ATTACHMENT 4

Laboratory Data Forms

METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LDW-SS502-010-comp
SAMPLE

Lab Sample ID: QG62A
LIMS ID: 10-1447
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/11/10
Date Received: 01/18/10

Percent Total Solids: 72.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-36-0**	**Antimony**	0.3	**0.9**	
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.3	**24.3**	
3050B	01/25/10	6010B	02/01/10	7440-43-9	Cadmium	0.3	0.3	U
3050B	01/25/10	6010B	02/01/10	**7440-47-3**	**Chromium**	0.7	**18.8**	
3050B	01/25/10	6010B	02/01/10	**7440-48-4**	**Cobalt**	0.4	**5.1**	
3050B	01/25/10	6010B	02/01/10	**7440-50-8**	**Copper**	0.3	**41.3**	
3050B	01/25/10	6010B	02/01/10	**7439-92-1**	**Lead**	3	**50**	
CLP	01/25/10	7471A	01/28/10	7439-97-6	Mercury	0.03	0.03	U
3050B	01/25/10	6010B	02/01/10	**7439-98-7**	**Molybdenum**	0.7	**2.2**	
3050B	01/25/10	6010B	02/01/10	**7440-02-0**	**Nickel**	1	**15**	
3050B	01/25/10	200.8	02/02/10	7782-49-2	Selenium	0.7	0.7	U
3050B	01/25/10	6010B	02/01/10	7440-22-4	Silver	0.4	0.4	U
3050B	01/25/10	200.8	02/02/10	7440-28-0	Thallium	0.3	0.3	U
3050B	01/25/10	6010B	02/01/10	**7440-62-2**	**Vanadium**	0.4	**38.9**	
3050B	01/25/10	6010B	02/01/10	**7440-66-6**	**Zinc**	1	**148**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS502-010-comp
DUPLICATE

Lab Sample ID: QG62A
LIMS ID: 10-1447
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/11/10
Date Received: 01/18/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	200.8	0.9	1.3	36.4%	+/- 0.3	L*
Arsenic	200.8	24.3	26.3	7.9%	+/- 20%	
Cadmium	6010B	0.3 U	0.3 U	0.0%	+/- 0.3	L
Chromium	6010B	18.8	14.5	25.8%	+/- 20%	*
Cobalt	6010B	5.1	4.0	24.2%	+/- 20%	*
Copper	6010B	41.3	33.2	21.7%	+/- 20%	*
Lead	6010B	50	43	15.1%	+/- 20%	
Mercury	7471A	0.03 U	0.03 U	0.0%	+/- 0.03	L
Molybdenum	6010B	2.2	2.2	0.0%	+/- 0.7	L
Nickel	6010B	15	11	30.8%	+/- 20%	*
Selenium	200.8	0.7 U	0.7 U	0.0%	+/- 0.7	L
Silver	6010B	0.4 U	0.4 U	0.0%	+/- 0.4	L
Thallium	200.8	0.3 U	0.3 U	0.0%	+/- 0.3	L
Vanadium	6010B	38.9	29.8	26.5%	+/- 20%	*
Zinc	6010B	148	117	23.4%	+/- 20%	*

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS503-043-comp
SAMPLE

Lab Sample ID: QG62D
LIMS ID: 10-1450
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/11/10
Date Received: 01/18/10

Percent Total Solids: 75.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.3	**9.6**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS508-010
SAMPLE

Lab Sample ID: QG62E
LIMS ID: 10-1451
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/15/09
Date Received: 01/18/10

Percent Total Solids: 42.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.5	**11.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS509-010
SAMPLE

Lab Sample ID: QG62F
LIMS ID: 10-1452
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/15/09
Date Received: 01/18/10

Percent Total Solids: 41.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.5	**18.1**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS523-010
SAMPLE

Lab Sample ID: QG62G
LIMS ID: 10-1453
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/15/09
Date Received: 01/18/10

Percent Total Solids: 75.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.2	**5.1**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS525-010
SAMPLE

Lab Sample ID: QG62H
LIMS ID: 10-1454
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/16/09
Date Received: 01/18/10

Percent Total Solids: 77.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.2	**3.8**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS526-010
SAMPLE

Lab Sample ID: QG62I
LIMS ID: 10-1455
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/16/09
Date Received: 01/18/10

Percent Total Solids: 71.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.3	7.5	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS527-010
SAMPLE

Lab Sample ID: QG62B
LIMS ID: 10-1448
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/17/09
Date Received: 01/18/10

Percent Total Solids: 50.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	7440-36-0	Antimony	0.4	0.4	U
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.4	**18.5**	
3050B	01/25/10	6010B	02/01/10	7440-43-9	Cadmium	0.4	0.4	U
3050B	01/25/10	6010B	02/01/10	**7440-47-3**	**Chromium**	1	**20**	
3050B	01/25/10	6010B	02/01/10	**7440-48-4**	**Cobalt**	0.6	**6.7**	
3050B	01/25/10	6010B	02/01/10	**7440-50-8**	**Copper**	0.4	**31.4**	
3050B	01/25/10	6010B	02/01/10	**7439-92-1**	**Lead**	4	**10**	
CLP	01/25/10	7471A	01/28/10	**7439-97-6**	**Mercury**	0.04	**0.09**	
3050B	01/25/10	6010B	02/01/10	7439-98-7	Molybdenum	1	1	U
3050B	01/25/10	6010B	02/01/10	**7440-02-0**	**Nickel**	2	**16**	
3050B	01/25/10	200.8	02/02/10	7782-49-2	Selenium	0.9	0.9	U
3050B	01/25/10	6010B	02/01/10	7440-22-4	Silver	0.6	0.6	U
3050B	01/25/10	200.8	02/02/10	7440-28-0	Thallium	0.4	0.4	U
3050B	01/25/10	6010B	02/01/10	**7440-62-2**	**Vanadium**	0.6	**46.9**	
3050B	01/25/10	6010B	02/01/10	**7440-66-6**	**Zinc**	2	**62**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LDW-SS603-010
SAMPLE

Lab Sample ID: QG62C
LIMS ID: 10-1449
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/17/09
Date Received: 01/18/10

Percent Total Solids: 49.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	7440-36-0	Antimony	0.4	0.4	U
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.4	**16.7**	
3050B	01/25/10	6010B	02/01/10	7440-43-9	Cadmium	0.4	0.4	U
3050B	01/25/10	6010B	02/01/10	**7440-47-3**	**Chromium**	0.9	**25.8**	
3050B	01/25/10	6010B	02/01/10	**7440-48-4**	**Cobalt**	0.6	**8.6**	
3050B	01/25/10	6010B	02/01/10	**7440-50-8**	**Copper**	0.4	**39.7**	
3050B	01/25/10	6010B	02/01/10	**7439-92-1**	**Lead**	4	**15**	
CLP	01/25/10	7471A	01/28/10	**7439-97-6**	**Mercury**	0.04	**0.10**	
3050B	01/25/10	6010B	02/01/10	7439-98-7	Molybdenum	0.9	0.9	U
3050B	01/25/10	6010B	02/01/10	**7440-02-0**	**Nickel**	2	**21**	
3050B	01/25/10	200.8	02/02/10	7782-49-2	Selenium	1	1	U
3050B	01/25/10	6010B	02/01/10	7440-22-4	Silver	0.6	0.6	U
3050B	01/25/10	200.8	02/02/10	7440-28-0	Thallium	0.4	0.4	U
3050B	01/25/10	6010B	02/01/10	**7440-62-2**	**Vanadium**	0.6	**60.7**	
3050B	01/25/10	6010B	02/01/10	**7440-66-6**	**Zinc**	2	**80**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LDW-SS529-041-comp
SAMPLE

Lab Sample ID: QG62J
LIMS ID: 10-1456
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/11/10
Date Received: 01/18/10

Percent Total Solids: 74.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.3	**93.8**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS530-010
SAMPLE

Lab Sample ID: QG62K
LIMS ID: 10-1457
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/15/09
Date Received: 01/18/10

Percent Total Solids: 61.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.3	**19.1**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS531-010-comp
SAMPLE

Lab Sample ID: QG62L
LIMS ID: 10-1469
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/12/10
Date Received: 01/18/10

Percent Total Solids: 77.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.2	**6.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS533-043-comp
SAMPLE

Lab Sample ID: QG62M
LIMS ID: 10-1470
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/12/10
Date Received: 01/18/10

Percent Total Solids: 73.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.3	**4.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS544-010-comp
SAMPLE

Lab Sample ID: QG62N
LIMS ID: 10-1471
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/12/10
Date Received: 01/18/10

Percent Total Solids: 62.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.3	**6.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS547-010
SAMPLE

Lab Sample ID: QG62O
LIMS ID: 10-1472
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/11/10
Date Received: 01/18/10

Percent Total Solids: 54.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/25/10	200.8	02/02/10	**7440-38-2**	**Arsenic**	0.4	**8.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS527-RB
SAMPLE

Lab Sample ID: QC19H
LIMS ID: 09-31229
Matrix: Water
Data Release Authorized:
Reported: 12/30/09

