Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R2-RR-tissue
Sample Collection:
23-Jun-2008 14:40

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-33
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 01:30:43	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg absolute	**% Moisture:**	82.2
		% Lipid:	0.042

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	850	42.5	0.80	1.015
13C-1,2,3,7,8-PECDD [4]		2000	875	43.7	0.63	1.385
13C-1,2,3,4,7,8-HXCDD		2000	946	47.3	1.28	0.986
13C-1,2,3,6,7,8-HXCDD		2000	1100	55.0	1.23	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	995	49.7	1.04	1.094
13C-OCDD		4000	1810	45.3	0.89	1.178
13C-2,3,7,8-TCDF		2000	839	41.9	0.77	0.968
13C-1,2,3,7,8-PECDF		2000	819	41.0	1.57	1.288
13C-2,3,4,7,8-PECDF		2000	776	38.8	1.58	1.356
13C-1,2,3,4,7,8-HXCDF		2000	957	47.8	0.52	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1030	51.6	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	998	49.9	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	929	46.5	0.54	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	937	46.8	0.44	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	935	46.7	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	144	72.2		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-33_Form2_DX82_244S7_SJ881185.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R2-RR-tissue
Sample Collection:
23-Jun-2008 14:40

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-33
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 03:50:54	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_137 S: 15**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_137 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	82.2 0.042

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	U		0.0675		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-33_Form1A_DB83_137S15_SJ881707.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R2-RR-tissue

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

		Sample Collection:	23-Jun-2008 14:40
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-33
Sample Size:	25.1 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_137 S: 15** **DX82_244 S: 7**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0199	1	0.00e+00	9.95e-03	
1,2,3,7,8-PECDD	U		0.0518	1	0.00e+00	2.59e-02	
1,2,3,4,7,8-HXCDD	U		0.0797	0.1	0.00e+00	3.99e-03	
1,2,3,6,7,8-HXCDD		0.112	0.0797	0.1	1.12e-02	1.12e-02	
1,2,3,7,8,9-HXCDD	U		0.0797	0.1	0.00e+00	3.99e-03	
1,2,3,4,6,7,8-HPCDD		0.282	0.0446	0.01	2.82e-03	2.82e-03	
OCDD		0.338	0.134	0.0003	1.01e-04	1.01e-04	
2,3,7,8-TCDF	U		0.0675	0.1	0.00e+00	3.38e-03	
1,2,3,7,8-PECDF	U		0.0406	0.03	0.00e+00	6.09e-04	
2,3,4,7,8-PECDF	U		0.0406	0.3	0.00e+00	6.09e-03	
1,2,3,4,7,8-HXCDF	U		0.0371	0.1	0.00e+00	1.86e-03	
1,2,3,6,7,8-HXCDF	U		0.0371	0.1	0.00e+00	1.86e-03	
1,2,3,7,8,9-HXCDF	U		0.0371	0.1	0.00e+00	1.86e-03	
2,3,4,6,7,8-HXCDF	U		0.0371	0.1	0.00e+00	1.86e-03	
1,2,3,4,6,7,8-HPCDF	U		0.0510	0.01	0.00e+00	2.55e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0510	0.01	0.00e+00	2.55e-04	
OCDF	U		0.0394	0.0003	0.00e+00	5.91e-06	
			TOTAL TEQ		0.0141	0.0760	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-33_TEQ_SJ881707.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A1R2-manila
Sample Collection:
17-Jun-2008 11:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-34
Matrix:	TISSUE	**Sample Size:**	25.4 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 16:12:17	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	85.9
		% Lipid:	0.97

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.027	0.0196	0.42	1.001
1,2,3,7,8-PECDD [3]	U		0.0511		
1,2,3,4,7,8-HXCDD	U		0.0786		
1,2,3,6,7,8-HXCDD	J	0.136	0.0786	1.36	1.000
1,2,3,7,8,9-HXCDD	U		0.0786		
1,2,3,4,6,7,8-HPCDD		1.01	0.0440	1.05	1.000
OCDD		4.69	0.132	0.89	1.000
2,3,7,8-TCDF	K J	0.107	0.0196	0.96	1.001
1,2,3,7,8-PECDF	U		0.0401		
2,3,4,7,8-PECDF	U		0.0401		
1,2,3,4,7,8-HXCDF	U		0.0365		
1,2,3,6,7,8-HXCDF	U		0.0365		
1,2,3,7,8,9-HXCDF	U		0.0365		
2,3,4,6,7,8-HXCDF	U		0.0365		
1,2,3,4,6,7,8-HPCDF	K J	0.157	0.0503	1.22	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0503		
OCDF	J	0.246	0.0389	0.93	1.002
TOTAL TETRA-DIOXINS		0.104	0.0196		
TOTAL PENTA-DIOXINS		0.072	0.0511		
TOTAL HEXA-DIOXINS		0.660	0.0786		
TOTAL HEPTA-DIOXINS		2.33	0.0440		
TOTAL TETRA-FURANS		0.288	0.0196		
TOTAL PENTA-FURANS		0.138	0.0401		
TOTAL HEXA-FURANS		0.134	0.0365		
TOTAL HEPTA-FURANS		0.141	0.0503		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-34_Form1A_DX82_245S10_SJ881209.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A1R2-manila
Sample Collection:
17-Jun-2008 11:00

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-34
Matrix:	TISSUE	**Sample Size:**	25.4 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 16:12:17	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg absolute	**% Moisture:**	85.9
		% Lipid:	0.97

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	1400	70.1	0.80	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1640	82.0	0.64	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1580	79.1	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1610	80.4	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1440	71.9	1.04	1.094
13C-OCDD		4000	2600	64.9	0.89	1.178
13C-2,3,7,8-TCDF		2000	1450	72.3	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	1440	72.0	1.57	1.288
13C-2,3,4,7,8-PECDF		2000	1460	72.9	1.57	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1540	77.0	0.55	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1610	80.4	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1590	79.4	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1530	76.5	0.53	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1560	77.8	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1500	75.0	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	159	79.5		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-34_Form2_DX82_245S10_SJ881209.html; Workgroup: WG25730; Design ID: 883]

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.

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A1R2-manila
Sample Collection:
17-Jun-2008 11:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-34
Matrix:	TISSUE	**Sample Size:**	25.4 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 15:43:09	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_138 S: 15**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_138 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	85.9 0.97

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.100	0.0472	0.74	1.000

(1) Where applicable, custom lab flags have been used on this report; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-34_Form1A_DB83_138S15_SJ881725.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A1R2-manila

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

		Sample Collection:	17-Jun-2008 11:00
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-34
Sample Size:	25.4 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_138 S: 15** **DX82_245 S: 10**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0196	1	0.00e+00	9.80e-03	
1,2,3,7,8-PECDD	U		0.0511	1	0.00e+00	2.56e-02	
1,2,3,4,7,8-HXCDD	U		0.0786	0.1	0.00e+00	3.93e-03	
1,2,3,6,7,8-HXCDD		0.136	0.0786	0.1	1.36e-02	1.36e-02	
1,2,3,7,8,9-HXCDD	U		0.0786	0.1	0.00e+00	3.93e-03	
1,2,3,4,6,7,8-HPCDD		1.01	0.0440	0.01	1.01e-02	1.01e-02	
OCDD		4.69	0.132	0.0003	1.41e-03	1.41e-03	
2,3,7,8-TCDF		0.100	0.0472	0.1	1.00e-02	1.00e-02	
1,2,3,7,8-PECDF	U		0.0401	0.03	0.00e+00	6.02e-04	
2,3,4,7,8-PECDF	U		0.0401	0.3	0.00e+00	6.02e-03	
1,2,3,4,7,8-HXCDF	U		0.0365	0.1	0.00e+00	1.83e-03	
1,2,3,6,7,8-HXCDF	U		0.0365	0.1	0.00e+00	1.83e-03	
1,2,3,7,8,9-HXCDF	U		0.0365	0.1	0.00e+00	1.83e-03	
2,3,4,6,7,8-HXCDF	U		0.0365	0.1	0.00e+00	1.83e-03	
1,2,3,4,6,7,8-HPCDF	U		0.0503	0.01	0.00e+00	2.52e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0503	0.01	0.00e+00	2.52e-04	
OCDF		0.246	0.0389	0.0003	7.38e-05	7.38e-05	
			TOTAL TEQ		0.0352	0.0928	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-34_TEQ_SJ881725.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A1R1-manila
Sample Collection:
17-Jun-2008 11:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-35
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 02:25:11	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	84.9
		% Lipid:	0.88

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.030	0.0199	0.25	1.001
1,2,3,7,8-PECDD [3]	U		0.0517		
1,2,3,4,7,8-HXCDD	U		0.0795		
1,2,3,6,7,8-HXCDD	U		0.0795		
1,2,3,7,8,9-HXCDD	U		0.0795		
1,2,3,4,6,7,8-HPCDD		0.566	0.0445	0.96	1.000
OCDD		2.91	0.134	0.91	1.000
2,3,7,8-TCDF		0.135	0.0199	0.80	1.001
1,2,3,7,8-PECDF	U		0.0405		
2,3,4,7,8-PECDF	U		0.0405		
1,2,3,4,7,8-HXCDF	U		0.0370		
1,2,3,6,7,8-HXCDF	U		0.0370		
1,2,3,7,8,9-HXCDF	U		0.0370		
2,3,4,6,7,8-HXCDF	U		0.0370		
1,2,3,4,6,7,8-HPCDF	J	0.154	0.0509	1.01	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0509		
OCDF	J	0.245	0.0393	0.91	1.002
TOTAL TETRA-DIOXINS		0.077	0.0199		
TOTAL PENTA-DIOXINS		0.071	0.0517		
TOTAL HEXA-DIOXINS		0.566	0.0795		
TOTAL HEPTA-DIOXINS		1.65	0.0445		
TOTAL TETRA-FURANS		0.407	0.0199		
TOTAL PENTA-FURANS		0.063	0.0405		
TOTAL HEXA-FURANS		0.050	0.0370		
TOTAL HEPTA-FURANS		0.314	0.0509		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-35_Form1A_DX82_244S8_SJ881186.html; Workgroup: WG25701; Design ID: 883]

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.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A1R1-manila
Sample Collection:
17-Jun-2008 11:00

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-35
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 02:25:11	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg absolute	**% Moisture:**	84.9
		% Lipid:	0.88

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1310	65.3	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1490	74.7	0.63	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1420	70.8	1.25	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1550	77.5	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1320	65.9	1.03	1.094
13C-OCDD		4000	2350	58.7	0.90	1.178
13C-2,3,7,8-TCDF		2000	1360	68.2	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	1270	63.3	1.56	1.288
13C-2,3,4,7,8-PECDF		2000	1290	64.7	1.56	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1450	72.4	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1470	73.6	0.53	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1380	68.9	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1400	70.0	0.54	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1310	65.7	0.44	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1280	63.8	0.44	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	153	76.6		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-35_Form2_DX82_244S8_SJ881186.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A1R1-manila
Sample Collection:
17-Jun-2008 11:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-35
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 04:26:32	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_137 S: 16**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_137 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	84.9 0.88

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		0.114	0.0406	0.76	1.001

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-35_Form1A_DB83_137S16_SJ881708.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A1R1-manila

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

		Sample Collection:	17-Jun-2008 11:00
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-35
Sample Size:	25.1 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_137 S: 16** **DX82_244 S: 8**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0199	1	0.00e+00	9.95e-03	
1,2,3,7,8-PECDD	U		0.0517	1	0.00e+00	2.59e-02	
1,2,3,4,7,8-HXCDD	U		0.0795	0.1	0.00e+00	3.98e-03	
1,2,3,6,7,8-HXCDD	U		0.0795	0.1	0.00e+00	3.98e-03	
1,2,3,7,8,9-HXCDD	U		0.0795	0.1	0.00e+00	3.98e-03	
1,2,3,4,6,7,8-HPCDD		0.566	0.0445	0.01	5.66e-03	5.66e-03	
OCDD		2.91	0.134	0.0003	8.73e-04	8.73e-04	
2,3,7,8-TCDF		0.114	0.0406	0.1	1.14e-02	1.14e-02	
1,2,3,7,8-PECDF	U		0.0405	0.03	0.00e+00	6.08e-04	
2,3,4,7,8-PECDF	U		0.0405	0.3	0.00e+00	6.08e-03	
1,2,3,4,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,6,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,7,8,9-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
2,3,4,6,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,4,6,7,8-HPCDF		0.154	0.0509	0.01	1.54e-03	1.54e-03	
1,2,3,4,7,8,9-HPCDF	U		0.0509	0.01	0.00e+00	2.55e-04	
OCDF		0.245	0.0393	0.0003	7.35e-05	7.35e-05	
			TOTAL TEQ		0.0195	0.0816	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-35_TEQ_SJ881708.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A1R3-manila
Sample Collection:
17-Jun-2008 11:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-36
Matrix:	TISSUE	**Sample Size:**	26.7 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 17:06:40	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	87.1
		% Lipid:	0.60

