date: 04-May-2017

Analysis Date:

15-May-2017 Time: 18:09:37

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

COMPOUND	CAS NO.	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
Tecnazene	117-18-0		0.78	160	206	79.9 - 240	129
Hexachlorobenzene	118-74-1		1.25	128	122	64.0 - 192	95.2
Quintozone	82-68-8		1.51	319	405	95.8 - 639	127
Heptachlor	76-44-8		1.23	129	121	64.4 - 193	94.1
HCH, alpha	319-84-6		2.09	260	200	130 - 390	76.9
HCH, gamma	58-89-9		2.10	262	236	131 - 393	89.9
HCH, beta	319-85-7		2.08	258	243	129 - 386	94.2
HCH, delta	319-86-8		2.15	258	248	129 - 387	96.0
Chlorothalonil *	1897-45-6		0.82	133	62.7	13.3 - 266	47.1
Aldrin	309-00-2		1.47	258	238	129 - 387	92.3
Dacthal *	1861-32-1		0.84	79.3	47.5	31.7 - 119	59.9
Octachlorostyrene	29082-74-4		0.67	131	126	65.4 - 196	96.3
Chlordane, oxy-	27304-13-8		1.58	255	231	128 - 383	90.4
Heptachlor Epoxide	1024-57-3		1.56	129	123	64.7 - 194	94.9
Chlordane, gamma (trans)	5103-74-2		1.56	257	254	129 - 386	98.6
Chlordane, alpha (cis)	5103-71-9		1.62	260	278	130 - 390	107
Nonachlor, trans-	39765-80-5		1.54	261	248	131 - 392	95.0
Nonachlor, cis-	5103-73-1		1.59	257	241	129 - 386	93.8
alpha-Endosulphan	959-98-8		1.56	130	110	64.9 - 195	85.1
beta-Endosulphan	33213-65-9		0.65	128	118	64.1 - 192	92.0
Dieldrin	60-57-1		1.52	129	115	64.3 - 193	89.1
2,4'-DDD	53-19-0	MAX	1.54	129	116	64.3 - 193	90.3
4,4'-DDD	72-54-8	MAX	1.51	130	130	64.9 - 195	100
2,4'-DDE	3424-82-6	MAX	1.55	129	109	64.5 - 194	84.4
4,4'-DDE	72-55-9	MAX	1.56	129	122	64.5 - 194	94.5
2,4'-DDT	789-02-6		1.49	130	115	64.9 - 195	88.8
4,4'-DDT	50-29-3		1.56	130	127	65.1 - 195	97.8
Captan *	133-06-2		1.51	800	354	80.0 - 1200	44.2
Perthane *	72-56-0		0.19	127	126	63.7 - 191	98.9
Endrin	72-20-8		1.42	129	117	64.6 - 194	90.5
Endosulphan Sulphate	1031-07-8		0.72	128	110	64.0 - 192	86.3
Mirex	2385-85-5		1.62	129	118	64.3 - 193	91.8
Methoxychlor	72-43-5		5.76	129	123	64.5 - 193	95.1
Endrin Ketone	53494-70-5		0.75	129	89.9	25.8 - 194	69.6
Desethylatrazine	6190-65-4		3.24	133	99.7	26.5 - 199	75.2