QC Report No: QC19-Windward Environmental, LLC
Project: LDW Dioxin Sampling
04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	12/23/09	200.8	12/29/09	7440-36-0	Antimony	0.2	0.2	U
200.8	12/23/09	200.8	12/29/09	7440-38-2	Arsenic	0.2	0.2	U
200.8	12/23/09	200.8	12/29/09	7440-43-9	Cadmium	0.2	0.2	U
200.8	12/23/09	200.8	12/29/09	7440-47-3	Chromium	0.5	0.5	U
200.8	12/23/09	200.8	12/29/09	7440-48-4	Cobalt	0.2	0.2	U
200.8	12/23/09	200.8	12/29/09	7440-50-8	Copper	0.5	0.5	U
200.8	12/23/09	200.8	12/29/09	7439-92-1	Lead	1	1	U
7470A	12/23/09	7470A	12/26/09	7439-97-6	Mercury	0.1	0.1	U
200.8	12/23/09	200.8	12/29/09	7439-98-7	Molybdenum	0.2	0.2	U
200.8	12/23/09	200.8	12/29/09	7440-02-0	Nickel	0.5	0.5	U
200.8	12/23/09	200.8	12/29/09	7782-49-2	Selenium	0.5	0.5	U
200.8	12/23/09	200.8	12/29/09	7440-22-4	Silver	0.2	0.2	U
200.8	12/23/09	200.8	12/29/09	7440-28-0	Thallium	0.2	0.2	U
200.8	12/23/09	200.8	12/29/09	7440-62-2	Vanadium	0.2	0.2	U
200.8	12/23/09	200.8	12/29/09	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LDW-SS527-RB DUPLICATE

Lab Sample ID: QC19H
LIMS ID: 09-31229
Matrix: Water
Data Release Authorized:
Reported: 12/30/09

QC Report No: QC19-Windward Environmental, LLC
Project: LDW Dioxin Sampling 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Arsenic	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Cadmium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Chromium	200.8	0.5 U	0.5 U	0.0%	+/- 0.5	L
Cobalt	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Copper	200.8	0.5 U	0.5 U	0.0%	+/- 0.5	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Mercury	7470A	0.1 U	0.1 U	0.0%	+/- 0.1	L
Molybdenum	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Nickel	200.8	0.5 U	0.5 U	0.0%	+/- 0.5	L
Selenium	200.8	0.5 U	0.5 U	0.0%	+/- 0.5	L
Silver	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Thallium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Vanadium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Zinc	200.8	4 U	4 U	0.0%	+/- 4	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

PAHs (SIM)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: LDW-SS503-043-comp
SAMPLE

Lab Sample ID: QG62D
LIMS ID: 10-1450
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 19:10
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.9 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.4%

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	4.6	38	
91-57-6	2-Methylnaphthalene	4.6	22	
90-12-0	1-Methylnaphthalene	4.6	31	
208-96-8	Acenaphthylene	4.6	46	
83-32-9	Acenaphthene	4.6	28	
86-73-7	Fluorene	4.6	47	
85-01-8	Phenanthrene	4.6	300	
120-12-7	Anthracene	4.6	84	
206-44-0	Fluoranthene	4.6	900	E
129-00-0	Pyrene	4.6	620	E
56-55-3	Benzo(a)anthracene	4.6	260	
218-01-9	Chrysene	4.6	390	
205-99-2	Benzo(b)fluoranthene	4.6	210	
207-08-9	Benzo(k)fluoranthene	4.6	210	
50-32-8	Benzo(a)pyrene	4.6	290	
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	150	
53-70-3	Dibenz(a,h)anthracene	4.6	45	
191-24-2	Benzo(g,h,i)perylene	4.6	180	
132-64-9	Dibenzofuran	4.6	13	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	72.3%
d14-Dibenzo(a,h)anthracen	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: LDW-SS503-043-comp
DILUTION

Lab Sample ID: QG62D
LIMS ID: 10-1450
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 16:14
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.9 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 24.4%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	23	41
91-57-6	2-Methylnaphthalene	23	23
90-12-0	1-Methylnaphthalene	23	34
208-96-8	Acenaphthylene	23	46
83-32-9	Acenaphthene	23	32
86-73-7	Fluorene	23	32
85-01-8	Phenanthrene	23	290
120-12-7	Anthracene	23	73
206-44-0	Fluoranthene	23	870
129-00-0	Pyrene	23	640
56-55-3	Benzo(a)anthracene	23	250
218-01-9	Chrysene	23	400
205-99-2	Benzo(b)fluoranthene	23	180
207-08-9	Benzo(k)fluoranthene	23	220
50-32-8	Benzo(a)pyrene	23	270
193-39-5	Indeno(1,2,3-cd)pyrene	23	150
53-70-3	Dibenz(a,h)anthracene	23	25
191-24-2	Benzo(g,h,i)perylene	23	190
132-64-9	Dibenzofuran	23	< 23 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	73.3%
d14-Dibenzo(a,h)anthracen	85.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: LDW-SS508-010
SAMPLE

Lab Sample ID: QG62E
LIMS ID: 10-1451
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 12/15/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 19:31
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 58.4%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.8	< 4.8 U
91-57-6	2-Methylnaphthalene	4.8	< 4.8 U
90-12-0	1-Methylnaphthalene	4.8	< 4.8 U
208-96-8	Acenaphthylene	4.8	< 4.8 U
83-32-9	Acenaphthene	4.8	< 4.8 U
86-73-7	Fluorene	4.8	< 4.8 U
85-01-8	Phenanthrene	4.8	< 4.8 U
120-12-7	Anthracene	4.8	< 4.8 U
206-44-0	Fluoranthene	4.8	< 4.8 U
129-00-0	Pyrene	4.8	< 4.8 U
56-55-3	Benzo(a)anthracene	4.8	< 4.8 U
218-01-9	Chrysene	4.8	< 4.8 U
205-99-2	Benzo(b)fluoranthene	4.8	< 4.8 U
207-08-9	Benzo(k)fluoranthene	4.8	< 4.8 U
50-32-8	Benzo(a)pyrene	4.8	< 4.8 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	< 4.8 U
53-70-3	Dibenz(a,h)anthracene	4.8	< 4.8 U
191-24-2	Benzo(g,h,i)perylene	4.8	< 4.8 U
132-64-9	Dibenzofuran	4.8	< 4.8 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	65.3%
d14-Dibenzo(a,h)anthracen	86.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: LDW-SS509-010
SAMPLE

Lab Sample ID: QG62F
LIMS ID: 10-1452
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 12/15/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 19:52
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 3.26 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 58.2%

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	15	92	
91-57-6	2-Methylnaphthalene	15	58	
90-12-0	1-Methylnaphthalene	15	55	
208-96-8	Acenaphthylene	15	290	
83-32-9	Acenaphthene	15	92	
86-73-7	Fluorene	15	200	
85-01-8	Phenanthrene	15	2,400	E
120-12-7	Anthracene	15	740	
206-44-0	Fluoranthene	15	4,400	E
129-00-0	Pyrene	15	4,100	E
56-55-3	Benzo(a)anthracene	15	2,000	E
218-01-9	Chrysene	15	3,100	E
205-99-2	Benzo(b)fluoranthene	15	1,800	E
207-08-9	Benzo(k)fluoranthene	15	1,800	E
50-32-8	Benzo(a)pyrene	15	2,400	E
193-39-5	Indeno(1,2,3-cd)pyrene	15	1,200	
53-70-3	Dibenz(a,h)anthracene	15	500	
191-24-2	Benzo(g,h,i)perylene	15	1,400	
132-64-9	Dibenzofuran	15	75	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	78.3%
d14-Dibenzo(a,h)anthracen	108%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: LDW-SS509-010
DILUTION

Lab Sample ID: QG62F
LIMS ID: 10-1452
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 12/15/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 16:35
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 3.26 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 58.2%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**77**	**84**
91-57-6	2-Methylnaphthalene	77	< 77 U
90-12-0	1-Methylnaphthalene	77	< 77 U
208-96-8	**Acenaphthylene**	**77**	**270**
83-32-9	**Acenaphthene**	**77**	**100**
86-73-7	**Fluorene**	**77**	**170**
85-01-8	**Phenanthrene**	**77**	**2,200**
120-12-7	**Anthracene**	**77**	**640**
206-44-0	**Fluoranthene**	**77**	**4,100**
129-00-0	**Pyrene**	**77**	**4,000**
56-55-3	**Benzo(a)anthracene**	**77**	**1,800**
218-01-9	**Chrysene**	**77**	**2,600**
205-99-2	**Benzo(b)fluoranthene**	**77**	**1,600**
207-08-9	**Benzo(k)fluoranthene**	**77**	**1,600**
50-32-8	**Benzo(a)pyrene**	**77**	**2,100**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**77**	**1,200**
53-70-3	**Dibenz(a,h)anthracene**	**77**	**380**
191-24-2	**Benzo(g,h,i)perylene**	**77**	**1,400**
132-64-9	Dibenzofuran	77	< 77 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	66.7%
d14-Dibenzo(a,h)anthracen	81.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: LDW-SS523-010
SAMPLE