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.024	0.0188	0.33	1.001
1,2,3,7,8-PECDD [3]	U		0.0488		
1,2,3,4,7,8-HXCDD	U		0.0750		
1,2,3,6,7,8-HXCDD	U		0.0750		
1,2,3,7,8,9-HXCDD	U		0.0750		
1,2,3,4,6,7,8-HPCDD	J	0.466	0.0420	1.12	1.000
OCDD		2.28	0.126	0.90	1.000
2,3,7,8-TCDF	J	0.093	0.0188	0.79	1.001
1,2,3,7,8-PECDF	U		0.0383		
2,3,4,7,8-PECDF	U		0.0383		
1,2,3,4,7,8-HXCDF	U		0.0349		
1,2,3,6,7,8-HXCDF	U		0.0349		
1,2,3,7,8,9-HXCDF	U		0.0349		
2,3,4,6,7,8-HXCDF	U		0.0349		
1,2,3,4,6,7,8-HPCDF	J	0.102	0.0480	1.15	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0480		
OCDF	J	0.142	0.0371	0.80	1.002
TOTAL TETRA-DIOXINS		0.058	0.0188		
TOTAL PENTA-DIOXINS	U		0.0488		
TOTAL HEXA-DIOXINS		0.388	0.0750		
TOTAL HEPTA-DIOXINS		1.25	0.0420		
TOTAL TETRA-FURANS		0.136	0.0188		
TOTAL PENTA-FURANS	U		0.0383		
TOTAL HEXA-FURANS		0.070	0.0349		
TOTAL HEPTA-FURANS		0.194	0.0480		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-36_Form1A_DX82_245S11_SJ881210.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A1R3-manila
Sample Collection:
17-Jun-2008 11:00

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-36
Matrix:	TISSUE	**Sample Size:**	26.7 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 17:06:40	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg absolute	**% Moisture:**	87.1
		% Lipid:	0.60

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1560	78.2	0.80	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1730	86.5	0.62	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1740	86.9	1.24	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1690	84.6	1.24	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1640	81.8	1.04	1.094
13C-OCDD		4000	3100	77.5	0.89	1.178
13C-2,3,7,8-TCDF		2000	1610	80.5	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1540	77.0	1.58	1.288
13C-2,3,4,7,8-PECDF		2000	1550	77.4	1.57	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1720	85.9	0.54	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1750	87.4	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1800	89.9	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1670	83.7	0.53	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1710	85.4	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1680	84.2	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	175	87.4		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-36_Form2_DX82_245S11_SJ881210.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A1R3-manila
Sample Collection:
17-Jun-2008 11:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-36
Matrix:	TISSUE	**Sample Size:**	26.7 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 16:18:47	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_138 S: 16**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_138 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	87.1 0.60

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.061	0.0458	0.74	1.001

(1) Where applicable, custom lab flags have been used on this report; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-36_Form1A_DB83_138S16_SJ881726.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A1R3-manila

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

		Sample Collection:	17-Jun-2008 11:00
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-36
Sample Size:	26.7 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_138 S: 16** **DX82_245 S: 11**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0188	1	0.00e+00	9.40e-03	
1,2,3,7,8-PECDD	U		0.0488	1	0.00e+00	2.44e-02	
1,2,3,4,7,8-HXCDD	U		0.0750	0.1	0.00e+00	3.75e-03	
1,2,3,6,7,8-HXCDD	U		0.0750	0.1	0.00e+00	3.75e-03	
1,2,3,7,8,9-HXCDD	U		0.0750	0.1	0.00e+00	3.75e-03	
1,2,3,4,6,7,8-HPCDD		0.466	0.0420	0.01	4.66e-03	4.66e-03	
OCDD		2.28	0.126	0.0003	6.84e-04	6.84e-04	
2,3,7,8-TCDF		0.061	0.0458	0.1	6.10e-03	6.10e-03	
1,2,3,7,8-PECDF	U		0.0383	0.03	0.00e+00	5.75e-04	
2,3,4,7,8-PECDF	U		0.0383	0.3	0.00e+00	5.75e-03	
1,2,3,4,7,8-HXCDF	U		0.0349	0.1	0.00e+00	1.75e-03	
1,2,3,6,7,8-HXCDF	U		0.0349	0.1	0.00e+00	1.75e-03	
1,2,3,7,8,9-HXCDF	U		0.0349	0.1	0.00e+00	1.75e-03	
2,3,4,6,7,8-HXCDF	U		0.0349	0.1	0.00e+00	1.75e-03	
1,2,3,4,6,7,8-HPCDF		0.102	0.0480	0.01	1.02e-03	1.02e-03	
1,2,3,4,7,8,9-HPCDF	U		0.0480	0.01	0.00e+00	2.40e-04	
OCDF		0.142	0.0371	0.0003	4.26e-05	4.26e-05	
			TOTAL TEQ		0.0125	0.0711	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: TEQ.xsl; Created: 22-Jul-2008 13:35:21; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613-TEQ_L11328-36_TEQ_SJ881726.html; Workgroup: WG25730; Design ID: 883]

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.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-bentnose
Sample Collection:
17-Jun-2008 12:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-37
Matrix:	TISSUE	**Sample Size:**	25.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 18:01:04	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 12**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	85.2
		% Lipid:	1.11

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	U		0.0200		
1,2,3,7,8-PECDD [3]	U		0.0519		
1,2,3,4,7,8-HXCDD	U		0.0799		
1,2,3,6,7,8-HXCDD	K J	0.085	0.0799	1.00	1.000
1,2,3,7,8,9-HXCDD	U		0.0799		
1,2,3,4,6,7,8-HPCDD		0.620	0.0447	1.10	1.000
OCDD		3.22	0.135	0.89	1.000
2,3,7,8-TCDF	J	0.090	0.0258	0.86	1.001
1,2,3,7,8-PECDF	U		0.0407		
2,3,4,7,8-PECDF	U		0.0407		
1,2,3,4,7,8-HXCDF	U		0.0371		
1,2,3,6,7,8-HXCDF	U		0.0371		
1,2,3,7,8,9-HXCDF	U		0.0371		
2,3,4,6,7,8-HXCDF	U		0.0371		
1,2,3,4,6,7,8-HPCDF	J	0.147	0.0511	0.97	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0511		
OCDF	J	0.216	0.0395	0.87	1.002
TOTAL TETRA-DIOXINS		0.085	0.0200		
TOTAL PENTA-DIOXINS		0.072	0.0519		
TOTAL HEXA-DIOXINS		0.693	0.0799		
TOTAL HEPTA-DIOXINS		2.37	0.0447		
TOTAL TETRA-FURANS		0.259	0.0258		
TOTAL PENTA-FURANS		0.055	0.0407		
TOTAL HEXA-FURANS		0.104	0.0371		
TOTAL HEPTA-FURANS		0.294	0.0511		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-37_Form1A_DX82_245S12_SJ881211.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-bentnose
Sample Collection:
17-Jun-2008 12:00

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-37
Matrix:	TISSUE	**Sample Size:**	25.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 18:01:04	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_245 S: 12**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_245 S: 1
Concentration Units:	pg absolute	**% Moisture:**	85.2
		% Lipid:	1.11

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	1260	62.8	0.81	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1460	72.9	0.62	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1340	67.2	1.25	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1370	68.3	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1350	67.4	1.05	1.094
13C-OCDD		4000	2380	59.4	0.90	1.178
13C-2,3,7,8-TCDF		2000	1290	64.7	0.80	0.968
13C-1,2,3,7,8-PECDF		2000	1230	61.5	1.56	1.287
13C-2,3,4,7,8-PECDF		2000	1260	63.1	1.56	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1370	68.4	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1360	68.2	0.54	0.959
13C-1,2,3,7,8,9-HXCDF		2000	1350	67.3	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1380	69.0	0.53	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1310	65.3	0.46	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1350	67.3	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	127	63.3		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-37_Form2_DX82_245S12_SJ881211.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-bentnose
Sample Collection:
17-Jun-2008 12:00

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-37
Matrix:	TISSUE	**Sample Size:**	25.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 16:54:21	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_138 S: 17**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_138 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	85.2 1.11

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K J	0.081	0.0754	1.28	1.000

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-37_Form1A_DB83_138S17_SJ881727.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R2-bentnose

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

Sample Collection: 17-Jun-2008 12:00

Contract No.: 4406

Project No. FIDALGO BAY TISSUE INVESTIGATION

Matrix: TISSUE

Lab Sample I.D.: L11328-37

Sample Size: 25.0 g (wet)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (wet weight basis)

Sample Data Filenames: **DB83_138 S: 17**
DX82_245 S: 12

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0200	1	0.00e+00	1.00e-02	
1,2,3,7,8-PECDD	U		0.0519	1	0.00e+00	2.60e-02	
1,2,3,4,7,8-HXCDD	U		0.0799	0.1	0.00e+00	4.00e-03	
1,2,3,6,7,8-HXCDD	U		0.0799	0.1	0.00e+00	4.00e-03	
1,2,3,7,8,9-HXCDD	U		0.0799	0.1	0.00e+00	4.00e-03	
1,2,3,4,6,7,8-HPCDD		0.620	0.0447	0.01	6.20e-03	6.20e-03	
OCDD		3.22	0.135	0.0003	9.66e-04	9.66e-04	
2,3,7,8-TCDF	U		0.0754	0.1	0.00e+00	3.77e-03	
1,2,3,7,8-PECDF	U		0.0407	0.03	0.00e+00	6.11e-04	
2,3,4,7,8-PECDF	U		0.0407	0.3	0.00e+00	6.11e-03	
1,2,3,4,7,8-HXCDF	U		0.0371	0.1	0.00e+00	1.86e-03	
1,2,3,6,7,8-HXCDF	U		0.0371	0.1	0.00e+00	1.86e-03	
1,2,3,7,8,9-HXCDF	U		0.0371	0.1	0.00e+00	1.86e-03	
2,3,4,6,7,8-HXCDF	U		0.0371	0.1	0.00e+00	1.86e-03	
1,2,3,4,6,7,8-HPCDF		0.147	0.0511	0.01	1.47e-03	1.47e-03	
1,2,3,4,7,8,9-HPCDF	U		0.0511	0.01	0.00e+00	2.56e-04	
OCDF		0.216	0.0395	0.0003	6.48e-05	6.48e-05	
			TOTAL TEQ		0.00870	0.0748	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-37_TEQ_SJ881727.html; Workgroup: WG25730; Design ID: 883]

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.

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-bentnose
Sample Collection:
17-Jun-2008 13:55

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-38
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 03:19:33	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	82.8
		% Lipid:	0.68

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.026	0.0199	0.36	1.000
1,2,3,7,8-PECDD [3]	U		0.0518		
1,2,3,4,7,8-HXCDD	U		0.0797		
1,2,3,6,7,8-HXCDD	J	0.132	0.0797	1.39	1.000
1,2,3,7,8,9-HXCDD	K J	0.098	0.0797	0.99	1.010
1,2,3,4,6,7,8-HPCDD		1.24	0.0446	1.08	1.000
OCDD		6.91	0.134	0.88	1.000
2,3,7,8-TCDF	J	0.100	0.0199	0.72	1.001
1,2,3,7,8-PECDF	U		0.0406		
2,3,4,7,8-PECDF	U		0.0406		
1,2,3,4,7,8-HXCDF	K J	0.050	0.0370	0.79	1.000
1,2,3,6,7,8-HXCDF	U		0.0370		
1,2,3,7,8,9-HXCDF	U		0.0370		
2,3,4,6,7,8-HXCDF	U		0.0370		
1,2,3,4,6,7,8-HPCDF	J	0.285	0.0510	1.01	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0510		
OCDF	J	0.478	0.0394	0.86	1.002
TOTAL TETRA-DIOXINS		0.203	0.0199		
TOTAL PENTA-DIOXINS		0.100	0.0518		
TOTAL HEXA-DIOXINS		1.16	0.0797		
TOTAL HEPTA-DIOXINS		3.99	0.0446		
TOTAL TETRA-FURANS		0.311	0.0199		
TOTAL PENTA-FURANS		0.237	0.0406		
TOTAL HEXA-FURANS		0.200	0.0370		
TOTAL HEPTA-FURANS		0.615	0.0510		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-38_Form1A_DX82_244S9_SJ881187.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-bentnose
Sample Collection:
17-Jun-2008 13:55

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-38
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 03:19:33	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg absolute	**% Moisture:**	82.8
		% Lipid:	0.68

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1410	70.5	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1500	74.8	0.62	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1470	73.3	1.25	0.986
13C-1,2,3,6,7,8-HXCDD		2000	1530	76.5	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1390	69.7	1.04	1.094
13C-OCDD		4000	2520	63.1	0.90	1.178
13C-2,3,7,8-TCDF		2000	1430	71.5	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	1380	69.1	1.55	1.288
13C-2,3,4,7,8-PECDF		2000	1420	71.2	1.57	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1490	74.3	0.52	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1530	76.6	0.53	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1450	72.7	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1460	73.1	0.52	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1400	69.9	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1390	69.5	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	160	79.8		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 22-Jul-2008 09:09:26; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613DB5_L11328-38_Form2_DX82_244S9_SJ881187.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-bentnose
Sample Collection:
17-Jun-2008 13:55

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-38
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 05:02:10	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_137 S: 17**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_137 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	82.8 0.68

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K J	0.082	0.0592	0.51	1.002

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-38_Form1A_DB83_137S17_SJ881709.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R3-bentnose