COMPOUND	CAS NO.	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
Simazine	122-34-9		3.17	266	256	133 - 399	96.4
Atrazine	1912-24-9		2.51	267	242	133 - 400	90.7
Ametryn *	834-12-8		8.52	266	102	53.2 - 532	38.3
Metribuzin *	21087-64-9		4.71	66.6	40.8	13.3 - 133	61.3
Cyanazine *	21725-46-2		3.77	267	194	26.7 - 401	72.6
Hexazinone *	51235-04-2		12.3	338	173	101 - 676	51.2
Phorate *	298-02-2	NQ					
Terbufos *	13071-79-9	NQ					
Diazinon-Oxon	962-58-3		6.10	478	389	47.8 - 1430	81.4
Diazinon	333-41-5		1.69	267	251	133 - 400	94.2
Disulfoton *	298-04-4	U H		1320	0	-	
Fonofos	944-22-9		7.77	160	142	79.8 - 239	88.9
Dimethoate *	60-51-5			1580	919	790 - 3950	58.2
Chlorpyrifos-Methyl *	5598-13-0		1.44	800	493	240 - 1200	61.6
Parathion-Methyl *	298-00-0		9.97	962	746	481 - 1440	77.6
Pirimiphos-Methyl *	29232-93-7		1.16	318	198	159 - 478	62.3
Chlorpyrifos *	2921-88-2		1.45	320	219	96.0 - 480	68.4
Fenitrothion *	122-14-5		0.97	320	284	96.0 - 480	88.8
Malathion *	121-75-5		1.78	908	592	454 - 1360	65.1
Parathion-Ethyl *	56-38-2		5.99	320	255	160 - 480	79.5
Chlorpyrifos-Oxon *	5598-15-2		1.70	323	180	32.3 - 484	55.7
Disulfoton Sulfone *	2497-06-5	H	14.0	20.6	220	-	1070
Ethion *	563-12-2			64.0	44.9	12.8 - 128	70.2
Phosmet *	732-11-6		3.77	802	656	80.2 - 1600	81.8
Azinphos-Methyl	86-50-0		8.24	400	379	200 - 601	94.7
Permethrin	52645-53-1			287	269	143 - 430	93.8
Cypermethrin	52315-07-8			653	700	326 - 979	107

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; H = concentration is estimated; MAX = concentration is an estimated maximum value; NQ = data not quantifiable.

* results are not recovery corrected.

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

Signed: _____Ting Chen_____

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

For Axys Internal Use Only [XSL Template: Pest8A.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11; Report Filename: MRES_MRES_MRCPT17_WG59357-102_Form8A_SJ2211832.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

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.: 4114

OPR Data Filename:

MR7B_106 S: 12

Matrix: AQUEOUS

Lab Sample I.D.:

WG59357-102

Extraction Date: 04-May-2017

Analysis Date:

15-May-2017 Time: 18:09:37

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
13C-Hexachlorobenzene	93952-14-8		1.29	360	211	72.0-720	58.6
13C-Heptachlor			1.22	320	220	96.0-640	68.7
13C-gamma-HCH	104215-85-2		0.83	320	255	96.0-640	79.7
13C-beta-HCH	222966-68-9		0.79	322	289	96.6-644	89.7
13C-delta-HCH			0.81	320	298	96.0-640	93.2
13C-Aldrin			1.68	320	210	96.0-640	65.6
13C-Chlordane, oxy			1.55	320	291	96.0-640	90.8
13C-Heptachlor-Epoxide			1.51	320	268	96.0-640	83.7
13C-Chlordane, gamma (trans)			1.70	320	279	96.0-640	87.2
13C-Nonachlor, trans-			1.66	320	302	96.0-640	94.3
13C-Nonachlor, cis-			1.66	320	332	96.0-640	104
13C-alpha-Endosulphan			1.73	320	304	96.0-640	94.9
13C-beta-Endosulphan			1.62	320	328	96.0-640	102
13C-Dieldrin			1.66	320	310	96.0-640	96.7
13C-4,4'-DDE	201612-50-2		1.55	320	309	96.0-640	96.6
13C-2,4'-DDT			1.58	320	322	96.0-640	101
13C-4,4'-DDT	104215-84-1		1.44	324	286	97.2-648	88.2
13C-Endrin			1.59	320	311	96.0-640	97.0
13C-Mirex			1.59	320	273	96.0-640	85.3
13C-Methoxychlor			17.8	320	263	32.0-800	82.2
13C-Atrazine			3.10	320	251	96.0-640	78.5
D10-Diazinon			1.60	320	246	96.0-640	76.9
13C-Fonofos			13.5	320	176	96.0-640	55.1
D6-Azinphos-Methyl			8.23	320	344	160-960	108
13C-Permethrin, cis-			5.96	160	157	48.0-400	98.0
13C-Permethrin, trans-			5.97	160	153	48.0-400	95.4