Lab Sample ID: QG62G
LIMS ID: 10-1453
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 12/15/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 20:13
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 21.6%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**4.8**	**5.7**
91-57-6	2-Methylnaphthalene	4.8	< 4.8 U
90-12-0	1-Methylnaphthalene	4.8	< 4.8 U
208-96-8	**Acenaphthylene**	**4.8**	**9.5**
83-32-9	**Acenaphthene**	**4.8**	**4.8**
86-73-7	**Fluorene**	**4.8**	**6.2**
85-01-8	**Phenanthrene**	**4.8**	**42**
120-12-7	**Anthracene**	**4.8**	**22**
206-44-0	**Fluoranthene**	**4.8**	**150**
129-00-0	**Pyrene**	**4.8**	**90**
56-55-3	**Benzo(a)anthracene**	**4.8**	**65**
218-01-9	**Chrysene**	**4.8**	**150**
205-99-2	**Benzo(b)fluoranthene**	**4.8**	**85**
207-08-9	**Benzo(k)fluoranthene**	**4.8**	**85**
50-32-8	**Benzo(a)pyrene**	**4.8**	**72**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.8**	**49**
53-70-3	**Dibenz(a,h)anthracene**	**4.8**	**17**
191-24-2	**Benzo(g,h,i)perylene**	**4.8**	**66**
132-64-9	Dibenzofuran	4.8	< 4.8 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	67.0%
d14-Dibenzo(a,h)anthracen	91.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: LDW-SS601-010-010
SAMPLE

Lab Sample ID: QG62P
LIMS ID: 10-1473
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 12/15/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 23:21
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.5%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.8	< 4.8 U
91-57-6	2-Methylnaphthalene	4.8	< 4.8 U
90-12-0	1-Methylnaphthalene	4.8	< 4.8 U
208-96-8	**Acenaphthylene**	**4.8**	**10**
83-32-9	**Acenaphthene**	**4.8**	**6.3**
86-73-7	**Fluorene**	**4.8**	**6.3**
85-01-8	**Phenanthrene**	**4.8**	**81**
120-12-7	**Anthracene**	**4.8**	**32**
206-44-0	**Fluoranthene**	**4.8**	**230**
129-00-0	**Pyrene**	**4.8**	**150**
56-55-3	**Benzo(a)anthracene**	**4.8**	**94**
218-01-9	**Chrysene**	**4.8**	**180**
205-99-2	**Benzo(b)fluoranthene**	**4.8**	**110**
207-08-9	**Benzo(k)fluoranthene**	**4.8**	**110**
50-32-8	**Benzo(a)pyrene**	**4.8**	**110**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.8**	**68**
53-70-3	**Dibenz(a,h)anthracene**	**4.8**	**26**
191-24-2	**Benzo(g,h,i)perylene**	**4.8**	**81**
132-64-9	Dibenzofuran	4.8	< 4.8 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.7%
d14-Dibenzo(a,h)anthracen	95.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: LDW-SS525-010
SAMPLE

Lab Sample ID: QG62H
LIMS ID: 10-1454
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 12/16/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 20:34
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.4 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.2%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.8	< 4.8 U
91-57-6	2-Methylnaphthalene	4.8	< 4.8 U
90-12-0	1-Methylnaphthalene	4.8	< 4.8 U
208-96-8	Acenaphthylene	4.8	< 4.8 U
83-32-9	**Acenaphthene**	**4.8**	**4.8**
86-73-7	**Fluorene**	**4.8**	**5.3**
85-01-8	**Phenanthrene**	**4.8**	**43**
120-12-7	**Anthracene**	**4.8**	**7.7**
206-44-0	**Fluoranthene**	**4.8**	**88**
129-00-0	**Pyrene**	**4.8**	**51**
56-55-3	**Benzo(a)anthracene**	**4.8**	**27**
218-01-9	**Chrysene**	**4.8**	**51**
205-99-2	**Benzo(b)fluoranthene**	**4.8**	**29**
207-08-9	**Benzo(k)fluoranthene**	**4.8**	**29**
50-32-8	**Benzo(a)pyrene**	**4.8**	**24**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.8**	**14**
53-70-3	**Dibenz(a,h)anthracene**	**4.8**	**5.8**
191-24-2	**Benzo(g,h,i)perylene**	**4.8**	**15**
132-64-9	**Dibenzofuran**	**4.8**	**4.8**

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	65.3%
d14-Dibenzo(a,h)anthracen	86.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: LDW-SS526-010
SAMPLE

Lab Sample ID: QG62I
LIMS ID: 10-1455
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 12/16/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 20:55
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.6 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 32.0%

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	4.7	5.7	
91-57-6	2-Methylnaphthalene	4.7	11	
90-12-0	1-Methylnaphthalene	4.7	9.0	
208-96-8	Acenaphthylene	4.7	13	
83-32-9	Acenaphthene	4.7	26	
86-73-7	Fluorene	4.7	27	
85-01-8	Phenanthrene	4.7	350	
120-12-7	Anthracene	4.7	100	
206-44-0	Fluoranthene	4.7	930	E
129-00-0	Pyrene	4.7	520	E
56-55-3	Benzo(a)anthracene	4.7	310	
218-01-9	Chrysene	4.7	510	E
205-99-2	Benzo(b)fluoranthene	4.7	290	
207-08-9	Benzo(k)fluoranthene	4.7	290	
50-32-8	Benzo(a)pyrene	4.7	320	
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	170	
53-70-3	Dibenz(a,h)anthracene	4.7	70	
191-24-2	Benzo(g,h,i)perylene	4.7	190	
132-64-9	Dibenzofuran	4.7	15	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	75.0%
d14-Dibenzo(a,h)anthracen	97.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: LDW-SS526-010
DILUTION

Lab Sample ID: QG62I
LIMS ID: 10-1455
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 12/16/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 16:56
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.6 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 32.0%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	24	< 24 U
91-57-6	2-Methylnaphthalene	24	< 24 U
90-12-0	1-Methylnaphthalene	24	< 24 U
208-96-8	Acenaphthylene	24	< 24 U
83-32-9	**Acenaphthene**	**24**	**26**
86-73-7	**Fluorene**	**24**	**26**
85-01-8	**Phenanthrene**	**24**	**340**
120-12-7	**Anthracene**	**24**	**97**
206-44-0	**Fluoranthene**	**24**	**900**
129-00-0	**Pyrene**	**24**	**570**
56-55-3	**Benzo(a)anthracene**	**24**	**300**
218-01-9	**Chrysene**	**24**	**500**
205-99-2	**Benzo(b)fluoranthene**	**24**	**270**
207-08-9	**Benzo(k)fluoranthene**	**24**	**270**
50-32-8	**Benzo(a)pyrene**	**24**	**300**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**24**	**160**
53-70-3	**Dibenz(a,h)anthracene**	**24**	**76**
191-24-2	**Benzo(g,h,i)perylene**	**24**	**200**
132-64-9	Dibenzofuran	24	< 24 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	65.0%
d14-Dibenzo(a,h)anthracen	96.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: LDW-SS529-041-comp
SAMPLE

Lab Sample ID: QG62J
LIMS ID: 10-1456
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 21:16
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.9 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 25.1%

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	4.6	62	
91-57-6	2-Methylnaphthalene	4.6	29	
90-12-0	1-Methylnaphthalene	4.6	26	
208-96-8	Acenaphthylene	4.6	15	
83-32-9	Acenaphthene	4.6	330	
86-73-7	Fluorene	4.6	300	
85-01-8	Phenanthrene	4.6	2,800	E
120-12-7	Anthracene	4.6	2,100	E
206-44-0	Fluoranthene	4.6	13,000	E
129-00-0	Pyrene	4.6	10,000	E
56-55-3	Benzo(a)anthracene	4.6	8,300	E
218-01-9	Chrysene	4.6	7,500	E
205-99-2	Benzo(b)fluoranthene	4.6	3,400	E
207-08-9	Benzo(k)fluoranthene	4.6	3,400	E
50-32-8	Benzo(a)pyrene	4.6	4,400	E
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	1,600	E
53-70-3	Dibenz(a,h)anthracene	4.6	1,100	E
191-24-2	Benzo(g,h,i)perylene	4.6	1,600	E
132-64-9	Dibenzofuran	4.6	120	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	73.7%
d14-Dibenzo(a,h)anthracen	74.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: LDW-SS529-041-comp
DILUTION

Lab Sample ID: QG62J
LIMS ID: 10-1456
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 17:17
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.9 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 50.0
Percent Moisture: 25.1%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	230	< 230 U
91-57-6	2-Methylnaphthalene	230	< 230 U
90-12-0	1-Methylnaphthalene	230	< 230 U
208-96-8	Acenaphthylene	230	< 230 U
83-32-9	**Acenaphthene**	**230**	**340**
86-73-7	**Fluorene**	**230**	**300**
85-01-8	**Phenanthrene**	**230**	**2,600**
120-12-7	**Anthracene**	**230**	**2,000**
206-44-0	**Fluoranthene**	**230**	**16,000**
129-00-0	**Pyrene**	**230**	**12,000**
56-55-3	**Benzo(a)anthracene**	**230**	**7,500**
218-01-9	**Chrysene**	**230**	**7,900**
205-99-2	**Benzo(b)fluoranthene**	**230**	**3,900**
207-08-9	**Benzo(k)fluoranthene**	**230**	**3,900**
50-32-8	**Benzo(a)pyrene**	**230**	**4,900**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**230**	**2,000**
53-70-3	**Dibenz(a,h)anthracene**	**230**	**870**
191-24-2	**Benzo(g,h,i)perylene**	**230**	**2,200**
132-64-9	Dibenzofuran	230	< 230 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	D
d14-Dibenzo(a,h)anthracen	D