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

		Sample Collection:	17-Jun-2008 13:55
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-38
Sample Size:	25.1 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_137 S: 17** **DX82_244 S: 9**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0199	1	0.00e+00	9.95e-03	
1,2,3,7,8-PECDD	U		0.0518	1	0.00e+00	2.59e-02	
1,2,3,4,7,8-HXCDD	U		0.0797	0.1	0.00e+00	3.99e-03	
1,2,3,6,7,8-HXCDD		0.132	0.0797	0.1	1.32e-02	1.32e-02	
1,2,3,7,8,9-HXCDD	U		0.0797	0.1	0.00e+00	3.99e-03	
1,2,3,4,6,7,8-HPCDD		1.24	0.0446	0.01	1.24e-02	1.24e-02	
OCDD		6.91	0.134	0.0003	2.07e-03	2.07e-03	
2,3,7,8-TCDF	U		0.0592	0.1	0.00e+00	2.96e-03	
1,2,3,7,8-PECDF	U		0.0406	0.03	0.00e+00	6.09e-04	
2,3,4,7,8-PECDF	U		0.0406	0.3	0.00e+00	6.09e-03	
1,2,3,4,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,6,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,7,8,9-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
2,3,4,6,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,4,6,7,8-HPCDF		0.285	0.0510	0.01	2.85e-03	2.85e-03	
1,2,3,4,7,8,9-HPCDF	U		0.0510	0.01	0.00e+00	2.55e-04	
OCDF		0.478	0.0394	0.0003	1.43e-04	1.43e-04	
			TOTAL TEQ		0.0307	0.0918	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-38_TEQ_SJ881709.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R1-manila
Sample Collection:
17-Jun-2008 14:15

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-39
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	13-Jul-2008 **Time:** 00:33:25	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_246 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_246 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	80.4
		% Lipid:	0.78

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.026	0.0198	0.45	1.001
1,2,3,7,8-PECDD [3]	U		0.0515		
1,2,3,4,7,8-HXCDD	U		0.0792		
1,2,3,6,7,8-HXCDD	K J	0.208	0.0792	1.61	1.000
1,2,3,7,8,9-HXCDD	J	0.160	0.0792	1.34	1.010
1,2,3,4,6,7,8-HPCDD		2.10	0.0444	1.04	1.000
OCDD		13.2	0.134	0.90	1.000
2,3,7,8-TCDF		0.150	0.0216	0.85	1.001
1,2,3,7,8-PECDF	U		0.0404		
2,3,4,7,8-PECDF	J	0.044	0.0404	1.72	1.000
1,2,3,4,7,8-HXCDF	J	0.075	0.0368	1.34	1.000
1,2,3,6,7,8-HXCDF	J	0.038	0.0368	1.32	1.001
1,2,3,7,8,9-HXCDF	U		0.0368		
2,3,4,6,7,8-HXCDF	K J	0.041	0.0368	0.89	1.000
1,2,3,4,6,7,8-HPCDF	J	0.420	0.0507	1.00	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0507		
OCDF	J	0.831	0.0392	0.87	1.002
TOTAL TETRA-DIOXINS		0.222	0.0198		
TOTAL PENTA-DIOXINS		0.204	0.0515		
TOTAL HEXA-DIOXINS		1.73	0.0792		
TOTAL HEPTA-DIOXINS		7.62	0.0444		
TOTAL TETRA-FURANS		0.621	0.0216		
TOTAL PENTA-FURANS		0.450	0.0404		
TOTAL HEXA-FURANS		0.554	0.0368		
TOTAL HEPTA-FURANS		0.943	0.0507		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-39_Form1A_DX82_246S6_SJ881193.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R1-manila
Sample Collection:
17-Jun-2008 14:15

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-39
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	13-Jul-2008 **Time:** 00:33:25	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_246 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_246 S: 1
Concentration Units:	pg absolute	**% Moisture:**	80.4
		% Lipid:	0.78

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	1350	67.7	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1560	78.2	0.62	1.387
13C-1,2,3,4,7,8-HXCDD		2000	1400	70.0	1.28	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1490	74.7	1.26	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1370	68.5	1.04	1.094
13C-OCDD		4000	2420	60.4	0.89	1.178
13C-2,3,7,8-TCDF		2000	1360	68.1	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1300	65.1	1.56	1.289
13C-2,3,4,7,8-PECDF		2000	1330	66.3	1.56	1.356
13C-1,2,3,4,7,8-HXCDF		2000	1400	69.8	0.52	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1470	73.4	0.53	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1430	71.3	0.52	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1400	70.2	0.54	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1350	67.6	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1320	65.9	0.46	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	152	76.2		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-39_Form2_DX82_246S6_SJ881193.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R1-manila
Sample Collection:
17-Jun-2008 14:15

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-39
Matrix:	TISSUE	**Sample Size:**	25.2 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 17:29:55	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_138 S: 18**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_138 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	80.4 0.78

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K J	0.099	0.0706	0.60	1.001

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 22-Jul-2008 13:34:56; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613DB225_L11328-39_Form1A_DB83_138S18_SJ881728.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A2R1-manila

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

		Sample Collection:	17-Jun-2008 14:15
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-39
Sample Size:	25.2 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_138 S: 18** **DX82_246 S: 6**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0198	1	0.00e+00	9.90e-03	
1,2,3,7,8-PECDD	U		0.0515	1	0.00e+00	2.58e-02	
1,2,3,4,7,8-HXCDD	U		0.0792	0.1	0.00e+00	3.96e-03	
1,2,3,6,7,8-HXCDD	U		0.0792	0.1	0.00e+00	3.96e-03	
1,2,3,7,8,9-HXCDD		0.160	0.0792	0.1	1.60e-02	1.60e-02	
1,2,3,4,6,7,8-HPCDD		2.10	0.0444	0.01	2.10e-02	2.10e-02	
OCDD		13.2	0.134	0.0003	3.96e-03	3.96e-03	
2,3,7,8-TCDF	U		0.0706	0.1	0.00e+00	3.53e-03	
1,2,3,7,8-PECDF	U		0.0404	0.03	0.00e+00	6.06e-04	
2,3,4,7,8-PECDF		0.044	0.0404	0.3	1.32e-02	1.32e-02	
1,2,3,4,7,8-HXCDF		0.075	0.0368	0.1	7.50e-03	7.50e-03	
1,2,3,6,7,8-HXCDF		0.038	0.0368	0.1	3.80e-03	3.80e-03	
1,2,3,7,8,9-HXCDF	U		0.0368	0.1	0.00e+00	1.84e-03	
2,3,4,6,7,8-HXCDF	U		0.0368	0.1	0.00e+00	1.84e-03	
1,2,3,4,6,7,8-HPCDF		0.420	0.0507	0.01	4.20e-03	4.20e-03	
1,2,3,4,7,8,9-HPCDF	U		0.0507	0.01	0.00e+00	2.54e-04	
OCDF		0.831	0.0392	0.0003	2.49e-04	2.49e-04	
			TOTAL TEQ		0.0699	0.122	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: TEQ.xsl; Created: 22-Jul-2008 13:35:21; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613-TEQ_L11328-39_TEQ_SJ881728.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-horse
Sample Collection:
17-Jun-2008 14:55

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-40 (A)
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	13-Jul-2008 **Time:** 01:27:49	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_246 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_246 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	87.3
		% Lipid:	0.54

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.022	0.0199	0.25	1.001
1,2,3,7,8-PECDD [3]	U		0.0517		
1,2,3,4,7,8-HXCDD	U		0.0796		
1,2,3,6,7,8-HXCDD	U		0.0796		
1,2,3,7,8,9-HXCDD	U		0.0796		
1,2,3,4,6,7,8-HPCDD	J	0.550	0.0446	1.14	1.000
OCDD		3.37	0.134	0.90	1.000
2,3,7,8-TCDF	J	0.039	0.0199	0.77	1.001
1,2,3,7,8-PECDF	U		0.0406		
2,3,4,7,8-PECDF	U		0.0406		
1,2,3,4,7,8-HXCDF	U		0.0370		
1,2,3,6,7,8-HXCDF	U		0.0370		
1,2,3,7,8,9-HXCDF	U		0.0370		
2,3,4,6,7,8-HXCDF	U		0.0370		
1,2,3,4,6,7,8-HPCDF	J	0.092	0.0509	1.12	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0509		
OCDF	J	0.216	0.0394	0.86	1.002
TOTAL TETRA-DIOXINS		0.032	0.0199		
TOTAL PENTA-DIOXINS	U		0.0517		
TOTAL HEXA-DIOXINS		0.157	0.0796		
TOTAL HEPTA-DIOXINS		1.88	0.0446		
TOTAL TETRA-FURANS		0.104	0.0199		
TOTAL PENTA-FURANS		0.063	0.0406		
TOTAL HEXA-FURANS		0.118	0.0370		
TOTAL HEPTA-FURANS		0.258	0.0509		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-40_Form1A_DX82_246S7_SJ881194.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-horse
Sample Collection:
17-Jun-2008 14:55

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-40 (A)
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	13-Jul-2008 **Time:** 01:27:49	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_246 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_246 S: 1
Concentration Units:	pg absolute	**% Moisture:**	87.3
		% Lipid:	0.54

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1450	72.4	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1600	80.2	0.62	1.386
13C-1,2,3,4,7,8-HXCDD		2000	1530	76.6	1.25	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1520	75.9	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1470	73.3	1.04	1.094
13C-OCDD		4000	2650	66.1	0.89	1.178
13C-2,3,7,8-TCDF		2000	1460	73.1	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	1430	71.7	1.57	1.288
13C-2,3,4,7,8-PECDF		2000	1440	72.1	1.55	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1470	73.5	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1540	77.1	0.53	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1490	74.7	0.52	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1460	73.2	0.51	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1420	71.1	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1410	70.6	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	178	89.0		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-40_Form2_DX82_246S7_SJ881194.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-horse
Sample Collection:
17-Jun-2008 14:55

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-40 (A)
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 22:39:45	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_139 S: 6**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_139 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	87.3 0.54

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	U		0.0402		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-40_Form1A_DB83_139S6_SJ881769.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-horse

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

Sample Collection: 17-Jun-2008 14:55

Contract No.: 4406

Project No. FIDALGO BAY TISSUE INVESTIGATION

Matrix: TISSUE

Lab Sample I.D.: L11328-40 (A)

Sample Size: 25.1 g (wet)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (wet weight basis)

Sample Data Filenames: **DB83_139 S: 6**
DX82_246 S: 7

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0199	1	0.00e+00	9.95e-03	
1,2,3,7,8-PECDD	U		0.0517	1	0.00e+00	2.59e-02	
1,2,3,4,7,8-HXCDD	U		0.0796	0.1	0.00e+00	3.98e-03	
1,2,3,6,7,8-HXCDD	U		0.0796	0.1	0.00e+00	3.98e-03	
1,2,3,7,8,9-HXCDD	U		0.0796	0.1	0.00e+00	3.98e-03	
1,2,3,4,6,7,8-HPCDD		0.550	0.0446	0.01	5.50e-03	5.50e-03	
OCDD		3.37	0.134	0.0003	1.01e-03	1.01e-03	
2,3,7,8-TCDF	U		0.0402	0.1	0.00e+00	2.01e-03	
1,2,3,7,8-PECDF	U		0.0406	0.03	0.00e+00	6.09e-04	
2,3,4,7,8-PECDF	U		0.0406	0.3	0.00e+00	6.09e-03	
1,2,3,4,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,6,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,7,8,9-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
2,3,4,6,7,8-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
1,2,3,4,6,7,8-HPCDF		0.092	0.0509	0.01	9.20e-04	9.20e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0509	0.01	0.00e+00	2.55e-04	
OCDF		0.216	0.0394	0.0003	6.48e-05	6.48e-05	
			TOTAL TEQ		0.00750	0.0716	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-40_TEQ_SJ881769.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-horse (Duplicate)
Sample Collection:
17-Jun-2008 14:55

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	WG25730-103 (DUP L11328-40)
Matrix:	TISSUE	**Sample Size:**	25.8 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	13-Jul-2008 **Time:** 02:22:12	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_246 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_246 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	86.6
		% Lipid:	0.73

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	U		0.0194		
1,2,3,7,8-PECDD [3]	U		0.0505		
1,2,3,4,7,8-HXCDD	U		0.0776		
1,2,3,6,7,8-HXCDD	U		0.0776		
1,2,3,7,8,9-HXCDD	U		0.0776		
1,2,3,4,6,7,8-HPCDD		0.588	0.0435	1.07	1.000
OCDD		4.25	0.131	0.88	1.000
2,3,7,8-TCDF	K J	0.035	0.0197	1.00	1.001
1,2,3,7,8-PECDF	U		0.0396		
2,3,4,7,8-PECDF	U		0.0396		
1,2,3,4,7,8-HXCDF	U		0.0361		
1,2,3,6,7,8-HXCDF	U		0.0361		
1,2,3,7,8,9-HXCDF	U		0.0361		
2,3,4,6,7,8-HXCDF	U		0.0361		
1,2,3,4,6,7,8-HPCDF	J	0.085	0.0497	1.14	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0497		
OCDF	J	0.233	0.0384	0.84	1.002
TOTAL TETRA-DIOXINS		0.029	0.0194		
TOTAL PENTA-DIOXINS	U		0.0505		
TOTAL HEXA-DIOXINS		0.305	0.0776		
TOTAL HEPTA-DIOXINS		2.06	0.0435		
TOTAL TETRA-FURANS	U		0.0197		
TOTAL PENTA-FURANS		0.068	0.0396		
TOTAL HEXA-FURANS	U		0.0361		
TOTAL HEPTA-FURANS		0.244	0.0497		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_WG25730-103_Form1A_DX82_246S8_SJ881195.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-horse (Duplicate)
Sample Collection:
17-Jun-2008 14:55