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

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

Signed: _____Ting Chen_____

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

For Axys Internal Use Only [XSL Template: Pest8B.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRCPT17_WG59357-102_Form8B_SJ2211832.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

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.: 4114

OPR Data Filename: ON7B_107 S: 5

Matrix: AQUEOUS

Lab Sample I.D.: WG59357-102

Extraction Date: 04-May-2017

Analysis Date: 17-May-2017 Time: 10:44:57

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
Butylate *	2008-41-5		2.02	129	79.6	25.7 - 193	62.0
Ethalfuralin *	55283-68-6		0.61	1440	953	432 - 2160	66.2
Trifluralin *	1582-09-8		1.64	126	103	50.5 - 190	81.7
Triallate *	2303-17-5		1.45	128	107	25.7 - 193	83.5
Dimethenamid *	87674-68-8		2.81	129	111	51.5 - 193	86.4
Alachlor	15972-60-8		1.64	319	329	160 - 479	103
Methoprene *	40596-69-8		6.26	641	568	320 - 961	88.7
Butralin *	33629-47-9		6.24	260	204	104 - 389	78.7
Flufenacet *	142459-58-3		3.60	206	205	61.7 - 308	99.9
Metolachlor	51218-45-2		8.02	64.2	62.8	32.1 - 96.3	97.8
Linuron	330-55-2		1.54	515	588	257 - 772	114
Pendimethalin *	40487-42-1		7.24	961	837	288 - 1440	87.1
Flutriafol *	76674-21-0		7.08	1290	499	258 - 1930	38.8
Tebuconazol *	107534-96-3		3.19	643	304	129 - 1290	47.3

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

* results are not recovery corrected.

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

Signed: _____Ting Chen_____

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

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Report Filename: MRES_MRES_MRN17_WG59357-102_Form8A_SJ2213475.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

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.: 4114

OPR Data Filename: ON7B_107 S: 5

Matrix: AQUEOUS

Lab Sample I.D.: WG59357-102

Extraction Date: 04-May-2017

Analysis Date: 17-May-2017 Time: 10:44:57

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

LABELED COMPOUND	CAS NO.	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
13C-Alachlor			1.69	320	299	96.0-640	93.5
13C-Metolachlor			9.84	320	331	96.0-640	103
D6-Linuron			1.42	1320	1120	264-2640	85.2

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

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

Signed: _____Ting Chen_____

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

For Axys Internal Use Only [XSL Template: Pest8B.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: MRES_MRES_MRN17_WG59357-102_Form8B_SJ2213475.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 4C

BRACKETING 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: BRACKETING CAL

Instrument ID:	HR GC/MS	GC Column ID:	DB17-MS
OPENING CAL Data Filename:	MR7B_106 S: 10	Analysis Date:	15-May-2017 Time: 16:23:22
CLOSING CAL Data Filename:	MR7B_106 S: 21	Analysis Date:	16-May-2017 Time: 02:00:08