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: LDW-SS530-010
SAMPLE

Lab Sample ID: QG62K
LIMS ID: 10-1457
Matrix: Sediment
Data Release Authorized: 
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 12/15/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 21:36
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 36.4%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.8	1,100 E
91-57-6	2-Methylnaphthalene	4.8	680 E
90-12-0	1-Methylnaphthalene	4.8	540 E
208-96-8	Acenaphthylene	4.8	150
83-32-9	Acenaphthene	4.8	1,000 E
86-73-7	Fluorene	4.8	930 E
85-01-8	Phenanthrene	4.8	7,700 E
120-12-7	Anthracene	4.8	2,000 E
206-44-0	Fluoranthene	4.8	8,300 E
129-00-0	Pyrene	4.8	7,100 E
56-55-3	Benzo(a)anthracene	4.8	3,400 E
218-01-9	Chrysene	4.8	4,200 E
205-99-2	Benzo(b)fluoranthene	4.8	2,100 E
207-08-9	Benzo(k)fluoranthene	4.8	2,100 E
50-32-8	Benzo(a)pyrene	4.8	3,200 E
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	1,500 E
53-70-3	Dibenz(a,h)anthracene	4.8	640 E
191-24-2	Benzo(g,h,i)perylene	4.8	1,900 E
132-64-9	Dibenzofuran	4.8	460

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	76.3%
d14-Dibenzo(a,h)anthracen	83.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: LDW-SS530-010
DILUTION

Lab Sample ID: QG62K
LIMS ID: 10-1457
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 12/15/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 17:38
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 50.0
Percent Moisture: 36.4%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	240	1,000
91-57-6	**2-Methylnaphthalene**	240	660
90-12-0	**1-Methylnaphthalene**	240	560
208-96-8	Acenaphthylene	240	< 240 U
83-32-9	**Acenaphthene**	240	970
86-73-7	**Fluorene**	240	820
85-01-8	**Phenanthrene**	240	7,100
120-12-7	**Anthracene**	240	1,800
206-44-0	**Fluoranthene**	240	8,100
129-00-0	**Pyrene**	240	7,400
56-55-3	**Benzo(a)anthracene**	240	3,100
218-01-9	**Chrysene**	240	3,800
205-99-2	**Benzo(b)fluoranthene**	240	2,200
207-08-9	**Benzo(k)fluoranthene**	240	2,200
50-32-8	**Benzo(a)pyrene**	240	3,200
193-39-5	**Indeno(1,2,3-cd)pyrene**	240	1,600
53-70-3	**Dibenz(a,h)anthracene**	240	580
191-24-2	**Benzo(g,h,i)perylene**	240	2,300
132-64-9	**Dibenzofuran**	240	360

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	D
d14-Dibenzo(a,h)anthracen	D

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: LDW-SS531-010-comp
SAMPLE

Lab Sample ID: QG62L
LIMS ID: 10-1469
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/12/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 21:57
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.4%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.9	< 4.9 U
91-57-6	2-Methylnaphthalene	4.9	< 4.9 U
90-12-0	1-Methylnaphthalene	4.9	< 4.9 U
208-96-8	**Acenaphthylene**	**4.9**	**22**
83-32-9	Acenaphthene	4.9	< 4.9 U
86-73-7	Fluorene	4.9	< 4.9 U
85-01-8	**Phenanthrene**	**4.9**	**30**
120-12-7	**Anthracene**	**4.9**	**30**
206-44-0	**Fluoranthene**	**4.9**	**100**
129-00-0	**Pyrene**	**4.9**	**67**
56-55-3	**Benzo(a)anthracene**	**4.9**	**48**
218-01-9	**Chrysene**	**4.9**	**67**
205-99-2	**Benzo(b)fluoranthene**	**4.9**	**48**
207-08-9	**Benzo(k)fluoranthene**	**4.9**	**48**
50-32-8	**Benzo(a)pyrene**	**4.9**	**51**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.9**	**41**
53-70-3	**Dibenz(a,h)anthracene**	**4.9**	**15**
191-24-2	**Benzo(g,h,i)perylene**	**4.9**	**68**
132-64-9	Dibenzofuran	4.9	< 4.9 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	67.7%
d14-Dibenzo(a,h)anthracen	92.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: LDW-SS533-043-comp
SAMPLE

Lab Sample ID: QG62M
LIMS ID: 10-1470
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/12/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 22:18
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.7 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 28.8%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.7	< 4.7 U
91-57-6	**2-Methylnaphthalene**	**4.7**	**5.1**
90-12-0	1-Methylnaphthalene	4.7	< 4.7 U
208-96-8	Acenaphthylene	4.7	< 4.7 U
83-32-9	**Acenaphthene**	**4.7**	**7.5**
86-73-7	**Fluorene**	**4.7**	**4.7**
85-01-8	**Phenanthrene**	**4.7**	**32**
120-12-7	**Anthracene**	**4.7**	**12**
206-44-0	**Fluoranthene**	**4.7**	**88**
129-00-0	**Pyrene**	**4.7**	**79**
56-55-3	**Benzo(a)anthracene**	**4.7**	**36**
218-01-9	**Chrysene**	**4.7**	**51**
205-99-2	**Benzo(b)fluoranthene**	**4.7**	**36**
207-08-9	**Benzo(k)fluoranthene**	**4.7**	**36**
50-32-8	**Benzo(a)pyrene**	**4.7**	**42**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.7**	**27**
53-70-3	**Dibenz(a,h)anthracene**	**4.7**	**12**
191-24-2	**Benzo(g,h,i)perylene**	**4.7**	**34**
132-64-9	Dibenzofuran	4.7	< 4.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	66.7%
d14-Dibenzo(a,h)anthracen	91.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: LDW-SS544-010-comp
SAMPLE

Lab Sample ID: QG62N
LIMS ID: 10-1471
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/12/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 22:39
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 39.3%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.8	< 4.8 U
91-57-6	2-Methylnaphthalene	4.8	< 4.8 U
90-12-0	1-Methylnaphthalene	4.8	< 4.8 U
208-96-8	Acenaphthylene	4.8	< 4.8 U
83-32-9	Acenaphthene	4.8	< 4.8 U
86-73-7	Fluorene	4.8	< 4.8 U
85-01-8	**Phenanthrene**	**4.8**	**17**
120-12-7	**Anthracene**	**4.8**	**4.8**
206-44-0	**Fluoranthene**	**4.8**	**44**
129-00-0	**Pyrene**	**4.8**	**32**
56-55-3	**Benzo(a)anthracene**	**4.8**	**16**
218-01-9	**Chrysene**	**4.8**	**23**
205-99-2	**Benzo(b)fluoranthene**	**4.8**	**20**
207-08-9	**Benzo(k)fluoranthene**	**4.8**	**20**
50-32-8	**Benzo(a)pyrene**	**4.8**	**19**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.8**	**14**
53-70-3	**Dibenz(a,h)anthracene**	**4.8**	**5.7**
191-24-2	**Benzo(g,h,i)perylene**	**4.8**	**20**
132-64-9	Dibenzofuran	4.8	< 4.8 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	67.0%
d14-Dibenzo(a,h)anthracen	95.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: LDW-SS547-010
SAMPLE

Lab Sample ID: QG620
LIMS ID: 10-1472
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 23:00
Instrument/Analyst: NT8/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.7 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 48.0%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.7	< 4.7 U
91-57-6	2-Methylnaphthalene	4.7	< 4.7 U
90-12-0	1-Methylnaphthalene	4.7	< 4.7 U
208-96-8	Acenaphthylene	4.7	< 4.7 U
83-32-9	Acenaphthene	4.7	< 4.7 U
86-73-7	Fluorene	4.7	< 4.7 U
85-01-8	**Phenanthrene**	**4.7**	**50**
120-12-7	**Anthracene**	**4.7**	**11**
206-44-0	**Fluoranthene**	**4.7**	**170**
129-00-0	**Pyrene**	**4.7**	**120**
56-55-3	**Benzo(a)anthracene**	**4.7**	**62**
218-01-9	**Chrysene**	**4.7**	**92**
205-99-2	**Benzo(b)fluoranthene**	**4.7**	**71**
207-08-9	**Benzo(k)fluoranthene**	**4.7**	**71**
50-32-8	**Benzo(a)pyrene**	**4.7**	**77**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.7**	**51**
53-70-3	**Dibenz(a,h)anthracene**	**4.7**	**25**
191-24-2	**Benzo(g,h,i)perylene**	**4.7**	**63**
132-64-9	Dibenzofuran	4.7	< 4.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	64.7%
d14-Dibenzo(a,h)anthracen	88.7%

SVOCS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: LDW-SS502-010-comp
SAMPLE