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	WG25730-103 (DUP L11328-40)
Matrix:	TISSUE	**Sample Size:**	25.8 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	13-Jul-2008 **Time:** 02:22:12	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_246 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_246 S: 1
Concentration Units:	pg absolute	**% Moisture:**	86.6
		% Lipid:	0.73

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	1320	65.8	0.80	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1520	76.0	0.63	1.386
13C-1,2,3,4,7,8-HXCDD		2000	1420	70.9	1.25	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1540	76.8	1.24	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1410	70.7	1.05	1.094
13C-OCDD		4000	2560	64.1	0.90	1.178
13C-2,3,7,8-TCDF		2000	1320	65.8	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	1330	66.6	1.56	1.288
13C-2,3,4,7,8-PECDF		2000	1370	68.3	1.57	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1430	71.6	0.51	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1520	76.1	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1440	72.0	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1420	71.2	0.52	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1380	68.9	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1380	69.0	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	159	79.3		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_WG25730-103_Form2_DX82_246S8_SJ881195.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R1-horse (Duplicate)
Sample Collection:
17-Jun-2008 14:55

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	WG25730-103 (DUP L11328-40)
Matrix:	TISSUE	**Sample Size:**	25.8 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 23:15:20	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_139 S: 7**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_139 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	86.6 0.73

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	U		0.0572		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_WG25730-103_Form1A_DB83_139S7_SJ881770.html; Workgroup: WG25730; Design ID: 883]

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.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

PCDD/PCDF ANALYSIS TEQ DATA REPORT

CLIENT SAMPLE NO.
A3R1-horse (Duplicate)

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

Sample Collection: 17-Jun-2008 14:55

Contract No.: 4406

Project No. FIDALGO BAY TISSUE INVESTIGATION

Matrix: TISSUE

Lab Sample I.D.: WG25730-103 (DUP L11328-40)

Sample Size: 25.8 g (wet)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (wet weight basis)

Sample Data Filenames: **DB83_139 S: 7**
DX82_246 S: 8

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0194	1	0.00e+00	9.70e-03	
1,2,3,7,8-PECDD	U		0.0505	1	0.00e+00	2.53e-02	
1,2,3,4,7,8-HXCDD	U		0.0776	0.1	0.00e+00	3.88e-03	
1,2,3,6,7,8-HXCDD	U		0.0776	0.1	0.00e+00	3.88e-03	
1,2,3,7,8,9-HXCDD	U		0.0776	0.1	0.00e+00	3.88e-03	
1,2,3,4,6,7,8-HPCDD		0.588	0.0435	0.01	5.88e-03	5.88e-03	
OCDD		4.25	0.131	0.0003	1.28e-03	1.28e-03	
2,3,7,8-TCDF	U		0.0572	0.1	0.00e+00	2.86e-03	
1,2,3,7,8-PECDF	U		0.0396	0.03	0.00e+00	5.94e-04	
2,3,4,7,8-PECDF	U		0.0396	0.3	0.00e+00	5.94e-03	
1,2,3,4,7,8-HXCDF	U		0.0361	0.1	0.00e+00	1.81e-03	
1,2,3,6,7,8-HXCDF	U		0.0361	0.1	0.00e+00	1.81e-03	
1,2,3,7,8,9-HXCDF	U		0.0361	0.1	0.00e+00	1.81e-03	
2,3,4,6,7,8-HXCDF	U		0.0361	0.1	0.00e+00	1.81e-03	
1,2,3,4,6,7,8-HPCDF		0.085	0.0497	0.01	8.50e-04	8.50e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0497	0.01	0.00e+00	2.49e-04	
OCDF		0.233	0.0384	0.0003	6.99e-05	6.99e-05	
			TOTAL TEQ		0.00807	0.0715	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: TEQ.xsl; Created: 22-Jul-2008 13:35:21; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613-TEQ_WG25730-103_TEQ_SJ881770.html; Workgroup: WG25730; Design ID: 883]

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.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

PCDD/PCDF ANALYSIS REPORT
RELATIVE PERCENT DIFFERENCE

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

Project No. FIDALGO BAY TISSUE INVESTIGATION

Contract No.: 4406

Client ID: A3R1-horse

Concentration Units: pg/g (wet weight basis)

COMPOUND	L11328-40 (A) LAB FLAG [1]	L11328-40 (A) CONC. FOUND	WG25730-103 LAB FLAG [1]	WG25730-103 CONC. FOUND	MEAN	RELATIVE PERCENT DIFFERENCE
2,3,7,8-TCDD	K J	0.022	U			
1,2,3,7,8-PECDD	U		U			
1,2,3,4,7,8-HXCDD	U		U			
1,2,3,6,7,8-HXCDD	U		U			
1,2,3,7,8,9-HXCDD	U		U			
1,2,3,4,6,7,8-HPCDD	J	0.550		0.588	0.569	6.72
OCDD		3.37		4.25	3.81	23.2
2,3,7,8-TCDF	U		U			
1,2,3,7,8-PECDF	U		U			
2,3,4,7,8-PECDF	U		U			
1,2,3,4,7,8-HXCDF	U		U			
1,2,3,6,7,8-HXCDF	U		U			
1,2,3,7,8,9-HXCDF	U		U			
2,3,4,6,7,8-HXCDF	U		U			
1,2,3,4,6,7,8-HPCDF	J	0.092	J	0.085	0.089	8.16
1,2,3,4,7,8,9-HPCDF	U		U			
OCDF	J	0.216	J	0.233	0.225	7.80

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

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: RPD.xsl; Created: 22-Jul-2008 13:36:35; Application: XMLTransformer-1.9.10;
Report Filename: RPD_DIOXINS_1613-RPD_WG25730-103_L11328-40_.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-macoma
Sample Collection:
17-Jun-2008 15:15

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-41
Matrix:	TISSUE	**Sample Size:**	5.74 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	13-Jul-2008 **Time:** 03:16:34	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_246 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_246 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	80.1
		% Lipid:	0.94

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.104	0.0871	0.31	1.000
1,2,3,7,8-PECDD [3]	U		0.226		
1,2,3,4,7,8-HXCDD	U		0.348		
1,2,3,6,7,8-HXCDD	J	1.06	0.348	1.25	1.000
1,2,3,7,8,9-HXCDD	J	0.671	0.348	1.26	1.010
1,2,3,4,6,7,8-HPCDD		18.5	0.195	1.01	1.000
OCDD		131	0.587	0.89	1.000
2,3,7,8-TCDF	J	0.236	0.0871	0.88	1.001
1,2,3,7,8-PECDF	U		0.178		
2,3,4,7,8-PECDF	U		0.178		
1,2,3,4,7,8-HXCDF	J	0.206	0.162	1.26	1.000
1,2,3,6,7,8-HXCDF	U		0.162		
1,2,3,7,8,9-HXCDF	U		0.162		
2,3,4,6,7,8-HXCDF	U		0.162		
1,2,3,4,6,7,8-HPCDF	J	2.31	0.223	0.94	1.000
1,2,3,4,7,8,9-HPCDF	U		0.223		
OCDF		5.97	0.172	0.94	1.002
TOTAL TETRA-DIOXINS		0.529	0.0871		
TOTAL PENTA-DIOXINS		0.633	0.226		
TOTAL HEXA-DIOXINS		9.81	0.348		
TOTAL HEPTA-DIOXINS		71.2	0.195		
TOTAL TETRA-FURANS		0.746	0.0871		
TOTAL PENTA-FURANS		1.19	0.178		
TOTAL HEXA-FURANS		2.65	0.162		
TOTAL HEPTA-FURANS		6.71	0.223		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-41_Form1A_DX82_246S9_SJ881196.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-macoma
Sample Collection:
17-Jun-2008 15:15

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-41
Matrix:	TISSUE	**Sample Size:**	5.74 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	13-Jul-2008 **Time:** 03:16:34	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_246 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_246 S: 1
Concentration Units:	pg absolute	**% Moisture:**	80.1
		% Lipid:	0.94

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1310	65.3	0.80	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1530	76.5	0.63	1.386
13C-1,2,3,4,7,8-HXCDD		2000	1440	72.1	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1470	73.7	1.26	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1410	70.4	1.05	1.094
13C-OCDD		4000	2550	63.7	0.90	1.178
13C-2,3,7,8-TCDF		2000	1310	65.5	0.77	0.968
13C-1,2,3,7,8-PECDF		2000	1340	66.8	1.58	1.288
13C-2,3,4,7,8-PECDF		2000	1380	69.1	1.55	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1430	71.5	0.51	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1490	74.7	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1420	71.1	0.52	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1450	72.6	0.51	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1360	68.1	0.44	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1370	68.3	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	146	73.1		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-41_Form2_DX82_246S9_SJ881196.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-macoma
Sample Collection:
17-Jun-2008 15:15

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-41
Matrix:	TISSUE	**Sample Size:**	5.74 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 23:50:59	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_139 S: 8**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_139 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	80.1 0.94

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	U		0.286		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-41_Form1A_DB83_139S8_SJ881771.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R2-macoma

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

		Sample Collection:	17-Jun-2008 15:15
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-41
Sample Size:	5.74 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_139 S: 8** **DX82_246 S: 9**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0871	1	0.00e+00	4.36e-02	
1,2,3,7,8-PECDD	U		0.226	1	0.00e+00	1.13e-01	
1,2,3,4,7,8-HXCDD	U		0.348	0.1	0.00e+00	1.74e-02	
1,2,3,6,7,8-HXCDD		1.06	0.348	0.1	1.06e-01	1.06e-01	
1,2,3,7,8,9-HXCDD		0.671	0.348	0.1	6.71e-02	6.71e-02	
1,2,3,4,6,7,8-HPCDD		18.5	0.195	0.01	1.85e-01	1.85e-01	
OCDD		131	0.587	0.0003	3.93e-02	3.93e-02	
2,3,7,8-TCDF	U		0.286	0.1	0.00e+00	1.43e-02	
1,2,3,7,8-PECDF	U		0.178	0.03	0.00e+00	2.67e-03	
2,3,4,7,8-PECDF	U		0.178	0.3	0.00e+00	2.67e-02	
1,2,3,4,7,8-HXCDF		0.206	0.162	0.1	2.06e-02	2.06e-02	
1,2,3,6,7,8-HXCDF	U		0.162	0.1	0.00e+00	8.10e-03	
1,2,3,7,8,9-HXCDF	U		0.162	0.1	0.00e+00	8.10e-03	
2,3,4,6,7,8-HXCDF	U		0.162	0.1	0.00e+00	8.10e-03	
1,2,3,4,6,7,8-HPCDF		2.31	0.223	0.01	2.31e-02	2.31e-02	
1,2,3,4,7,8,9-HPCDF	U		0.223	0.01	0.00e+00	1.12e-03	
OCDF		5.97	0.172	0.0003	1.79e-03	1.79e-03	
			TOTAL TEQ		0.443	0.686	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-41_TEQ_SJ881771.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R3-manila
Sample Collection:
17-Jun-2008 15:30

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-42 L
Matrix:	TISSUE	**Sample Size:**	25.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	22-Jul-2008 **Time:** 02:37:50	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_260 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_260 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	82.7
		% Lipid:	1.35

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.023	0.0200	0.31	1.000
1,2,3,7,8-PECDD [3]	U		0.0520		
1,2,3,4,7,8-HXCDD	U		0.0800		
1,2,3,6,7,8-HXCDD	U		0.0800		
1,2,3,7,8,9-HXCDD	U		0.0800		
1,2,3,4,6,7,8-HPCDD		0.562	0.0448	1.17	1.000
OCDD		2.98	0.135	0.93	1.000
2,3,7,8-TCDF	J	0.084	0.0200	0.79	1.001
1,2,3,7,8-PECDF	U		0.0408		
2,3,4,7,8-PECDF	U		0.0408		
1,2,3,4,7,8-HXCDF	U		0.0372		
1,2,3,6,7,8-HXCDF	U		0.0372		
1,2,3,7,8,9-HXCDF	U		0.0372		
2,3,4,6,7,8-HXCDF	U		0.0372		
1,2,3,4,6,7,8-HPCDF	J	0.187	0.0512	1.12	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0512		
OCDF	J	0.287	0.0396	0.92	1.002
TOTAL TETRA-DIOXINS		0.105	0.0200		
TOTAL PENTA-DIOXINS		0.082	0.0520		
TOTAL HEXA-DIOXINS		0.645	0.0800		
TOTAL HEPTA-DIOXINS		1.58	0.0448		
TOTAL TETRA-FURANS		0.245	0.0200		
TOTAL PENTA-FURANS	U		0.0408		
TOTAL HEXA-FURANS		0.220	0.0372		
TOTAL HEPTA-FURANS		0.386	0.0512		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-42_Form1A_DX82_260S8_SJ882480.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R3-manila
Sample Collection:
17-Jun-2008 15:30