COMPOUND	CAS NO.	LAB FLAG ¹	RELATIVE RESPONSE (RR)		MEAN RR	RPD ²
			OPENING CAL	CLOSING CAL		
Tecnazene	117-18-0		0.0655	0.0565	0.0610	14.8
Hexachlorobenzene	118-74-1		1.11	1.11	1.11	0.0180
Quintozone	82-68-8		0.0653	0.0558	0.0606	15.7
Heptachlor	76-44-8		1.19	1.16	1.17	2.07
HCH, alpha	319-84-6		0.951	0.931	0.941	2.09
HCH, gamma	58-89-9		0.844	0.857	0.850	1.42
HCH, beta	319-85-7		0.981	0.982	0.981	0.0204
HCH, delta	319-86-8		1.02	1.03	1.02	0.976
Chlorothalonil	1897-45-6		0.903	0.931	0.917	3.04
Aldrin	309-00-2		1.04	1.05	1.04	1.15
Dacthal	1861-32-1		0.922	0.634	0.778	37.1
Octachlorostyrene	29082-74-4		0.575	0.486	0.531	16.8
Chlordane, oxy-	27304-13-8		1.03	1.05	1.04	1.98
Heptachlor Epoxide	1024-57-3		1.21	1.27	1.24	4.64
Chlordane, gamma (trans)	5103-74-2		1.04	1.08	1.06	3.16
Chlordane, alpha (cis)	5103-71-9		1.03	1.03	1.03	0.825
Nonachlor, trans-	39765-80-5		0.962	1.02	0.992	5.93
Nonachlor, cis-	5103-73-1		1.15	1.13	1.14	1.78
alpha-Endosulphan	959-98-8		1.08	1.14	1.11	6.23
beta-Endosulphan	33213-65-9		1.36	1.35	1.36	0.730
Dieldrin	60-57-1		1.04	1.03	1.04	0.454
2,4'-DDD	53-19-0		1.86	1.97	1.92	5.51
4,4'-DDD	72-54-8		1.83	1.96	1.90	7.28
2,4'-DDE	3424-82-6		1.74	1.57	1.66	9.81
4,4'-DDE	72-55-9		1.11	1.14	1.13	2.82
2,4'-DDT	789-02-6		1.10	1.12	1.11	1.84
4,4'-DDT	50-29-3		1.02	1.06	1.04	3.21
Captan	133-06-2		0.0208	0.0184	0.0196	12.2
Perthane	72-56-0		0.319	0.203	0.261	44.3
Endrin	72-20-8		1.15	1.11	1.13	3.26
Endosulphan Sulphate	1031-07-8		1.47	1.38	1.42	6.82
Mirex	2385-85-5		1.14	1.16	1.15	1.67
Methoxychlor	72-43-5		1.22	1.32	1.27	8.26
Endrin Ketone	53494-70-5		0.493	0.318	0.405	43.2
Desethylatrazine	6190-65-4		2.41	2.37	2.39	1.33
Simazine	122-34-9		1.43	1.48	1.46	3.35
Atrazine	1912-24-9		1.10	1.11	1.11	1.11
Ametryn	834-12-8		0.636	0.435	0.535	37.6
Metribuzin	21087-64-9		0.277	0.215	0.246	25.4

COMPOUND	CAS NO.	LAB FLAG ¹	RELATIVE RESPONSE (RR)		MEAN RR	RPD ²
			OPENING CAL	CLOSING CAL		
Cyanazine	21725-46-2		0.0548	0.0342	0.0445	46.3
Hexazinone	51235-04-2		1.82	0.955	1.39	62.3
Phorate	298-02-2		0.0447	0.0449	0.0448	0.446
Terbufos	13071-79-9		0.0223	0.0197	0.0210	12.4
Diazinon-Oxon	962-58-3		2.61	2.61	2.61	0.0996
Diazinon	333-41-5		1.62	1.59	1.60	2.13
Disulfoton	298-04-4		0.0159	0.0152	0.0156	4.50
Fonofos	944-22-9		1.17	1.19	1.18	1.64
Dimethoate	60-51-5		0.0154	0.0158	0.0156	2.56
Chlorpyrifos-Methyl	5598-13-0		0.356	0.308	0.332	14.6
Parathion-Methyl	298-00-0		0.0730	0.0628	0.0679	15.0
Pirimiphos-Methyl	29232-93-7		0.263	0.181	0.222	36.9
Chlorpyrifos	2921-88-2		0.407	0.236	0.321	53.4
Fenitrothion	122-14-5		0.105	0.0825	0.0940	24.4
Malathion	121-75-5		0.0800	0.0492	0.0646	47.7
Parathion-Ethyl	56-38-2		0.0728	0.0555	0.0642	27.0
Chlorpyrifos-Oxon	5598-15-2		0.0894	0.0595	0.0745	40.2
Disulfoton Sulfone	2497-06-5		0.324	0.201	0.263	46.9
Ethion	563-12-2		0.0718	0.0346	0.0532	69.9
Phosmet	732-11-6		0.991	0.576	0.784	52.9
Azinphos-Methyl	86-50-0		1.47	1.45	1.46	1.36
Permethrin, cis-	61949-76-6		1.20	1.20	1.20	0.175
Permethrin, trans-	61949-77-7		1.22	1.22	1.22	0.147
Cypermethrin-A			0.277	0.374	0.325	29.7
Cypermethrin-B			0.267	0.355	0.311	28.4
Cypermethrin-C			0.292	0.386	0.339	27.8