Lab Sample ID: QG62A
LIMS ID: 10-1447
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 20:40
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 30.2%

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**20**	**17 J**
111-44-4	Bis-(2-Chloroethyl) Ether	20	< 20 U
95-57-8	2-Chlorophenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
621-64-7	N-Nitroso-Di-N-Propylamine	99	< 99 U
67-72-1	Hexachloroethane	20	< 20 U
98-95-3	Nitrobenzene	20	< 20 U
78-59-1	Isophorone	20	< 20 U
88-75-5	2-Nitrophenol	99	< 99 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	**Benzoic Acid**	**200**	**50 J**
111-91-1	bis(2-Chloroethoxy) Methane	20	< 20 U
120-83-2	2,4-Dichlorophenol	99	< 99 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
106-47-8	4-Chloroaniline	99	< 99 U
87-68-3	Hexachlorobutadiene	20	< 20 U
59-50-7	4-Chloro-3-methylphenol	99	< 99 U
91-57-6	2-Methylnaphthalene	20	< 20 U
77-47-4	Hexachlorocyclopentadiene	99	< 99 U
88-06-2	2,4,6-Trichlorophenol	99	< 99 U
95-95-4	2,4,5-Trichlorophenol	99	< 99 U
91-58-7	2-Chloronaphthalene	20	< 20 U
88-74-4	2-Nitroaniline	99	< 99 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	**Acenaphthylene**	**20**	**17 J**
99-09-2	3-Nitroaniline	99	< 99 U
83-32-9	Acenaphthene	20	< 20 U
51-28-5	2,4-Dinitrophenol	200	< 200 U
100-02-7	4-Nitrophenol	99	< 99 U
132-64-9	Dibenzofuran	20	< 20 U
606-20-2	2,6-Dinitrotoluene	99	< 99 U
121-14-2	2,4-Dinitrotoluene	99	< 99 U
84-66-2	Diethylphthalate	20	< 20 U
7005-72-3	4-Chlorophenyl-phenylether	20	< 20 U
86-73-7	**Fluorene**	**20**	**16 J**
100-01-6	4-Nitroaniline	99	< 99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200	< 200 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: LDW-SS502-010-comp**
 SAMPLE

Lab Sample ID: QG62A QC Report No: QG62-Windward Environmental, LLC
LIMS ID: 10-1447 Project: LDW Dioxin Sampling
Matrix: Sediment NA
Date Analyzed: 01/28/10 20:40

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
101-55-3	4-Bromophenyl-phenylether	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	99	< 99 U
85-01-8	**Phenanthrene**	**20**	**190**
86-74-8	**Carbazole**	**20**	**14 J**
120-12-7	**Anthracene**	**20**	**66**
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**460**
129-00-0	**Pyrene**	**20**	**460**
85-68-7	**Butylbenzylphthalate**	**20**	**25**
91-94-1	3,3'-Dichlorobenzidine	99	< 99 U
56-55-3	**Benzo(a)anthracene**	**20**	**250**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**150**
218-01-9	**Chrysene**	**20**	**300**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**180**
207-08-9	**Benzo(k)fluoranthene**	**20**	**180**
50-32-8	**Benzo(a)pyrene**	**20**	**260**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**130**
53-70-3	**Dibenz(a,h)anthracene**	**20**	**62**
191-24-2	**Benzo(g,h,i)perylene**	**20**	**140**
62-53-3	Aniline	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.6%	2-Fluorobiphenyl	77.6%
d14-p-Terphenyl	84.0%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	79.2%	2-Fluorophenol	61.9%
2,4,6-Tribromophenol	92.3%	d4-2-Chlorophenol	65.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: LDW-SS527-010
SAMPLE

Lab Sample ID: QG62B
LIMS ID: 10-1448
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
NA
Date Sampled: 12/17/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 21:12
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 52.8%

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**20**	**21**
111-44-4	Bis-(2-Chloroethyl) Ether	20	< 20 U
95-57-8	2-Chlorophenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
621-64-7	N-Nitroso-Di-N-Propylamine	99	< 99 U
67-72-1	Hexachloroethane	20	< 20 U
98-95-3	Nitrobenzene	20	< 20 U
78-59-1	Isophorone	20	< 20 U
88-75-5	2-Nitrophenol	99	< 99 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	**Benzoic Acid**	**200**	**48 J**
111-91-1	bis(2-Chloroethoxy) Methane	20	< 20 U
120-83-2	2,4-Dichlorophenol	99	< 99 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
106-47-8	4-Chloroaniline	99	< 99 U
87-68-3	Hexachlorobutadiene	20	< 20 U
59-50-7	4-Chloro-3-methylphenol	99	< 99 U
91-57-6	2-Methylnaphthalene	20	< 20 U
77-47-4	Hexachlorocyclopentadiene	99	< 99 U
88-06-2	2,4,6-Trichlorophenol	99	< 99 U
95-95-4	2,4,5-Trichlorophenol	99	< 99 U
91-58-7	2-Chloronaphthalene	20	< 20 U
88-74-4	2-Nitroaniline	99	< 99 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
99-09-2	3-Nitroaniline	99	< 99 U
83-32-9	**Acenaphthene**	**20**	**11 J**
51-28-5	2,4-Dinitrophenol	200	< 200 U
100-02-7	4-Nitrophenol	99	< 99 U
132-64-9	Dibenzofuran	20	< 20 U
606-20-2	2,6-Dinitrotoluene	99	< 99 U
121-14-2	2,4-Dinitrotoluene	99	< 99 U
84-66-2	Diethylphthalate	20	< 20 U
7005-72-3	4-Chlorophenyl-phenylether	20	< 20 U
86-73-7	**Fluorene**	**20**	**11 J**
100-01-6	4-Nitroaniline	99	< 99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200	< 200 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: LDW-SS527-010
SAMPLE

Lab Sample ID: QG62B
LIMS ID: 10-1448
Matrix: Sediment
Date Analyzed: 01/28/10 21:12

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
NA

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
101-55-3	4-Bromophenyl-phenylether	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	99	< 99 U
85-01-8	**Phenanthrene**	**20**	**67**
86-74-8	Carbazole	20	< 20 U
120-12-7	**Anthracene**	**20**	**30**
84-74-2	**Di-n-Butylphthalate**	**20**	**20**
206-44-0	**Fluoranthene**	**20**	**190**
129-00-0	**Pyrene**	**20**	**170**
85-68-7	Butylbenzylphthalate	20	< 20 U
91-94-1	3,3'-Dichlorobenzidine	99	< 99 U
56-55-3	**Benzo(a)anthracene**	**20**	**94**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**320**
218-01-9	**Chrysene**	**20**	**150**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**87**
207-08-9	**Benzo(k)fluoranthene**	**20**	**87**
50-32-8	**Benzo(a)pyrene**	**20**	**86**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**50**
53-70-3	**Dibenz(a,h)anthracene**	**20**	**26**
191-24-2	**Benzo(g,h,i)perylene**	**20**	**54**
62-53-3	Aniline	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.8%	2-Fluorobiphenyl	72.4%
d14-p-Terphenyl	77.6%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	80.8%	2-Fluorophenol	63.5%
2,4,6-Tribromophenol	90.1%	d4-2-Chlorophenol	66.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: LDW-SS603-010
SAMPLE

Lab Sample ID: QG62C
LIMS ID: 10-1449
Matrix: Sediment
Data Release Authorized:
Reported: 02/03/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
NA
Date Sampled: 12/17/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/28/10 21:44
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 54.9%

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**20**	**20**
111-44-4	Bis-(2-Chloroethyl) Ether	20	< 20 U
95-57-8	2-Chlorophenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
621-64-7	N-Nitroso-Di-N-Propylamine	99	< 99 U
67-72-1	Hexachloroethane	20	< 20 U
98-95-3	Nitrobenzene	20	< 20 U
78-59-1	Isophorone	20	< 20 U
88-75-5	2-Nitrophenol	99	< 99 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	**Benzoic Acid**	**200**	**62 J**
111-91-1	bis(2-Chloroethoxy) Methane	20	< 20 U
120-83-2	2,4-Dichlorophenol	99	< 99 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
106-47-8	4-Chloroaniline	99	< 99 U
87-68-3	Hexachlorobutadiene	20	< 20 U
59-50-7	4-Chloro-3-methylphenol	99	< 99 U
91-57-6	2-Methylnaphthalene	20	< 20 U
77-47-4	Hexachlorocyclopentadiene	99	< 99 U
88-06-2	2,4,6-Trichlorophenol	99	< 99 U
95-95-4	2,4,5-Trichlorophenol	99	< 99 U
91-58-7	2-Chloronaphthalene	20	< 20 U
88-74-4	2-Nitroaniline	99	< 99 U
131-11-3	**Dimethylphthalate**	**20**	**180**
208-96-8	Acenaphthylene	20	< 20 U
99-09-2	3-Nitroaniline	99	< 99 U
83-32-9	**Acenaphthene**	**20**	**11 J**
51-28-5	2,4-Dinitrophenol	200	< 200 U
100-02-7	4-Nitrophenol	99	< 99 U
132-64-9	**Dibenzofuran**	**20**	**11 J**
606-20-2	2,6-Dinitrotoluene	99	< 99 U
121-14-2	2,4-Dinitrotoluene	99	< 99 U
84-66-2	Diethylphthalate	20	< 20 U
7005-72-3	4-Chlorophenyl-phenylether	20	< 20 U
86-73-7	**Fluorene**	**20**	**11 J**
100-01-6	4-Nitroaniline	99	< 99 U
534-52-1	4,6-Dinitro-2-Methylphenol	200	< 200 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: LDW-SS603-010
SAMPLE