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-42 L
Matrix:	TISSUE	**Sample Size:**	25.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	22-Jul-2008 **Time:** 02:37:50	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_260 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_260 S: 1
Concentration Units:	pg absolute	**% Moisture:**	82.7
		% Lipid:	1.35

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1350	67.6	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1780	89.0	0.63	1.387
13C-1,2,3,4,7,8-HXCDD		2000	1440	71.9	1.28	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1450	72.7	1.26	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1500	74.8	1.05	1.094
13C-OCDD		4000	2530	63.3	0.89	1.178
13C-2,3,7,8-TCDF		2000	1430	71.3	0.79	0.967
13C-1,2,3,7,8-PECDF		2000	1630	81.3	1.57	1.289
13C-2,3,4,7,8-PECDF		2000	1660	83.0	1.57	1.356
13C-1,2,3,4,7,8-HXCDF		2000	1450	72.4	0.52	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1510	75.6	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1470	73.5	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1390	69.7	0.53	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1520	75.8	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1550	77.6	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	157	78.6		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-42_Form2_DX82_260S8_SJ882480.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R3-manila
Sample Collection:
17-Jun-2008 15:30

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-42
Matrix:	TISSUE	**Sample Size:**	25.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 05:37:48	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_137 S: 18**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_137 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	82.7 1.35

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K J	0.053	0.0507	0.96	1.001

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-42_Form1A_DB83_137S18_SJ881710.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A3R3-manila

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

		Sample Collection:	17-Jun-2008 15:30
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-42
Sample Size:	25.0 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_137 S: 18** **DX82_260 S: 8**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0200	1	0.00e+00	1.00e-02	
1,2,3,7,8-PECDD	U		0.0520	1	0.00e+00	2.60e-02	
1,2,3,4,7,8-HXCDD	U		0.0800	0.1	0.00e+00	4.00e-03	
1,2,3,6,7,8-HXCDD	U		0.0800	0.1	0.00e+00	4.00e-03	
1,2,3,7,8,9-HXCDD	U		0.0800	0.1	0.00e+00	4.00e-03	
1,2,3,4,6,7,8-HPCDD		0.562	0.0448	0.01	5.62e-03	5.62e-03	
OCDD		2.98	0.135	0.0003	8.94e-04	8.94e-04	
2,3,7,8-TCDF	U		0.0507	0.1	0.00e+00	2.54e-03	
1,2,3,7,8-PECDF	U		0.0408	0.03	0.00e+00	6.12e-04	
2,3,4,7,8-PECDF	U		0.0408	0.3	0.00e+00	6.12e-03	
1,2,3,4,7,8-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
1,2,3,6,7,8-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
1,2,3,7,8,9-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
2,3,4,6,7,8-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
1,2,3,4,6,7,8-HPCDF		0.187	0.0512	0.01	1.87e-03	1.87e-03	
1,2,3,4,7,8,9-HPCDF	U		0.0512	0.01	0.00e+00	2.56e-04	
OCDF		0.287	0.0396	0.0003	8.61e-05	8.61e-05	
			TOTAL TEQ		0.00847	0.0734	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: TEQ.xsl; Created: 22-Jul-2008 09:11:43; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613-TEQ_L11328-42_TEQ_SJ881710.html; Workgroup: WG25701; Design ID: 883]

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.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R2-bentnose
Sample Collection:
17-Jun-2008 15:45

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-43
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 05:08:20	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	82.5
		% Lipid:	0.79

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.032	0.0199	0.44	1.001
1,2,3,7,8-PECDD [3]	J	0.056	0.0517	0.56	1.000
1,2,3,4,7,8-HXCDD	U		0.0796		
1,2,3,6,7,8-HXCDD	J	0.323	0.0796	1.42	1.000
1,2,3,7,8,9-HXCDD	J	0.173	0.0796	1.28	1.010
1,2,3,4,6,7,8-HPCDD		6.11	0.0446	1.03	1.000
OCDD		44.0	0.134	0.89	1.000
2,3,7,8-TCDF		0.127	0.0199	0.87	1.001
1,2,3,7,8-PECDF	U		0.0406		
2,3,4,7,8-PECDF	J	0.047	0.0406	1.33	1.000
1,2,3,4,7,8-HXCDF	J	0.063	0.0370	1.28	1.000
1,2,3,6,7,8-HXCDF	J	0.044	0.0370	1.14	1.000
1,2,3,7,8,9-HXCDF	U		0.0370		
2,3,4,6,7,8-HXCDF	J	0.050	0.0370	1.09	1.000
1,2,3,4,6,7,8-HPCDF		0.838	0.0509	1.03	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0509		
OCDF		1.60	0.0394	0.85	1.002
TOTAL TETRA-DIOXINS		0.123	0.0199		
TOTAL PENTA-DIOXINS		0.189	0.0517		
TOTAL HEXA-DIOXINS		3.25	0.0796		
TOTAL HEPTA-DIOXINS		24.4	0.0446		
TOTAL TETRA-FURANS		0.771	0.0199		
TOTAL PENTA-FURANS		0.751	0.0406		
TOTAL HEXA-FURANS		1.42	0.0370		
TOTAL HEPTA-FURANS		2.52	0.0509		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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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.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R2-bentnose
Sample Collection:
17-Jun-2008 15:45

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-43
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Jul-2008 **Time:** 05:08:20	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg absolute	**% Moisture:**	82.5
		% Lipid:	0.79

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1310	65.7	0.80	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1450	72.7	0.63	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1480	74.0	1.25	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1490	74.7	1.24	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1380	69.1	1.04	1.094
13C-OCDD		4000	2500	62.6	0.90	1.178
13C-2,3,7,8-TCDF		2000	1350	67.3	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	1330	66.4	1.54	1.288
13C-2,3,4,7,8-PECDF		2000	1340	66.9	1.56	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1500	74.9	0.52	0.955
13C-1,2,3,6,7,8-HXCDF		2000	1530	76.7	0.53	0.959
13C-1,2,3,7,8,9-HXCDF		2000	1420	70.9	0.54	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1460	73.0	0.54	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1390	69.7	0.44	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1340	67.0	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	138	68.8		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-43_Form2_DX82_244S11_SJ881189.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R2-bentnose
Sample Collection:
17-Jun-2008 15:45

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-43
Matrix:	TISSUE	**Sample Size:**	25.1 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 06:13:25	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_137 S: 19**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_137 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	82.5 0.79

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	U		0.0626		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-43_Form1A_DB83_137S19_SJ881711.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R2-bentnose

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

Sample Collection: 17-Jun-2008 15:45

Contract No.: 4406

Project No. FIDALGO BAY TISSUE INVESTIGATION

Matrix: TISSUE

Lab Sample I.D.: L11328-43

Sample Size: 25.1 g (wet)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (wet weight basis)

Sample Data Filenames: **DB83_137 S: 19**
DX82_244 S: 11

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0199	1	0.00e+00	9.95e-03	
1,2,3,7,8-PECDD		0.056	0.0517	1	5.60e-02	5.60e-02	
1,2,3,4,7,8-HXCDD	U		0.0796	0.1	0.00e+00	3.98e-03	
1,2,3,6,7,8-HXCDD		0.323	0.0796	0.1	3.23e-02	3.23e-02	
1,2,3,7,8,9-HXCDD		0.173	0.0796	0.1	1.73e-02	1.73e-02	
1,2,3,4,6,7,8-HPCDD		6.11	0.0446	0.01	6.11e-02	6.11e-02	
OCDD		44.0	0.134	0.0003	1.32e-02	1.32e-02	
2,3,7,8-TCDF	U		0.0626	0.1	0.00e+00	3.13e-03	
1,2,3,7,8-PECDF	U		0.0406	0.03	0.00e+00	6.09e-04	
2,3,4,7,8-PECDF		0.047	0.0406	0.3	1.41e-02	1.41e-02	
1,2,3,4,7,8-HXCDF		0.063	0.0370	0.1	6.30e-03	6.30e-03	
1,2,3,6,7,8-HXCDF		0.044	0.0370	0.1	4.40e-03	4.40e-03	
1,2,3,7,8,9-HXCDF	U		0.0370	0.1	0.00e+00	1.85e-03	
2,3,4,6,7,8-HXCDF		0.050	0.0370	0.1	5.00e-03	5.00e-03	
1,2,3,4,6,7,8-HPCDF		0.838	0.0509	0.01	8.38e-03	8.38e-03	
1,2,3,4,7,8,9-HPCDF	U		0.0509	0.01	0.00e+00	2.55e-04	
OCDF		1.60	0.0394	0.0003	4.80e-04	4.80e-04	
			TOTAL TEQ		0.219	0.238	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-43_TEQ_SJ881711.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R3-bentnose
Sample Collection:
17-Jun-2008 15:45

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-44
Matrix:	TISSUE	**Sample Size:**	25.6 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	13-Jul-2008 **Time:** 04:10:57	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_246 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_246 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	79.3
		% Lipid:	0.51

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.036	0.0195	0.49	1.001
1,2,3,7,8-PECDD [3]	J	0.054	0.0507	0.70	1.001
1,2,3,4,7,8-HXCDD	U		0.0780		
1,2,3,6,7,8-HXCDD	J	0.450	0.0780	1.25	1.000
1,2,3,7,8,9-HXCDD	J	0.220	0.0780	1.15	1.010
1,2,3,4,6,7,8-HPCDD		9.36	0.0437	1.03	1.000
OCDD		61.3	0.131	0.89	1.000
2,3,7,8-TCDF		0.140	0.0195	0.83	1.001
1,2,3,7,8-PECDF	U		0.0398		
2,3,4,7,8-PECDF	J	0.050	0.0398	1.73	1.001
1,2,3,4,7,8-HXCDF	J	0.099	0.0363	1.28	1.000
1,2,3,6,7,8-HXCDF	K J	0.049	0.0363	1.54	1.000
1,2,3,7,8,9-HXCDF	U		0.0363		
2,3,4,6,7,8-HXCDF	J	0.055	0.0363	1.23	1.000
1,2,3,4,6,7,8-HPCDF		1.47	0.0499	1.05	1.000
1,2,3,4,7,8,9-HPCDF	J	0.076	0.0499	1.13	1.000
OCDF		3.52	0.0386	0.90	1.002
TOTAL TETRA-DIOXINS		0.291	0.0195		
TOTAL PENTA-DIOXINS		0.113	0.0507		
TOTAL HEXA-DIOXINS		4.84	0.0780		
TOTAL HEPTA-DIOXINS		49.2	0.0437		
TOTAL TETRA-FURANS		0.709	0.0195		
TOTAL PENTA-FURANS		0.602	0.0398		
TOTAL HEXA-FURANS		1.92	0.0363		
TOTAL HEPTA-FURANS		4.64	0.0499		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R3-bentnose
Sample Collection:
17-Jun-2008 15:45

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-44
Matrix:	TISSUE	**Sample Size:**	25.6 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	13-Jul-2008 **Time:** 04:10:57	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_246 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_246 S: 1
Concentration Units:	pg absolute	**% Moisture:**	79.3
		% Lipid:	0.51

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	1610	80.3	0.78	1.014
13C-1,2,3,7,8-PECDD [4]		2000	1830	91.6	0.63	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1680	84.0	1.27	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1730	86.3	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1480	74.0	1.04	1.094
13C-OCDD		4000	2580	64.5	0.89	1.178
13C-2,3,7,8-TCDF		2000	1620	80.9	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1630	81.3	1.57	1.288
13C-2,3,4,7,8-PECDF		2000	1620	81.2	1.55	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1650	82.4	0.52	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1670	83.7	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1640	81.8	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1620	80.9	0.53	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1480	73.8	0.46	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1450	72.6	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	178	88.9		1.015

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-44_Form2_DX82_246S10_SJ881197.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R3-bentnose
Sample Collection:
17-Jun-2008 15:45

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-44
Matrix:	TISSUE	**Sample Size:**	25.6 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 00:26:38	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_139 S: 9**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_139 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	79.3 0.51

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.094	0.0499	0.73	1.001

(1) Where applicable, custom lab flags have been used on this report; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-44_Form1A_DB83_139S9_SJ881772.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R3-bentnose

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

Sample Collection: 17-Jun-2008 15:45

Contract No.: 4406

Project No. FIDALGO BAY TISSUE INVESTIGATION

Matrix: TISSUE

Lab Sample I.D.: L11328-44

Sample Size: 25.6 g (wet)

GC Column ID(s): DB225
DB5

Concentration Units: pg/g (wet weight basis)