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

(2) QC limits are < 56% RPD. Method specifications for RPD are only required for detected analytes.

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

Signed: Angela Schlak

For Axy Internal Use Only [XSL Template: Pest4C.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: GENERIC-SPECS_MRES_GS70192__Form4C_GS70192.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 4D

BRACKETING 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: BRACKETING CAL

Instrument ID:	HR GC/MS	GC Column ID:	DB17-MS
OPENING CAL Data Filename:	MR7B_106 S: 10	Analysis Date:	15-May-2017 Time: 16:23:22
CLOSING CAL Data Filename:	MR7B_106 S: 21	Analysis Date:	16-May-2017 Time: 02:00:08

COMPOUND	CAS NO.	LAB FLAG ¹	RELATIVE RESPONSE (RR)		MEAN RR	RPD ²
			OPENING CAL	CLOSING CAL		
13C-Hexachlorobenzene	93952-14-8		2.55	2.95	2.75	14.7
13C-Heptachlor			0.253	0.246	0.250	2.80
13C-gamma-HCH	104215-85-2		0.685	0.757	0.721	9.97
13C-beta-HCH	222966-68-9		0.577	0.647	0.612	11.5
13C-delta-HCH			0.576	0.605	0.590	4.86
13C-Aldrin			0.494	0.507	0.500	2.50
13C-Chlordane, oxy			0.152	0.131	0.141	14.7
13C-Heptachlor-Epoxide			0.168	0.131	0.149	24.7
13C-Chlordane, gamma (trans)			0.162	0.136	0.149	16.9
13C-Nonachlor, trans-			0.169	0.149	0.159	12.9
13C-Nonachlor, cis-			0.130	0.115	0.123	12.7
13C-alpha-Endosulphan			0.106	0.0776	0.0920	31.2
13C-beta-Endosulphan			0.0547	0.0386	0.0467	34.5
13C-Dieldrin			0.295	0.263	0.279	11.2
13C-4,4'-DDE	201612-50-2		2.17	1.94	2.05	11.0
13C-2,4'-DDT			1.10	0.793	0.945	32.1
13C-4,4'-DDT	104215-84-1		1.19	0.679	0.935	54.8
13C-Endrin			0.131	0.101	0.116	26.3
13C-Mirex			0.470	0.273	0.371	52.9
13C-Methoxychlor			0.572	0.210	0.391	92.7
13C-Atrazine			0.357	0.362	0.360	1.61
D10-Diazinon			0.0369	0.0329	0.0349	11.5
13C-Fonofos			0.281	0.291	0.286	3.32
D6-Azinphos-Methyl			0.0828	0.0575	0.0702	36.1
13C-Permethrin, cis-			1.57	0.626	1.10	85.8
13C-Permethrin, trans-			1.29	0.517	0.904	85.7

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

(2) QC limits are < 56% RPD. Method specifications for RPD are only required for detected analytes.

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

Signed: _____ Angela Schlak _____

For Axy Internal Use Only [XSL Template: Pest4D.xsl; Created: 09-Aug-2017 08:33:35; Application: XMLTransformer-1.16.11;
Report Filename: GENERIC-SPECS_MRES_GS70192__Form4D_GS70192.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 4C

BRACKETING 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: BRACKETING CAL

Instrument ID:	HR GC/MS	GC Column ID:	DB17-MS
OPENING CAL Data Filename:	ON7B_107 S: 3	Analysis Date:	17-May-2017 Time: 09:40:48
CLOSING CAL Data Filename:	ON7B_107 S: 16	Analysis Date:	17-May-2017 Time: 16:37:53