Lab Sample ID: QG62C
LIMS ID: 10-1449
Matrix: Sediment
Date Analyzed: 01/28/10 21:44

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
NA

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
101-55-3	4-Bromophenyl-phenylether	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	99	< 99 U
85-01-8	**Phenanthrene**	**20**	**94**
86-74-8	**Carbazole**	**20**	**11 J**
120-12-7	**Anthracene**	**20**	**31**
84-74-2	**Di-n-Butylphthalate**	**20**	**37**
206-44-0	**Fluoranthene**	**20**	**230**
129-00-0	**Pyrene**	**20**	**170**
85-68-7	Butylbenzylphthalate	20	< 20 U
91-94-1	3,3'-Dichlorobenzidine	99	< 99 U
56-55-3	**Benzo(a)anthracene**	**20**	**90**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**230**
218-01-9	**Chrysene**	**20**	**140**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**94**
207-08-9	**Benzo(k)fluoranthene**	**20**	**94**
50-32-8	**Benzo(a)pyrene**	**20**	**94**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**45**
53-70-3	**Dibenz(a,h)anthracene**	**20**	**22**
191-24-2	**Benzo(g,h,i)perylene**	**20**	**46**
62-53-3	Aniline	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.2%	2-Fluorobiphenyl	81.6%
d14-p-Terphenyl	69.6%	d4-1,2-Dichlorobenzene	59.2%
d5-Phenol	76.0%	2-Fluorophenol	60.8%
2,4,6-Tribromophenol	73.3%	d4-2-Chlorophenol	62.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 1 of 2

Sample ID: LDW-SS527-RB
SAMPLE

Lab Sample ID: QC19H
LIMS ID: 09-31229
Matrix: Water
Data Release Authorized:
Reported: 12/28/09

QC Report No: QC19-Windward Environmental, LLC
Project: LDW Dioxin Sampling
04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Date Extracted: 12/23/09
Date Analyzed: 12/24/09 14:23
Instrument/Analyst: NT6/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	**Benzyl Alcohol**	**5.0**	**8.0**
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	**4-Chloroaniline**	**5.0**	**60**
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	**3-Nitroaniline**	**5.0**	**16**
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS
Page 2 of 2

Sample ID: LDW-SS527-RB
SAMPLE

Lab Sample ID: QC19H
LIMS ID: 09-31229
Matrix: Water
Date Analyzed: 12/24/09 14:23

QC Report No: QC19-Windward Environmental, LLC
Project: LDW Dioxin Sampling
04-08-06-29

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
62-53-3	**Aniline**	**1.0**	**55**
62-75-9	**N-Nitrosodimethylamine**	**5.0**	**6.4**
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	86.4%	2-Fluorobiphenyl	93.2%
d14-p-Terphenyl	144%	d4-1,2-Dichlorobenzene	78.8%
d5-Phenol	38.4%	2-Fluorophenol	63.7%
2,4,6-Tribromophenol	93.9%	d4-2-Chlorophenol	71.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LDW-SS527-RB
SAMPLE

Lab Sample ID: QC19H
LIMS ID: 09-31855
Matrix: Water
Data Release Authorized:
Reported: 01/11/10

QC Report No: QC19-Windward Environmental, LLC
Project: LDW DIOXIN SAMPLING
04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/29/09

Date Extracted: 12/28/09
Date Analyzed: 12/29/09 16:27
Instrument/Analyst: NT6/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LDW-SS527-RB
SAMPLE

Lab Sample ID: QC19H
LIMS ID: 09-31855
Matrix: Water
Date Analyzed: 12/29/09 16:27

QC Report No: QC19-Windward Environmental, LLC
Project: LDW DIOXIN SAMPLING
04-08-06-29

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
205-99-2	Benzo(b)fluoranthene	1.0	< 1.0 U
207-08-9	Benzo(k)fluoranthene	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
62-53-3	Aniline	1.0	< 1.0 U
62-75-9	N-Nitrosodimethylamine	5.0	< 5.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	79.6%	2-Fluorobiphenyl	88.8%
d14-p-Terphenyl	122%	d4-1,2-Dichlorobenzene	77.2%
d5-Phenol	34.9%	2-Fluorophenol	45.6%
2,4,6-Tribromophenol	69.1%	d4-2-Chlorophenol	65.6%

SVOCS (SIM)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: LDW-SS502-010-comp**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QG62A
LIMS ID: 10-1447
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 17:08
Instrument/Analyst: NT2/PK
GPC Cleanup: Yes
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 16.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 30.2%

CAS Number	Analyte	RL	Result
106-46-7	1,4-Dichlorobenzene	6.1	< 6.1 U
120-82-1	1,2,4-Trichlorobenzene	6.1	< 6.1 U
118-74-1	Hexachlorobenzene	6.1	< 6.1 U
87-68-3	Hexachlorobutadiene	6.1	< 6.1 U
131-11-3	Dimethylphthalate	15	< 15 U
84-66-2	Diethylphthalate	15	< 15 U
85-68-7	Butylbenzylphthalate	15	< 15 U
95-48-7	2-Methylphenol	6.1	< 6.1 U
105-67-9	2,4-Dimethylphenol	6.1	< 6.1 U
86-30-6	N-Nitrosodiphenylamine	6.1	< 6.1 U
100-51-6	Benzyl Alcohol	30	< 30 U
87-86-5	Pentachlorophenol	30	< 30 U
95-50-1	1,2-Dichlorobenzene	6.1	< 6.1 U
621-64-7	N-Nitroso-Di-N-Propylamine	30	< 30 U
62-75-9	N-Nitrosodimethylamine	30	< 30 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	75.2%	d5-Phenol	61.9%
2-Fluorophenol	42.1%	d4-2-Chlorophenol	54.4%
d4-1,2-Dichlorobenzene	63.6%	d5-Nitrobenzene	60.8%
2,4,6-Tribromophenol	86.7%	d14-p-Terphenyl	76.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: LDW-SS527-010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QG62B
LIMS ID: 10-1448
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 12/17/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 18:49
Instrument/Analyst: NT2/PK
GPC Cleanup: Yes
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 16.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 52.8%

CAS Number	Analyte	RL	Result
106-46-7	1,4-Dichlorobenzene	6.2	< 6.2 U
120-82-1	1,2,4-Trichlorobenzene	6.2	< 6.2 U
118-74-1	Hexachlorobenzene	6.2	< 6.2 U
87-68-3	Hexachlorobutadiene	6.2	< 6.2 U
131-11-3	Dimethylphthalate	15	< 15 U
84-66-2	Diethylphthalate	15	< 15 U
85-68-7	**Butylbenzylphthalate**	**15**	**22**
95-48-7	2-Methylphenol	6.2	< 6.2 U
105-67-9	2,4-Dimethylphenol	6.2	< 6.2 U
86-30-6	N-Nitrosodiphenylamine	6.2	< 6.2 U
100-51-6	Benzyl Alcohol	31	< 31 U
87-86-5	Pentachlorophenol	31	< 31 U
95-50-1	1,2-Dichlorobenzene	6.2	< 6.2 U
621-64-7	N-Nitroso-Di-N-Propylamine	31	< 31 U
62-75-9	N-Nitrosodimethylamine	31	< 31 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	74.4%	d5-Phenol	58.1%
2-Fluorophenol	48.5%	d4-2-Chlorophenol	52.0%
d4-1,2-Dichlorobenzene	59.2%	d5-Nitrobenzene	58.8%
2,4,6-Tribromophenol	80.0%	d14-p-Terphenyl	73.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: LDW-SS603-010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: QG62C
LIMS ID: 10-1449
Matrix: Sediment
Data Release Authorized:
Reported: 02/02/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 12/17/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 19:22
Instrument/Analyst: NT2/PK
GPC Cleanup: Yes
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 16.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 54.9%

CAS Number	Analyte	RL	Result
106-46-7	1,4-Dichlorobenzene	6.1	< 6.1 U
120-82-1	1,2,4-Trichlorobenzene	6.1	< 6.1 U
118-74-1	Hexachlorobenzene	6.1	< 6.1 U
87-68-3	Hexachlorobutadiene	6.1	< 6.1 U
131-11-3	Dimethylphthalate	15	< 15 U
84-66-2	Diethylphthalate	15	< 15 U
85-68-7	**Butylbenzylphthalate**	**15**	**22**
95-48-7	2-Methylphenol	6.1	< 6.1 U
105-67-9	2,4-Dimethylphenol	6.1	< 6.1 U
86-30-6	N-Nitrosodiphenylamine	6.1	< 6.1 U
100-51-6	Benzyl Alcohol	30	< 30 U
87-86-5	Pentachlorophenol	30	< 30 U
95-50-1	1,2-Dichlorobenzene	6.1	< 6.1 U
621-64-7	N-Nitroso-Di-N-Propylamine	30	< 30 U
62-75-9	N-Nitrosodimethylamine	30	< 30 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	74.8%	d5-Phenol	58.1%
2-Fluorophenol	50.4%	d4-2-Chlorophenol	51.7%
d4-1,2-Dichlorobenzene	60.4%	d5-Nitrobenzene	56.4%
2,4,6-Tribromophenol	82.1%	d14-p-Terphenyl	74.0%