Sample Data Filenames: **DB83_139 S: 9**
DX82_246 S: 10

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0195	1	0.00e+00	9.75e-03	
1,2,3,7,8-PECDD		0.054	0.0507	1	5.40e-02	5.40e-02	
1,2,3,4,7,8-HXCDD	U		0.0780	0.1	0.00e+00	3.90e-03	
1,2,3,6,7,8-HXCDD		0.450	0.0780	0.1	4.50e-02	4.50e-02	
1,2,3,7,8,9-HXCDD		0.220	0.0780	0.1	2.20e-02	2.20e-02	
1,2,3,4,6,7,8-HPCDD		9.36	0.0437	0.01	9.36e-02	9.36e-02	
OCDD		61.3	0.131	0.0003	1.84e-02	1.84e-02	
2,3,7,8-TCDF		0.094	0.0499	0.1	9.40e-03	9.40e-03	
1,2,3,7,8-PECDF	U		0.0398	0.03	0.00e+00	5.97e-04	
2,3,4,7,8-PECDF		0.050	0.0398	0.3	1.50e-02	1.50e-02	
1,2,3,4,7,8-HXCDF		0.099	0.0363	0.1	9.90e-03	9.90e-03	
1,2,3,6,7,8-HXCDF	U		0.0363	0.1	0.00e+00	1.82e-03	
1,2,3,7,8,9-HXCDF	U		0.0363	0.1	0.00e+00	1.82e-03	
2,3,4,6,7,8-HXCDF		0.055	0.0363	0.1	5.50e-03	5.50e-03	
1,2,3,4,6,7,8-HPCDF		1.47	0.0499	0.01	1.47e-02	1.47e-02	
1,2,3,4,7,8,9-HPCDF		0.076	0.0499	0.01	7.60e-04	7.60e-04	
OCDF		3.52	0.0386	0.0003	1.06e-03	1.06e-03	
			TOTAL TEQ		0.289	0.307	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-44_TEQ_SJ881772.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-bentnose
Sample Collection:
17-Jun-2008 15:45

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-45
Matrix:	TISSUE	**Sample Size:**	26.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	13-Jul-2008 **Time:** 05:05:21	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_246 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_246 S: 1
Concentration Units:	pg/g (wet weight basis)	**% Moisture:**	82.2
		% Lipid:	0.95

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.074	0.0193	0.63	1.001
1,2,3,7,8-PECDD [3]	K J	0.236	0.0501	0.50	1.000
1,2,3,4,7,8-HXCDD	J	0.362	0.0770	1.36	1.000
1,2,3,6,7,8-HXCDD		1.48	0.0770	1.34	1.000
1,2,3,7,8,9-HXCDD		0.800	0.0770	1.20	1.010
1,2,3,4,6,7,8-HPCDD		25.7	0.0431	1.05	1.000
OCDD		192	0.130	0.89	1.000
2,3,7,8-TCDF		0.230	0.0675	0.82	1.001
1,2,3,7,8-PECDF	J	0.047	0.0393	1.69	1.000
2,3,4,7,8-PECDF	J	0.084	0.0393	1.42	1.000
1,2,3,4,7,8-HXCDF	J	0.316	0.0358	1.38	1.000
1,2,3,6,7,8-HXCDF	J	0.193	0.0358	1.15	1.000
1,2,3,7,8,9-HXCDF	U		0.0358		
2,3,4,6,7,8-HXCDF	K J	0.217	0.0358	1.01	1.001
1,2,3,4,6,7,8-HPCDF		5.41	0.0493	1.03	1.000
1,2,3,4,7,8,9-HPCDF	J	0.211	0.0493	0.99	1.000
OCDF		9.83	0.0381	0.88	1.002
TOTAL TETRA-DIOXINS		0.716	0.0193		
TOTAL PENTA-DIOXINS		0.500	0.0501		
TOTAL HEXA-DIOXINS		8.28	0.0770		
TOTAL HEPTA-DIOXINS		58.2	0.0431		
TOTAL TETRA-FURANS		1.42	0.0675		
TOTAL PENTA-FURANS		2.32	0.0393		
TOTAL HEXA-FURANS		8.20	0.0358		
TOTAL HEPTA-FURANS		15.9	0.0493		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than LMCL.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-45_Form1A_DX82_246S11_SJ881198.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-bentnose
Sample Collection:
17-Jun-2008 15:45

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-45
Matrix:	TISSUE	**Sample Size:**	26.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	13-Jul-2008 **Time:** 05:05:21	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_246 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_246 S: 1
Concentration Units:	pg absolute	**% Moisture:**	82.2
		% Lipid:	0.95

LABELED COMPOUND	LAB FLAG [1]	SPIKE CONC.	CONC. FOUND	R(%) [2]	ION ABUND. RATIO [3]	RRT [3]
13C-2,3,7,8-TCDD		2000	1400	70.2	0.81	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1560	78.0	0.62	1.387
13C-1,2,3,4,7,8-HXCDD		2000	1430	71.7	1.27	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1540	76.9	1.25	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1370	68.7	1.06	1.094
13C-OCDD		4000	2470	61.7	0.90	1.178
13C-2,3,7,8-TCDF		2000	1420	71.0	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	1390	69.6	1.56	1.289
13C-2,3,4,7,8-PECDF		2000	1420	70.9	1.58	1.356
13C-1,2,3,4,7,8-HXCDF		2000	1460	72.8	0.51	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1530	76.7	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1440	72.1	0.52	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1430	71.3	0.52	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1340	67.2	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1330	66.3	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	150	75.1		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L11328-45_Form2_DX82_246S11_SJ881198.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-bentnose
Sample Collection:
17-Jun-2008 15:45

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	FIDALGO BAY TISSUE INVESTIGATION
Contract No.:	4406	**Lab Sample I.D.:**	L11328-45
Matrix:	TISSUE	**Sample Size:**	26.0 g (wet)
Sample Receipt Date:	24-Jun-2008	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 01:02:13	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_139 S: 10**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_139 S: 2
Concentration Units:	pg/g (wet weight basis)	**% Moisture:** **% Lipid:**	82.2 0.95

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K	0.138	0.0481	0.92	1.000

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L11328-45_Form1A_DB83_139S10_SJ881773.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
A4R1-bentnose

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

		Sample Collection:	17-Jun-2008 15:45
Contract No.:	4406	**Project No.**	FIDALGO BAY TISSUE INVESTIGATION
Matrix:	TISSUE	**Lab Sample I.D.:**	L11328-45
Sample Size:	26.0 g (wet)	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g (wet weight basis)	**Sample Data Filenames:**	**DB83_139 S: 10** **DX82_246 S: 11**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0193	1	0.00e+00	9.65e-03	
1,2,3,7,8-PECDD	U		0.0501	1	0.00e+00	2.51e-02	
1,2,3,4,7,8-HXCDD		0.362	0.0770	0.1	3.62e-02	3.62e-02	
1,2,3,6,7,8-HXCDD		1.48	0.0770	0.1	1.48e-01	1.48e-01	
1,2,3,7,8,9-HXCDD		0.800	0.0770	0.1	8.00e-02	8.00e-02	
1,2,3,4,6,7,8-HPCDD		25.7	0.0431	0.01	2.57e-01	2.57e-01	
OCDD		192	0.130	0.0003	5.76e-02	5.76e-02	
2,3,7,8-TCDF	U		0.0481	0.1	0.00e+00	2.41e-03	
1,2,3,7,8-PECDF		0.047	0.0393	0.03	1.41e-03	1.41e-03	
2,3,4,7,8-PECDF		0.084	0.0393	0.3	2.52e-02	2.52e-02	
1,2,3,4,7,8-HXCDF		0.316	0.0358	0.1	3.16e-02	3.16e-02	
1,2,3,6,7,8-HXCDF		0.193	0.0358	0.1	1.93e-02	1.93e-02	
1,2,3,7,8,9-HXCDF	U		0.0358	0.1	0.00e+00	1.79e-03	
2,3,4,6,7,8-HXCDF	U		0.0358	0.1	0.00e+00	1.79e-03	
1,2,3,4,6,7,8-HPCDF		5.41	0.0493	0.01	5.41e-02	5.41e-02	
1,2,3,4,7,8,9-HPCDF		0.211	0.0493	0.01	2.11e-03	2.11e-03	
OCDF		9.83	0.0381	0.0003	2.95e-03	2.95e-03	
			TOTAL TEQ		0.715	0.756	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613-TEQ_L11328-45_TEQ_SJ881773.html; Workgroup: WG25730; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	N/A
Contract No.:	4406	**Lab Sample I.D.:**	WG25699-101
Matrix:	CORN OIL	**Sample Size:**	25.0 g
Sample Receipt Date:	N/A	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 00:27:43	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_240B S: 4**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_240B S: 4
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_240A S: 1
Concentration Units:	pg/g		

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	U		0.0200		
1,2,3,7,8-PECDD [3]	U		0.0520		
1,2,3,4,7,8-HXCDD	U		0.0800		
1,2,3,6,7,8-HXCDD	U		0.0800		
1,2,3,7,8,9-HXCDD	U		0.0800		
1,2,3,4,6,7,8-HPCDD	U		0.0448		
OCDD	U		0.135		
2,3,7,8-TCDF	U		0.0200		
1,2,3,7,8-PECDF	U		0.0408		
2,3,4,7,8-PECDF	U		0.0408		
1,2,3,4,7,8-HXCDF	U		0.0372		
1,2,3,6,7,8-HXCDF	U		0.0372		
1,2,3,7,8,9-HXCDF	U		0.0372		
2,3,4,6,7,8-HXCDF	U		0.0372		
1,2,3,4,6,7,8-HPCDF	U		0.0512		
1,2,3,4,7,8,9-HPCDF	U		0.0512		
OCDF	U		0.0396		
TOTAL TETRA-DIOXINS	U		0.0200		
TOTAL PENTA-DIOXINS	U		0.0520		
TOTAL HEXA-DIOXINS	U		0.0800		
TOTAL HEPTA-DIOXINS	U		0.0448		
TOTAL TETRA-FURANS	U		0.0200		
TOTAL PENTA-FURANS	U		0.0408		
TOTAL HEXA-FURANS	U		0.0372		
TOTAL HEPTA-FURANS	U		0.0512		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_WG25699-101_Form1A_DX82_240BS4_SJ881233.html; Workgroup: WG25699; Design ID: 883]

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.

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	N/A
Contract No.:	4406	**Lab Sample I.D.:**	WG25699-101
Matrix:	CORN OIL	**Sample Size:**	25.0 g
Sample Receipt Date:	N/A	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 00:27:43	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_240B S: 4**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_240B S: 4
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_240A S: 1
Concentration Units:	pg absolute		

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1400	69.9	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1630	81.6	0.63	1.386
13C-1,2,3,4,7,8-HXCDD		2000	1560	77.8	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1650	82.3	1.24	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1670	83.6	1.04	1.094
13C-OCDD		4000	3340	83.5	0.89	1.178
13C-2,3,7,8-TCDF		2000	1420	71.2	0.79	0.968
13C-1,2,3,7,8-PECDF		2000	1510	75.3	1.56	1.289
13C-2,3,4,7,8-PECDF		2000	1520	75.9	1.56	1.356
13C-1,2,3,4,7,8-HXCDF		2000	1640	81.8	0.52	0.955
13C-1,2,3,6,7,8-HXCDF		2000	1620	81.2	0.53	0.959
13C-1,2,3,7,8,9-HXCDF		2000	1530	76.5	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1570	78.6	0.53	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1570	78.3	0.46	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1610	80.4	0.45	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	147	73.7		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_WG25699-101_Form2_DX82_240BS4_SJ881233.html; Workgroup: WG25699; Design ID: 883]

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.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	N/A
Contract No.:	4406	**Lab Sample I.D.:**	WG25699-101
Matrix:	CORN OIL	**Sample Size:**	25.0 g
Sample Receipt Date:	N/A	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 22:14:07	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_135 S: 5**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_135 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_135 S: 2
Concentration Units:	pg/g		

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	U		0.0208		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_WG25699-101_Form1A_DB83_135S5_SJ881430.html; Workgroup: WG25699; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
Lab Blank

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

		Sample Collection:	N/A
Contract No.:	4406	**Project No.**	N/A
Matrix:	CORN OIL	**Lab Sample I.D.:**	WG25699-101
Sample Size:	25.0 g	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g	**Sample Data Filenames:**	**DB83_135 S: 5** **DX82_240B S: 4**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0200	1	0.00e+00	1.00e-02	
1,2,3,7,8-PECDD	U		0.0520	1	0.00e+00	2.60e-02	
1,2,3,4,7,8-HXCDD	U		0.0800	0.1	0.00e+00	4.00e-03	
1,2,3,6,7,8-HXCDD	U		0.0800	0.1	0.00e+00	4.00e-03	
1,2,3,7,8,9-HXCDD	U		0.0800	0.1	0.00e+00	4.00e-03	
1,2,3,4,6,7,8-HPCDD	U		0.0448	0.01	0.00e+00	2.24e-04	
OCDD	U		0.135	0.0003	0.00e+00	2.03e-05	
2,3,7,8-TCDF	U		0.0208	0.1	0.00e+00	1.04e-03	
1,2,3,7,8-PECDF	U		0.0408	0.03	0.00e+00	6.12e-04	
2,3,4,7,8-PECDF	U		0.0408	0.3	0.00e+00	6.12e-03	
1,2,3,4,7,8-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
1,2,3,6,7,8-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
1,2,3,7,8,9-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
2,3,4,6,7,8-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
1,2,3,4,6,7,8-HPCDF	U		0.0512	0.01	0.00e+00	2.56e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0512	0.01	0.00e+00	2.56e-04	
OCDF	U		0.0396	0.0003	0.00e+00	5.94e-06	
			TOTAL TEQ		0	0.0640	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: TEQ.xsl; Created: 21-Jul-2008 13:57:58; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613-TEQ_WG25699-101_TEQ_SJ881430.html; Workgroup: WG25699; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	N/A
Contract No.:	4406	**Lab Sample I.D.:**	WG25701-101
Matrix:	CORN OIL	**Sample Size:**	25.0 g
Sample Receipt Date:	N/A	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 23:34:06	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_242 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_242 S: 1
Concentration Units:	pg/g		