COMPOUND	CAS NO.	LAB FLAG ¹	RELATIVE RESPONSE (RR)		MEAN RR	RPD ²
			OPENING CAL	CLOSING CAL		
Butylate	2008-41-5		1.20	1.28	1.24	6.43
Ethalfuralin	55283-68-6		0.0504	0.0602	0.0553	17.7
Trifluralin	1582-09-8		0.266	0.307	0.286	14.3
Triallate	2303-17-5		0.623	0.756	0.689	19.3
Dimethenamid	87674-68-8		0.207	0.243	0.225	15.9
Alachlor	15972-60-8		0.969	0.966	0.968	0.310
Methoprene	40596-69-8		0.0622	0.0849	0.0736	30.9
Butralin	33629-47-9		0.0191	0.0201	0.0196	5.10
Flufenacet	142459-58-3		0.512	0.587	0.549	13.6
Metolachlor	51218-45-2		1.13	1.12	1.13	0.693
Linuron	330-55-2		0.891	0.950	0.920	6.40
Pendimethalin	40487-42-1		0.251	0.291	0.271	14.5
Flutriafof	76674-21-0		0.225	0.252	0.239	11.0
Tebuconazol	107534-96-3		0.255	0.311	0.283	19.7

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

(2) QC limits are < 56% RPD. Method specifications for RPD are only required for detected analytes.

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

Signed: _____ Angela Schlak _____

For Axy Internal Use Only [XSL Template: Pest4C.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: GENERIC-SPECS_MRES_GS70243__Form4C_GS70243.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 4D

BRACKETING 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: BRACKETING CAL

Instrument ID:	HR GC/MS	GC Column ID:	DB17-MS
OPENING CAL Data Filename:	ON7B_107 S: 3	Analysis Date:	17-May-2017 Time: 09:40:48
CLOSING CAL Data Filename:	ON7B_107 S: 16	Analysis Date:	17-May-2017 Time: 16:37:53

COMPOUND	CAS NO.	LAB FLAG ¹	RELATIVE RESPONSE (RR)		MEAN RR	RPD ²
			OPENING CAL	CLOSING CAL		
13C-Alachlor			0.470	0.558	0.514	17.2
13C-Metolachlor			1.79	2.03	1.91	12.7
D6-Linuron			0.0437	0.0488	0.0463	11.0

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

(2) QC limits are < 56% RPD. Method specifications for RPD are only required for detected analytes.

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

Signed: _____ Angela Schlak _____

For Axy Internal Use Only [XSL Template: Pest4D.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: GENERIC-SPECS_MRES_GS70243__Form4D_GS70243.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 4C

BRACKETING 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: BRACKETING CAL

Instrument ID:	HR GC/MS	GC Column ID:	DB17-MS
OPENING CAL Data Filename:	ON7B_123 S: 4	Analysis Date:	01-Jun-2017 Time: 00:03:41
CLOSING CAL Data Filename:	ON7B_123 S: 10	Analysis Date:	01-Jun-2017 Time: 03:17:30

COMPOUND	CAS NO.	LAB FLAG ¹	RELATIVE RESPONSE (RR)		MEAN RR	RPD ²
			OPENING CAL	CLOSING CAL		
Butylate	2008-41-5		0.598	0.661	0.630	10.1
Ethalfuralin	55283-68-6		0.0561	0.0615	0.0588	9.18
Trifluralin	1582-09-8		0.229	0.251	0.240	9.19
Triallate	2303-17-5		0.517	0.541	0.529	4.56
Dimethenamid	87674-68-8		0.369	0.374	0.371	1.35
Alachlor	15972-60-8		0.910	0.915	0.913	0.526
Methoprene	40596-69-8		0.0786	0.0850	0.0818	7.82
Butralin	33629-47-9		0.0362	0.0347	0.0355	4.23
Flufenacet	142459-58-3		0.319	0.314	0.317	1.64
Metolachlor	51218-45-2		1.09	1.08	1.08	0.878
Linuron	330-55-2		0.940	0.900	0.920	4.28
Pendimethalin	40487-42-1		0.275	0.270	0.272	1.95
Flutriafof	76674-21-0		0.222	0.232	0.227	4.32
Tebuconazol	107534-96-3		0.272	0.286	0.279	4.98

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

(2) QC limits are < 56% RPD. Method specifications for RPD are only required for detected analytes.