DIOXINS AND FURANS

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS501-010
Sample Collection:
16-Dec-2009 11:39

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-5 R
Matrix:	SOLID	**Sample Size:**	9.73 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 16:34:28	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 25**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 17
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	52.7

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	B J	0.398	0.0514	0.70	1.001
1,2,3,7,8-PECDD [3]	J	1.55	0.0514	0.62	1.002
1,2,3,4,7,8-HXCDD	J	2.68	0.0514	1.14	1.000
1,2,3,6,7,8-HXCDD		10.1	0.0514	1.19	1.001
1,2,3,7,8,9-HXCDD		7.63	0.0514	1.16	1.000
1,2,3,4,6,7,8-HPCDD		248	0.0737	1.00	1.000
OCDD	B	2360	0.0514	0.86	1.000
2,3,7,8-TCDF		3.96	0.0514	0.76	1.002
1,2,3,7,8-PECDF	J	0.717	0.0514	1.56	1.001
2,3,4,7,8-PECDF	J	1.59	0.0514	1.46	1.001
1,2,3,4,7,8-HXCDF	J	5.02	0.0514	1.19	1.000
1,2,3,6,7,8-HXCDF	J	1.73	0.0514	1.20	1.001
1,2,3,7,8,9-HXCDF	J	0.167	0.0514	1.10	1.000
2,3,4,6,7,8-HXCDF	J	1.43	0.0514	1.10	1.001
1,2,3,4,6,7,8-HPCDF		40.5	0.0514	1.01	1.000
1,2,3,4,7,8,9-HPCDF	J	2.79	0.0514	0.95	1.000
OCDF		165	0.0514	0.86	1.002
TOTAL TETRA-DIOXINS		6.25	0.0514		
TOTAL PENTA-DIOXINS		12.4	0.0514		
TOTAL HEXA-DIOXINS		99.4	0.0514		
TOTAL HEPTA-DIOXINS		738	0.0737		
TOTAL TETRA-FURANS		22.3	0.0514		
TOTAL PENTA-FURANS		26.7	0.0514		
TOTAL HEXA-FURANS		62.6	0.0514		
TOTAL HEPTA-FURANS		145	0.0514		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L14065-5_Form1A_DX0M_015S25_SJ1108232.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS501-010
Sample Collection:
16-Dec-2009 11:39

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-5 R
Matrix:	SOLID	**Sample Size:**	9.73 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 00:27:31	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_033 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_033 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	52.7

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.27	0.195	0.73	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:22:20; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB225_L14065-5_Form1A_DB0B_033S8_SJ1107311.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS502-010-COMP
Sample Collection:
11-Jan-2010 17:04

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-1
Matrix:	SOLID	**Sample Size:**	10.2 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 15:43:20	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_019 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_019 S: 6
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_019 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	72.3

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.122	0.0489	0.49	1.000
1,2,3,7,8-PECDD [3]	K J	0.491	0.0489	0.48	1.001
1,2,3,4,7,8-HXCDD	J	0.704	0.0489	1.40	1.000
1,2,3,6,7,8-HXCDD		2.14	0.0489	1.26	1.000
1,2,3,7,8,9-HXCDD		1.80	0.0489	1.13	1.000
1,2,3,4,6,7,8-HPCDD		42.5	0.0512	0.99	1.000
OCDD	B	393	0.0519	0.86	1.000
2,3,7,8-TCDF		1.45	0.0489	0.75	1.001
1,2,3,7,8-PECDF	J	0.383	0.0489	1.57	1.001
2,3,4,7,8-PECDF	J	0.667	0.0489	1.53	1.001
1,2,3,4,7,8-HXCDF		1.34	0.0489	1.35	1.001
1,2,3,6,7,8-HXCDF	J	0.736	0.0489	1.20	1.000
1,2,3,7,8,9-HXCDF	K J	0.066	0.0489	0.82	1.001
2,3,4,6,7,8-HXCDF	J	0.690	0.0489	1.06	1.001
1,2,3,4,6,7,8-HPCDF		19.4	0.0489	0.99	1.000
1,2,3,4,7,8,9-HPCDF	J	0.752	0.0489	1.05	1.001
OCDF	B	40.9	0.0489	0.85	1.002
TOTAL TETRA-DIOXINS		4.40	0.0489		
TOTAL PENTA-DIOXINS		5.38	0.0489		
TOTAL HEXA-DIOXINS		21.4	0.0489		
TOTAL HEPTA-DIOXINS		110	0.0512		
TOTAL TETRA-FURANS		10.2	0.0489		
TOTAL PENTA-FURANS		10.8	0.0489		
TOTAL HEXA-FURANS		20.1	0.0489		
TOTAL HEPTA-FURANS		48.1	0.0489		

(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; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L14159-1_Form1A_DX0M_019S7_SJ1112381.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS502-010-COMP
Sample Collection:
11-Jan-2010 17:04

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-1
Matrix:	SOLID	**Sample Size:**	10.2 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 12:49:47	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_039 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_039 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_039 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	72.3

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K J	0.900	0.0645	0.91	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:53:00; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB225_L14159-1_Form1A_DB0B_039S6_SJ1111274.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS503-043-COMP
Sample Collection:
11-Jan-2010 18:28

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-2
Matrix:	SOLID	**Sample Size:**	10.4 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 16:38:22	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_019 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_019 S: 6
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_019 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	77.1

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K	0.279	0.0495	0.46	1.001
1,2,3,7,8-PECDD [3]	J	0.518	0.0479	0.61	1.001
1,2,3,4,7,8-HXCDD	J	0.630	0.0479	1.26	1.000
1,2,3,6,7,8-HXCDD		2.31	0.0479	1.21	1.000
1,2,3,7,8,9-HXCDD		1.82	0.0479	1.29	1.000
1,2,3,4,6,7,8-HPCDD		42.0	0.0721	1.01	1.000
OCDD	B	410	0.0942	0.85	1.000
2,3,7,8-TCDF		2.67	0.0479	0.74	1.002
1,2,3,7,8-PECDF	J	0.447	0.0479	1.45	1.002
2,3,4,7,8-PECDF		0.977	0.0479	1.46	1.001
1,2,3,4,7,8-HXCDF		2.47	0.0479	1.22	1.000
1,2,3,6,7,8-HXCDF		1.08	0.0479	1.11	1.001
1,2,3,7,8,9-HXCDF	U		0.0479		
2,3,4,6,7,8-HXCDF	J	0.964	0.0479	1.30	1.000
1,2,3,4,6,7,8-HPCDF		15.2	0.0479	1.03	1.000
1,2,3,4,7,8,9-HPCDF		1.06	0.0479	1.11	1.000
OCDF	B	53.2	0.0479	0.88	1.002
TOTAL TETRA-DIOXINS		7.17	0.0495		
TOTAL PENTA-DIOXINS		7.90	0.0479		
TOTAL HEXA-DIOXINS		20.2	0.0479		
TOTAL HEPTA-DIOXINS		85.6	0.0721		
TOTAL TETRA-FURANS		21.6	0.0479		
TOTAL PENTA-FURANS		26.5	0.0479		
TOTAL HEXA-FURANS		29.9	0.0479		
TOTAL HEPTA-FURANS		49.5	0.0479		

(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; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:52:27; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB5_L14159-2_Form1A_DX0M_019S8_SJ1112382.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS503-043-COMP
Sample Collection:
11-Jan-2010 18:28

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-2
Matrix:	SOLID	**Sample Size:**	10.4 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 13:25:40	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_039 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_039 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_039 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	77.1

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.11	0.192	0.74	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:53:00; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB225_L14159-2_Form1A_DB0B_039S7_SJ1111275.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS504-010
Sample Collection:
16-Dec-2009 12:50