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	U		0.0200		
1,2,3,7,8-PECDD [3]	U		0.0520		
1,2,3,4,7,8-HXCDD	U		0.0800		
1,2,3,6,7,8-HXCDD	U		0.0800		
1,2,3,7,8,9-HXCDD	U		0.0800		
1,2,3,4,6,7,8-HPCDD	U		0.0448		
OCDD	U		0.135		
2,3,7,8-TCDF	U		0.0200		
1,2,3,7,8-PECDF	U		0.0408		
2,3,4,7,8-PECDF	U		0.0408		
1,2,3,4,7,8-HXCDF	U		0.0372		
1,2,3,6,7,8-HXCDF	U		0.0372		
1,2,3,7,8,9-HXCDF	U		0.0372		
2,3,4,6,7,8-HXCDF	U		0.0372		
1,2,3,4,6,7,8-HPCDF	U		0.0512		
1,2,3,4,7,8,9-HPCDF	U		0.0512		
OCDF	U		0.0396		
TOTAL TETRA-DIOXINS	U		0.0200		
TOTAL PENTA-DIOXINS	U		0.0520		
TOTAL HEXA-DIOXINS	U		0.0800		
TOTAL HEPTA-DIOXINS	U		0.0448		
TOTAL TETRA-FURANS	U		0.0200		
TOTAL PENTA-FURANS	U		0.0408		
TOTAL HEXA-FURANS	U		0.0372		
TOTAL HEPTA-FURANS	U		0.0512		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_WG25701-101_Form1A_DX82_242S5_SJ881171.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	N/A
Contract No.:	4406	**Lab Sample I.D.:**	WG25701-101
Matrix:	CORN OIL	**Sample Size:**	25.0 g
Sample Receipt Date:	N/A	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 23:34:06	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_242 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_242 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_242 S: 1
Concentration Units:	pg absolute		

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1390	69.3	0.79	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1580	78.8	0.63	1.388
13C-1,2,3,4,7,8-HXCDD		2000	1500	74.9	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1590	79.6	1.26	0.990
13C-1,2,3,4,6,7,8-HPCDD		2000	1410	70.5	1.06	1.094
13C-OCDD		4000	2550	63.8	0.90	1.177
13C-2,3,7,8-TCDF		2000	1420	71.2	0.78	0.968
13C-1,2,3,7,8-PECDF		2000	1480	73.8	1.56	1.289
13C-2,3,4,7,8-PECDF		2000	1460	73.2	1.57	1.357
13C-1,2,3,4,7,8-HXCDF		2000	1460	73.2	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1480	74.1	0.53	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1480	74.2	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1550	77.5	0.54	0.980
13C-1,2,3,4,6,7,8-HPCDF		2000	1440	71.8	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1330	66.7	0.45	1.103
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	152	76.1		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 22-Jul-2008 09:09:26; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613DB5_WG25701-101_Form2_DX82_242S5_SJ881171.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	N/A
Contract No.:	4406	**Lab Sample I.D.:**	WG25701-101
Matrix:	CORN OIL	**Sample Size:**	25.0 g
Sample Receipt Date:	N/A	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	26-Jun-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	08-Jul-2008 **Time:** 10:31:44	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_134A S: 5**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_134A S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_134A S: 2
Concentration Units:	pg/g		

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	U		0.0200		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 22-Jul-2008 09:11:10; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613DB225_WG25701-101_Form1A_DB83_134AS5_SJ881636.html; Workgroup: WG25701; Design ID: 883]

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.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
Lab Blank

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

		Sample Collection:	N/A
Contract No.:	4406	**Project No.**	N/A
Matrix:	CORN OIL	**Lab Sample I.D.:**	WG25701-101
Sample Size:	25.0 g	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g	**Sample Data Filenames:**	**DB83_134A S: 5** **DX82_242 S: 5**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0200	1	0.00e+00	1.00e-02	
1,2,3,7,8-PECDD	U		0.0520	1	0.00e+00	2.60e-02	
1,2,3,4,7,8-HXCDD	U		0.0800	0.1	0.00e+00	4.00e-03	
1,2,3,6,7,8-HXCDD	U		0.0800	0.1	0.00e+00	4.00e-03	
1,2,3,7,8,9-HXCDD	U		0.0800	0.1	0.00e+00	4.00e-03	
1,2,3,4,6,7,8-HPCDD	U		0.0448	0.01	0.00e+00	2.24e-04	
OCDD	U		0.135	0.0003	0.00e+00	2.03e-05	
2,3,7,8-TCDF	U		0.0200	0.1	0.00e+00	1.00e-03	
1,2,3,7,8-PECDF	U		0.0408	0.03	0.00e+00	6.12e-04	
2,3,4,7,8-PECDF	U		0.0408	0.3	0.00e+00	6.12e-03	
1,2,3,4,7,8-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
1,2,3,6,7,8-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
1,2,3,7,8,9-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
2,3,4,6,7,8-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
1,2,3,4,6,7,8-HPCDF	U		0.0512	0.01	0.00e+00	2.56e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0512	0.01	0.00e+00	2.56e-04	
OCDF	U		0.0396	0.0003	0.00e+00	5.94e-06	
			TOTAL TEQ		0	0.0639	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: TEQ.xsl; Created: 22-Jul-2008 09:11:43; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613-TEQ_WG25701-101_TEQ_SJ881636.html; Workgroup: WG25701; Design ID: 883]

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AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	N/A
Contract No.:	4406	**Lab Sample I.D.:**	WG25730-101
Matrix:	CORN OIL	**Sample Size:**	25.0 g
Sample Receipt Date:	N/A	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 23:41:57	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg/g		

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	U		0.0200		
1,2,3,7,8-PECDD [3]	U		0.0520		
1,2,3,4,7,8-HXCDD	U		0.0800		
1,2,3,6,7,8-HXCDD	U		0.0800		
1,2,3,7,8,9-HXCDD	U		0.0800		
1,2,3,4,6,7,8-HPCDD	U		0.0448		
OCDD	U		0.135		
2,3,7,8-TCDF	U		0.0200		
1,2,3,7,8-PECDF	U		0.0408		
2,3,4,7,8-PECDF	U		0.0408		
1,2,3,4,7,8-HXCDF	U		0.0372		
1,2,3,6,7,8-HXCDF	U		0.0372		
1,2,3,7,8,9-HXCDF	U		0.0372		
2,3,4,6,7,8-HXCDF	U		0.0372		
1,2,3,4,6,7,8-HPCDF	U		0.0512		
1,2,3,4,7,8,9-HPCDF	U		0.0512		
OCDF	U		0.0396		
TOTAL TETRA-DIOXINS	U		0.0200		
TOTAL PENTA-DIOXINS	U		0.0520		
TOTAL HEXA-DIOXINS	U		0.0800		
TOTAL HEPTA-DIOXINS	U		0.0448		
TOTAL TETRA-FURANS	U		0.0200		
TOTAL PENTA-FURANS	U		0.0408		
TOTAL HEXA-FURANS	U		0.0372		
TOTAL HEPTA-FURANS	U		0.0512		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.
(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 22-Jul-2008 13:33:43; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613DB5_WG25730-101_Form1A_DX82_244S5_SJ881183.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 2

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	N/A
Contract No.:	4406	**Lab Sample I.D.:**	WG25730-101
Matrix:	CORN OIL	**Sample Size:**	25.0 g
Sample Receipt Date:	N/A	**Initial Calibration Date:**	17-Jun-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Jul-2008 **Time:** 23:41:57	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX82_244 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX82_244 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX82_244 S: 1
Concentration Units:	pg absolute		

LABELED COMPOUND	**LAB FLAG [1]**	**SPIKE CONC.**	**CONC. FOUND**	**R(%) [2]**	**ION ABUND. RATIO [3]**	**RRT [3]**
13C-2,3,7,8-TCDD		2000	1530	76.5	0.80	1.015
13C-1,2,3,7,8-PECDD [4]		2000	1700	84.9	0.62	1.385
13C-1,2,3,4,7,8-HXCDD		2000	1660	82.8	1.27	0.987
13C-1,2,3,6,7,8-HXCDD		2000	1720	86.2	1.24	0.989
13C-1,2,3,4,6,7,8-HPCDD		2000	1550	77.6	1.05	1.094
13C-OCDD		4000	2970	74.1	0.89	1.178
13C-2,3,7,8-TCDF		2000	1620	81.0	0.80	0.968
13C-1,2,3,7,8-PECDF		2000	1530	76.3	1.57	1.288
13C-2,3,4,7,8-PECDF		2000	1520	76.0	1.56	1.355
13C-1,2,3,4,7,8-HXCDF		2000	1650	82.5	0.52	0.954
13C-1,2,3,6,7,8-HXCDF		2000	1720	86.1	0.54	0.958
13C-1,2,3,7,8,9-HXCDF		2000	1540	77.0	0.55	1.005
13C-2,3,4,6,7,8-HXCDF		2000	1670	83.4	0.53	0.981
13C-1,2,3,4,6,7,8-HPCDF		2000	1550	77.6	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		2000	1510	75.6	0.44	1.104
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD		200	175	87.4		1.016

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.
(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 22-Jul-2008 13:33:43; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613DB5_WG25730-101_Form2_DX82_244S5_SJ881183.html; Workgroup: WG25730; Design ID: 883]

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.

Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

Form 1A

PCDD/PCDF ANALYSIS REPORT

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

		Project No.	N/A
Contract No.:	4406	**Lab Sample I.D.:**	WG25730-101
Matrix:	CORN OIL	**Sample Size:**	25.0 g
Sample Receipt Date:	N/A	**Initial Calibration Date:**	07-Jul-2008
Extraction Date:	01-Jul-2008	**Instrument ID:**	HR GC/MS
Analysis Date:	10-Jul-2008 **Time:** 09:47:02	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB83_138 S: 5**
Injection Volume (uL):	2.0	**Blank Data Filename:**	DB83_138 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB83_138 S: 2
Concentration Units:	pg/g		

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	U		0.0473		

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_WG25730-101_Form1A_DB83_138S5_SJ881716.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

CLIENT SAMPLE NO.
Lab Blank

PCDD/PCDF ANALYSIS TEQ DATA REPORT

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

		Sample Collection:	N/A
Contract No.:	4406	**Project No.**	N/A
Matrix:	CORN OIL	**Lab Sample I.D.:**	WG25730-101
Sample Size:	25.0 g	**GC Column ID(s):**	DB225 DB5
Concentration Units:	pg/g	**Sample Data Filenames:**	**DB83_138 S: 5** **DX82_244 S: 5**

COMPOUND	LAB FLAG [1]	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ ND=0	TEQ ND=1/2 DL	TEQ ND=DL
2,3,7,8-TCDD	U		0.0200	1	0.00e+00	1.00e-02	
1,2,3,7,8-PECDD	U		0.0520	1	0.00e+00	2.60e-02	
1,2,3,4,7,8-HXCDD	U		0.0800	0.1	0.00e+00	4.00e-03	
1,2,3,6,7,8-HXCDD	U		0.0800	0.1	0.00e+00	4.00e-03	
1,2,3,7,8,9-HXCDD	U		0.0800	0.1	0.00e+00	4.00e-03	
1,2,3,4,6,7,8-HPCDD	U		0.0448	0.01	0.00e+00	2.24e-04	
OCDD	U		0.135	0.0003	0.00e+00	2.03e-05	
2,3,7,8-TCDF	U		0.0473	0.1	0.00e+00	2.37e-03	
1,2,3,7,8-PECDF	U		0.0408	0.03	0.00e+00	6.12e-04	
2,3,4,7,8-PECDF	U		0.0408	0.3	0.00e+00	6.12e-03	
1,2,3,4,7,8-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
1,2,3,6,7,8-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
1,2,3,7,8,9-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
2,3,4,6,7,8-HXCDF	U		0.0372	0.1	0.00e+00	1.86e-03	
1,2,3,4,6,7,8-HPCDF	U		0.0512	0.01	0.00e+00	2.56e-04	
1,2,3,4,7,8,9-HPCDF	U		0.0512	0.01	0.00e+00	2.56e-04	
OCDF	U		0.0396	0.0003	0.00e+00	5.94e-06	
			TOTAL TEQ		0	0.0653	

(1) Where applicable, custom lab flags have been used on this report; U = not detected.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: TEQ.xsl; Created: 22-Jul-2008 13:35:21; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613-TEQ_WG25730-101_TEQ_SJ881716.html; Workgroup: WG25730; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

Form 8A

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

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

Contract No.:	4406	**OPR Data Filename:**	**DX82_256 S: 2**
Matrix:	TISSUE	**Lab Sample I.D.:**	WG25699-102 L
Extraction Date:	26-Jun-2008	**Analysis Date:**	17-Jul-2008 **Time:** 22:38:59