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

Signed: _____ Angela Schlak _____

For Axy Internal Use Only [XSL Template: Pest4C.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: GENERIC-SPECS_MRES_GS70365__Form4C_GS70365.html; Workgroup: WG59357; Design ID: 3093]

AXYS METHOD MLA-035 Rev 07

Form 4D

BRACKETING 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: BRACKETING CAL

Instrument ID:	HR GC/MS	GC Column ID:	DB17-MS
OPENING CAL Data Filename:	ON7B_123 S: 4	Analysis Date:	01-Jun-2017 Time: 00:03:41
CLOSING CAL Data Filename:	ON7B_123 S: 10	Analysis Date:	01-Jun-2017 Time: 03:17:30

COMPOUND	CAS NO.	LAB FLAG ¹	RELATIVE RESPONSE (RR)		MEAN RR	RPD ²
			OPENING CAL	CLOSING CAL		
13C-Alachlor			0.478	0.502	0.490	4.86
13C-Metolachlor			1.38	1.44	1.41	4.16
D6-Linuron			0.0284	0.0206	0.0245	31.8

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

(2) QC limits are < 56% RPD. Method specifications for RPD are only required for detected analytes.

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

Signed: _____ Angela Schlak _____

For Axys Internal Use Only [XSL Template: Pest4D.xsl; Created: 09-Aug-2017 08:34:10; Application: XMLTransformer-1.16.11;
Report Filename: GENERIC-SPECS_MRES_GS70365__Form4D_GS70365.html; Workgroup: WG59357; Design ID: 3093]

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

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	PCB 175 2,2',3,3',4,5',6-Heptachlorobiphenyl	EPA 1668	MLA-010					Y		Y	Y	Y	Y	Y	Y	YD			YD				Y	Y	Y	YD	Y	
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	PCB 176 2,2',3,3',4,6,6'-Heptachlorobiphenyl	EPA 1668	MLA-010					Y		Y	Y	Y	Y	Y	Y	YD			YD				Y	Y	Y	YD	Y	
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	PCB 18 2,2',5-Trichlorobiphenyl	EPA 1668	MLA-010					Y		Y	Y	Y	Y	Y	Y	YD			YD				Y	Y	Y	YD	Y	
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		SGS AXYS MLA-007	MLA-007			Y											Y											
	PCB 180 2,2',3,4,4',5,5'-Heptachlorobiphenyl	EPA 1668	MLA-010					Y		Y	Y	Y	Y	Y	Y	YD			YD				Y	Y	Y	YD	Y	
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		SGS AXYS MLA-901	MLA-901		Y																							
	PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl	EPA 1668	MLA-010					Y		Y	Y	Y	Y	Y	Y	YD			YD				Y	Y	Y	YD	Y	
		SGS AXYS MLA-010	MLA-010		Y	Y	Y									YD	Y		YD		Y					YD		
	PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl	EPA 1668	MLA-010					Y		Y	Y	Y	Y	Y	Y	YD			YD				Y	Y	Y	YD	Y	
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	PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl	EPA 1668	MLA-010					Y		Y	Y	Y	Y	Y	Y	YD			YD				Y	Y	Y	YD	Y	
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Accreditation Scope															
SGS AXYS Analytical Services Ltd. (formerly AXYS Analytical Services Ltd.) file ref.: ACC-101 Rev. 34				Pulp	Serum										
				CALA	CALA										
				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB	Tissue
				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB	Urine
				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB	Water
				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB	Water, Non-Potable
Compound Class	Compound	Accredited Method ID	SGS AXYS Metho	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB	
	Hydroxyhexadecadienylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxyhexadecanoylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxyhexadecenoylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxylbutyrylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxyoctadecenoylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxyproline	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxypropionylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxysphingomyeline C14:1	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxysphingomyeline C16:1	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxysphingomyeline C22:1	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxysphingomyeline C22:2	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxysphingomyeline C24:1	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxytetradecadienylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxytetradecenoylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	Hydroxyvaleryl carnitine (Methylmalonylcarnitine)	SGS AXYS MLM-001	MLM-001		Y										
	Isoleucine	SGS AXYS MLM-001	MLM-001		Y										
	Kynurenine	SGS AXYS MLM-001	MLM-001		Y										
	Leucine	SGS AXYS MLM-001	MLM-001		Y										
	lithocholic acid	SGS AXYS MLM-001	MLM-001		Y										
	Lysine	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C14:0	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C16:0	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C16:1	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C17:0	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C18:0	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C18:1	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C18:2	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C20:3	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C20:4	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C24:0	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C26:1	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C28:0	SGS AXYS MLM-001	MLM-001		Y										
	lysoPhosphatidylcholine acyl C28:1	SGS AXYS MLM-001	MLM-001		Y										
	Methionine	SGS AXYS MLM-001	MLM-001		Y										
	Methioninesulfoxide	SGS AXYS MLM-001	MLM-001		Y										
	Methylglutaryl carnitine	SGS AXYS MLM-001	MLM-001		Y										
	Nitrotyrosine	SGS AXYS MLM-001	MLM-001		Y										
	Nonacylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	octadecadienoic acid (linoleic acid)	SGS AXYS MLM-001	MLM-001												
	Octadecadienylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	octadecanoic acid (stearic acid)	SGS AXYS MLM-001	MLM-001												
	Octadecanoylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	octadecatrienoic acid (γ-linolenic acid)	SGS AXYS MLM-001	MLM-001												
	Octadecenoylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	Octanoylcarnitine	SGS AXYS MLM-001	MLM-001		Y										
	Ornithine	SGS AXYS MLM-001	MLM-001		Y										
	Phenylalanine	SGS AXYS MLM-001	MLM-001		Y										
	Phenylethylamine	SGS AXYS MLM-001	MLM-001		Y										
	Phosphatidylcholine acyl-alkyl C30:0	SGS AXYS MLM-001	MLM-001		Y										
	Phosphatidylcholine acyl-alkyl C30:1	SGS AXYS MLM-001	MLM-001		Y										
	Phosphatidylcholine acyl-alkyl C30:2	SGS AXYS MLM-001	MLM-001		Y										
	Phosphatidylcholine acyl-alkyl C32:1	SGS AXYS MLM-001	MLM-001		Y										
	Phosphatidylcholine acyl-alkyl C32:2	SGS AXYS MLM-001	MLM-001		Y										
	Phosphatidylcholine acyl-alkyl C34:0	SGS AXYS MLM-001	MLM-001		Y										
	Phosphatidylcholine acyl-alkyl C34:1	SGS AXYS MLM-001	MLM-001		Y										
	Phosphatidylcholine acyl-alkyl C34:2	SGS AXYS MLM-001	MLM-001		Y										
	Phosphatidylcholine acyl-alkyl C34:3	SGS AXYS MLM-001	MLM-001		Y										

SGS AXYS

Legend

Y	Accreditation scope
YD	Accreditation scope, including DoD scope
BFR	Brominated flame retardants (non-PBDPE)
BPA and mPE	Bisphenol A and mono-Phthalate Esters
FTS	Fluorotelomer sulfonates
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
PFC	Perfluorinated Compounds
PPCP	Pharmaceutical and Personal Care Products
TBBPA	Tetrabromobisphenol A
California DPH	California Department of Public Health, Lab ID 2911 (target analytes shown are those approved 2014)
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

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



ANAB
ANSI-ASQ National Accreditation Board, certificate ADE-1861,
(ISO/IEC 17025:2005 and US DOD Standards)