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

COMPOUND	LAB FLAG [1]	ION ABUND. RATIO [2]	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS [3] (ng/mL)	% RECOVERY
2,3,7,8-TCDD		0.76	10.6	10.2	7.10 - 16.7	95.8
1,2,3,7,8-PECDD [4]		0.61	56.6	55.5	39.6 - 80.4	98.1
1,2,3,4,7,8-HXCDD		1.25	59.2	56.4	41.4 - 97.1	95.3
1,2,3,6,7,8-HXCDD		1.25	51.8	51.4	39.4 - 69.4	99.2
1,2,3,7,8,9-HXCDD		1.25	56.7	56.5	36.3 - 91.9	99.7
1,2,3,4,6,7,8-HPCDD		1.05	50.0	47.8	35.0 - 70.0	95.7
OCDD		0.88	108	105	84.2 - 155	97.3
2,3,7,8-TCDF		0.77	10.9	11.0	8.18 - 17.2	101
1,2,3,7,8-PECDF		1.55	50.0	49.2	40.0 - 67.0	98.3
2,3,4,7,8-PECDF		1.53	50.0	49.3	34.0 - 80.0	98.6
1,2,3,4,7,8-HXCDF		1.23	54.4	52.5	39.2 - 72.9	96.5
1,2,3,6,7,8-HXCDF		1.22	50.0	49.6	42.0 - 65.0	99.2
1,2,3,7,8,9-HXCDF		1.25	50.0	49.4	39.0 - 65.0	98.9
2,3,4,6,7,8-HXCDF		1.22	53.1	52.4	37.2 - 82.8	98.6
1,2,3,4,6,7,8-HPCDF		1.03	50.0	51.4	41.0 - 61.0	103
1,2,3,4,7,8,9-HPCDF		1.03	50.0	49.1	39.0 - 69.0	98.3
OCDF		0.90	109	101	68.6 - 185	92.3

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required Ion Abundance Ratios are specified in Table 9, Method 1613.
(3) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under OPR.
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form8A.xsl; Created: 21-Jul-2008 13:55:44; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613DB5_WG25699-102_Form8A_SJ881621.html; Workgroup: WG25699; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

Form 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

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

Contract No.:	4406	**OPR Data Filename:**	**DX82_256 S: 2**
Matrix:	TISSUE	**Lab Sample I.D.:**	WG25699-102 L
Extraction Date:	26-Jun-2008	**Analysis Date:**	17-Jul-2008 **Time:** 22:38:59

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

LABELED COMPOUND	LAB FLAG [1]	ION ABUND. RATIO [2]	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS [3] (ng/mL)	% RECOVERY
13C-2,3,7,8-TCDD		0.79	100	71.5	20.0-175	71.5
13C-1,2,3,7,8-PECDD [4]		0.63	100	84.8	21.0-227	84.8
13C-1,2,3,4,7,8-HXCDD		1.26	100	73.5	21.0-193	73.5
13C-1,2,3,6,7,8-HXCDD		1.24	100	75.4	25.0-163	75.4
13C-1,2,3,4,6,7,8-HPCDD		1.04	100	73.8	26.0-166	73.8
13C-OCDD		0.90	200	128	26.0-397	64.2
13C-2,3,7,8-TCDF		0.78	100	69.1	22.0-152	69.1
13C-1,2,3,7,8-PECDF		1.57	100	76.1	21.0-192	76.1
13C-2,3,4,7,8-PECDF		1.56	100	78.2	13.0-328	78.2
13C-1,2,3,4,7,8-HXCDF		0.51	100	71.9	19.0-202	71.9
13C-1,2,3,6,7,8-HXCDF		0.52	100	71.9	21.0-159	71.9
13C-1,2,3,7,8,9-HXCDF		0.52	100	70.2	17.0-205	70.2
13C-2,3,4,6,7,8-HXCDF		0.52	100	69.2	22.0-176	69.2
13C-1,2,3,4,6,7,8-HPCDF		0.46	100	70.4	21.0-158	70.4
13C-1,2,3,4,7,8,9-HPCDF		0.46	100	67.9	20.0-186	67.9
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD			10.0	8.15	3.10-19.1	81.5

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required Ion Abundance Ratios are specified in Table 9, Method 1613.
(3) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. Labeled compound concentrations limits are based on required percent recovery (Section 15.5, Method 1613).
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form8B.xsl; Created: 21-Jul-2008 13:55:44; Application: XMLTransformer-1.9.10;
Report Filename: 1613_DIOXINS_1613DB5_WG25699-102_Form8B_SJ881621.html; Workgroup: WG25699; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

Form 8A

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

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

Contract No.:	4406	**OPR Data Filename:**	**DX82_242 S: 2**
Matrix:	TISSUE	**Lab Sample I.D.:**	WG25701-102
Extraction Date:	26-Jun-2008	**Analysis Date:**	10-Jul-2008 **Time:** 20:50:57

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

COMPOUND	LAB FLAG [1]	ION ABUND. RATIO [2]	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS [3] (ng/mL)	% RECOVERY
2,3,7,8-TCDD		0.77	10.6	11.0	7.10 - 16.7	104
1,2,3,7,8-PECDD [4]		0.62	56.6	58.7	39.6 - 80.4	104
1,2,3,4,7,8-HXCDD		1.26	59.2	62.5	41.4 - 97.1	106
1,2,3,6,7,8-HXCDD		1.25	51.8	51.8	39.4 - 69.4	99.9
1,2,3,7,8,9-HXCDD		1.25	56.7	58.2	36.3 - 91.9	103
1,2,3,4,6,7,8-HPCDD		1.06	50.0	50.9	35.0 - 70.0	102
OCDD		0.89	108	110	84.2 - 155	102
2,3,7,8-TCDF		0.77	10.9	11.7	8.18 - 17.2	108
1,2,3,7,8-PECDF		1.54	50.0	51.1	40.0 - 67.0	102
2,3,4,7,8-PECDF		1.55	50.0	52.9	34.0 - 80.0	106
1,2,3,4,7,8-HXCDF		1.24	54.4	56.2	39.2 - 72.9	103
1,2,3,6,7,8-HXCDF		1.24	50.0	51.2	42.0 - 65.0	102
1,2,3,7,8,9-HXCDF		1.26	50.0	52.1	39.0 - 65.0	104
2,3,4,6,7,8-HXCDF		1.24	53.1	54.9	37.2 - 82.8	103
1,2,3,4,6,7,8-HPCDF		1.03	50.0	52.5	41.0 - 61.0	105
1,2,3,4,7,8,9-HPCDF		1.02	50.0	51.0	39.0 - 69.0	102
OCDF		0.90	109	109	68.6 - 185	99.9

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required Ion Abundance Ratios are specified in Table 9, Method 1613.
(3) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under OPR.
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_WG25701-102_Form8A_SJ881170.html; Workgroup: WG25701; Design ID: 883]

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

Form 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

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

Contract No.:	4406	**OPR Data Filename:**	**DX82_242 S: 2**
Matrix:	TISSUE	**Lab Sample I.D.:**	WG25701-102
Extraction Date:	26-Jun-2008	**Analysis Date:**	10-Jul-2008 **Time:** 20:50:57

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

LABELED COMPOUND	LAB FLAG [1]	ION ABUND. RATIO [2]	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS [3] (ng/mL)	% RECOVERY
13C-2,3,7,8-TCDD		0.79	100	60.9	20.0-175	60.9
13C-1,2,3,7,8-PECDD [4]		0.63	100	70.2	21.0-227	70.2
13C-1,2,3,4,7,8-HXCDD		1.25	100	67.9	21.0-193	67.9
13C-1,2,3,6,7,8-HXCDD		1.24	100	71.8	25.0-163	71.8
13C-1,2,3,4,6,7,8-HPCDD		1.03	100	68.1	26.0-166	68.1
13C-OCDD		0.91	200	129	26.0-397	64.6
13C-2,3,7,8-TCDF		0.79	100	62.4	22.0-152	62.4
13C-1,2,3,7,8-PECDF		1.56	100	66.3	21.0-192	66.3
13C-2,3,4,7,8-PECDF		1.57	100	68.2	13.0-328	68.2
13C-1,2,3,4,7,8-HXCDF		0.52	100	68.2	19.0-202	68.2
13C-1,2,3,6,7,8-HXCDF		0.53	100	68.9	21.0-159	68.9
13C-1,2,3,7,8,9-HXCDF		0.52	100	68.2	17.0-205	68.2
13C-2,3,4,6,7,8-HXCDF		0.52	100	68.4	22.0-176	68.4
13C-1,2,3,4,6,7,8-HPCDF		0.44	100	66.5	21.0-158	66.5
13C-1,2,3,4,7,8,9-HPCDF		0.45	100	67.5	20.0-186	67.5
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD			10.0	7.30	3.10-19.1	73.0

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required Ion Abundance Ratios are specified in Table 9, Method 1613.
(3) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. Labeled compound concentrations limits are based on required percent recovery (Section 15.5, Method 1613).
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

Form 8A

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

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

Contract No.:	4406	**OPR Data Filename:**	**DX82_244 S: 2**
Matrix:	TISSUE	**Lab Sample I.D.:**	WG25730-102
Extraction Date:	01-Jul-2008	**Analysis Date:**	11-Jul-2008 **Time:** 20:58:48

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

COMPOUND	LAB FLAG [1]	ION ABUND. RATIO [2]	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS [3] (ng/mL)	% RECOVERY
2,3,7,8-TCDD		0.78	10.6	10.6	7.10 - 16.7	100
1,2,3,7,8-PECDD [4]		0.63	56.6	55.7	39.6 - 80.4	98.4
1,2,3,4,7,8-HXCDD		1.24	59.2	57.1	41.4 - 97.1	96.4
1,2,3,6,7,8-HXCDD		1.27	51.8	52.5	39.4 - 69.4	101
1,2,3,7,8,9-HXCDD		1.24	56.7	57.0	36.3 - 91.9	101
1,2,3,4,6,7,8-HPCDD		1.06	50.0	49.2	35.0 - 70.0	98.5
OCDD		0.90	108	107	84.2 - 155	98.9
2,3,7,8-TCDF		0.77	10.9	11.3	8.18 - 17.2	104
1,2,3,7,8-PECDF		1.56	50.0	50.3	40.0 - 67.0	101
2,3,4,7,8-PECDF		1.54	50.0	50.9	34.0 - 80.0	102
1,2,3,4,7,8-HXCDF		1.23	54.4	53.3	39.2 - 72.9	97.9
1,2,3,6,7,8-HXCDF		1.22	50.0	52.4	42.0 - 65.0	105
1,2,3,7,8,9-HXCDF		1.25	50.0	51.0	39.0 - 65.0	102
2,3,4,6,7,8-HXCDF		1.23	53.1	53.7	37.2 - 82.8	101
1,2,3,4,6,7,8-HPCDF		1.02	50.0	51.7	41.0 - 61.0	103
1,2,3,4,7,8,9-HPCDF		1.02	50.0	50.2	39.0 - 69.0	100
OCDF		0.91	109	103	68.6 - 185	94.9

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required Ion Abundance Ratios are specified in Table 9, Method 1613.
(3) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under OPR.
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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Contact: analytical@axys.com

AXYS METHOD MLA-017 Rev 14

Form 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

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

Contract No.:	4406	**OPR Data Filename:**	**DX82_244 S: 2**
Matrix:	TISSUE	**Lab Sample I.D.:**	WG25730-102
Extraction Date:	01-Jul-2008	**Analysis Date:**	11-Jul-2008 **Time:** 20:58:48

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

LABELED COMPOUND	LAB FLAG [1]	ION ABUND. RATIO [2]	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS [3] (ng/mL)	% RECOVERY
13C-2,3,7,8-TCDD		0.81	100	78.7	20.0-175	78.7
13C-1,2,3,7,8-PECDD [4]		0.62	100	85.2	21.0-227	85.2
13C-1,2,3,4,7,8-HXCDD		1.24	100	82.0	21.0-193	82.0
13C-1,2,3,6,7,8-HXCDD		1.24	100	81.0	25.0-163	81.0
13C-1,2,3,4,6,7,8-HPCDD		1.04	100	80.7	26.0-166	80.7
13C-OCDD		0.89	200	160	26.0-397	79.9
13C-2,3,7,8-TCDF		0.78	100	84.7	22.0-152	84.7
13C-1,2,3,7,8-PECDF		1.57	100	78.5	21.0-192	78.5
13C-2,3,4,7,8-PECDF		1.57	100	80.1	13.0-328	80.1
13C-1,2,3,4,7,8-HXCDF		0.53	100	82.1	19.0-202	82.1
13C-1,2,3,6,7,8-HXCDF		0.54	100	79.8	21.0-159	79.8
13C-1,2,3,7,8,9-HXCDF		0.54	100	79.3	17.0-205	79.3
13C-2,3,4,6,7,8-HXCDF		0.53	100	81.2	22.0-176	81.2
13C-1,2,3,4,6,7,8-HPCDF		0.45	100	80.0	21.0-158	80.0
13C-1,2,3,4,7,8,9-HPCDF		0.45	100	81.1	20.0-186	81.1
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD			10.0	8.39	3.10-19.1	83.9

(1) Where applicable, custom lab flags have been used on this report.
(2) Contract-required Ion Abundance Ratios are specified in Table 9, Method 1613.
(3) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. Labeled compound concentrations limits are based on required percent recovery (Section 15.5, Method 1613).
(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

Approved by: _____Teresa Rawsthorne_____ QA/QC Chemist

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