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-6 R
Matrix:	SOLID	**Sample Size:**	10.2 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	29-Jan-2010 **Time:** 01:52:52	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_012 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_012 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_012 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	68.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.150	0.0489	0.55	1.001
1,2,3,7,8-PECDD [3]	K J	0.277	0.0489	0.75	1.001
1,2,3,4,7,8-HXCDD	J	0.479	0.0489	1.18	1.000
1,2,3,6,7,8-HXCDD	J	2.27	0.0489	1.17	1.000
1,2,3,7,8,9-HXCDD	J	1.57	0.0489	1.15	1.000
1,2,3,4,6,7,8-HPCDD	B	50.9	0.113	0.99	1.000
OCDD	B	497	0.0489	0.87	1.000
2,3,7,8-TCDF	J	0.928	0.0489	0.81	1.002
1,2,3,7,8-PECDF	J	0.205	0.0489	1.70	1.001
2,3,4,7,8-PECDF	J	0.467	0.0489	1.37	1.001
1,2,3,4,7,8-HXCDF	J	2.43	0.0489	1.30	1.000
1,2,3,6,7,8-HXCDF	J	0.561	0.0489	1.25	1.000
1,2,3,7,8,9-HXCDF	K J	0.067	0.0489	0.96	1.000
2,3,4,6,7,8-HXCDF	J	0.378	0.0489	1.42	1.000
1,2,3,4,6,7,8-HPCDF		14.0	0.0546	1.05	1.000
1,2,3,4,7,8,9-HPCDF	J	1.33	0.0546	0.92	1.000
OCDF		63.6	0.0565	0.85	1.002
TOTAL TETRA-DIOXINS		1.68	0.0489		
TOTAL PENTA-DIOXINS		2.23	0.0489		
TOTAL HEXA-DIOXINS		18.9	0.0489		
TOTAL HEPTA-DIOXINS	B	136	0.113		
TOTAL TETRA-FURANS		5.63	0.0489		
TOTAL PENTA-FURANS		7.09	0.0489		
TOTAL HEXA-FURANS		22.3	0.0489		
TOTAL HEPTA-FURANS		56.4	0.0546		

(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; B = analyte found in sample and the associated blank; 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

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS504-010
Sample Collection:
16-Dec-2009 12:50

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-6 R
Matrix:	SOLID	**Sample Size:**	10.2 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	01-Feb-2010 **Time:** 13:22:42	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_031A S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_031A S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	68.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.437	0.0775	0.76	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 13:54:11; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-6_Form1A_DB0B_031AS6_SJ1106674.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS505-010
Sample Collection:
16-Dec-2009 08:13

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-7 R (A)
Matrix:	SOLID	**Sample Size:**	10.3 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 22:25:12	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 31**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 28
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	57.2

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	B J	0.511	0.0487	0.70	1.001
1,2,3,7,8-PECDD [3]	J	2.12	0.0487	0.60	1.001
1,2,3,4,7,8-HXCDD	J	3.79	0.0487	1.27	1.000
1,2,3,6,7,8-HXCDD		15.3	0.0487	1.18	1.000
1,2,3,7,8,9-HXCDD		11.1	0.0487	1.19	1.000
1,2,3,4,6,7,8-HPCDD		402	0.0875	1.02	1.000
OCDD	B	3900	0.0487	0.88	1.000
2,3,7,8-TCDF		6.23	0.0487	0.74	1.003
1,2,3,7,8-PECDF	J	1.17	0.0487	1.48	1.001
2,3,4,7,8-PECDF	J	2.65	0.0487	1.55	1.001
1,2,3,4,7,8-HXCDF		8.61	0.0487	1.21	1.000
1,2,3,6,7,8-HXCDF	J	2.91	0.0487	1.15	1.000
1,2,3,7,8,9-HXCDF	J	0.223	0.0487	1.16	1.001
2,3,4,6,7,8-HXCDF	J	2.36	0.0487	1.18	1.000
1,2,3,4,6,7,8-HPCDF		74.4	0.0546	1.03	1.000
1,2,3,4,7,8,9-HPCDF		5.37	0.0546	1.03	1.000
OCDF		330	0.0487	0.86	1.002
TOTAL TETRA-DIOXINS		8.10	0.0487		
TOTAL PENTA-DIOXINS		14.5	0.0487		
TOTAL HEXA-DIOXINS		141	0.0487		
TOTAL HEPTA-DIOXINS		1130	0.0875		
TOTAL TETRA-FURANS		33.5	0.0487		
TOTAL PENTA-FURANS		46.1	0.0487		
TOTAL HEXA-FURANS		111	0.0487		
TOTAL HEPTA-FURANS		282	0.0546		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:21:33; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB5_L14065-7_Form1A_DX0M_015S31_SJ1108578.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS505-010
Sample Collection:
16-Dec-2009 08:13

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-7 R (A)
Matrix:	SOLID	**Sample Size:**	10.3 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 01:03:18	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_033 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_033 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	57.2

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		2.26	0.226	0.84	1.000

(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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:22:20; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB225_L14065-7_Form1A_DB0B_033S9_SJ1107312.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS505-010 (Duplicate)
Sample Collection:
16-Dec-2009 08:13

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	WG31628-103 (DUP L14065-7)
Matrix:	SOLID	**Sample Size:**	10.1 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 23:20:10	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 32**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 28
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	56.0

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	B J	0.558	0.0495	0.68	1.002
1,2,3,7,8-PECDD [3]	J	2.19	0.0495	0.60	1.001
1,2,3,4,7,8-HXCDD	J	3.98	0.0495	1.27	1.000
1,2,3,6,7,8-HXCDD		14.9	0.0495	1.25	1.001
1,2,3,7,8,9-HXCDD		11.2	0.0495	1.19	1.000
1,2,3,4,6,7,8-HPCDD		382	0.0967	1.02	1.000
OCDD	B	3770	0.0495	0.87	1.000
2,3,7,8-TCDF		6.29	0.0495	0.74	1.002
1,2,3,7,8-PECDF	J	1.16	0.0495	1.57	1.001
2,3,4,7,8-PECDF	J	2.52	0.0495	1.48	1.001
1,2,3,4,7,8-HXCDF		8.80	0.0495	1.20	1.000
1,2,3,6,7,8-HXCDF	J	2.86	0.0495	1.27	1.001
1,2,3,7,8,9-HXCDF	J	0.238	0.0495	1.26	1.000
2,3,4,6,7,8-HXCDF	J	2.31	0.0495	1.17	1.001
1,2,3,4,6,7,8-HPCDF		72.7	0.0543	1.01	1.000
1,2,3,4,7,8,9-HPCDF		5.20	0.0543	1.02	1.000
OCDF		316	0.0495	0.85	1.002
TOTAL TETRA-DIOXINS		8.76	0.0495		
TOTAL PENTA-DIOXINS		15.8	0.0495		
TOTAL HEXA-DIOXINS		141	0.0495		
TOTAL HEPTA-DIOXINS		1090	0.0967		
TOTAL TETRA-FURANS		33.8	0.0495		
TOTAL PENTA-FURANS		43.3	0.0495		
TOTAL HEXA-FURANS		111	0.0495		
TOTAL HEPTA-FURANS		275	0.0543		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:21:33; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB5_WG31628-103_Form1A_DX0M_015S32_SJ1108579.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS505-010 (Duplicate)
Sample Collection:
16-Dec-2009 08:13

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	WG31628-103 (DUP L14065-7)
Matrix:	SOLID	**Sample Size:**	10.1 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 01:39:06	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_033 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_033 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	56.0

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		2.30	0.152	0.84	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:22:20; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB225_WG31628-103_Form1A_DB0B_033S10_SJ1107313.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

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. LDW DIOXIN AND FURAN SAMPLING

Contract No.: 4033

Client ID: LDW-SS505-010

Concentration Units: ng/kg (dry weight basis)

COMPOUND	L14065-7 (A)		WG31628-103		MEAN	RELATIVE PERCENT DIFFERENCE
	LAB FLAG [1]	CONC. FOUND	LAB FLAG [1]	CONC. FOUND		
2,3,7,8-TCDD	J	0.511	J	0.558	0.534	8.79
1,2,3,7,8-PECDD	J	2.12	J	2.19	2.16	3.29
1,2,3,4,7,8-HXCDD	J	3.79	J	3.98	3.89	5.06
1,2,3,6,7,8-HXCDD		15.3		14.9	15.1	2.55
1,2,3,7,8,9-HXCDD		11.1		11.2	11.1	0.768
1,2,3,4,6,7,8-HPCDD		402		382	392	5.15
OCDD		3900		3770	3830	3.31
2,3,7,8-TCDF		2.26		2.30	2.28	1.76
1,2,3,7,8-PECDF	J	1.17	J	1.16	1.17	0.250
2,3,4,7,8-PECDF	J	2.65	J	2.52	2.59	5.05
1,2,3,4,7,8-HXCDF		8.61		8.80	8.70	2.12
1,2,3,6,7,8-HXCDF	J	2.91	J	2.86	2.89	1.77
1,2,3,7,8,9-HXCDF	J	0.223	J	0.238	0.230	6.64
2,3,4,6,7,8-HXCDF	J	2.36	J	2.31	2.33	2.17
1,2,3,4,6,7,8-HPCDF		74.4		72.7	73.6	2.38
1,2,3,4,7,8,9-HPCDF		5.37		5.20	5.29	3.19
OCDF		330		316	323	4.28

(1) Where applicable, custom lab flags have been used on this report; J = concentration less than LMCL.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: RPD.xsl; Created: 11-Feb-2010 08:22:50; Application: XMLTransformer-1.10.16;
Report Filename: RPD_DIOXINS_1613-RPD_WG31628-103_L14065-7_.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS506-010
Sample Collection:
16-Dec-2009 13:12

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-8 R
Matrix:	SOLID	**Sample Size:**	9.77 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	29-Jan-2010 **Time:** 02:47:51	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_012 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_012 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_012 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	56.8

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.608	0.0512	0.71	1.001
1,2,3,7,8-PECDD [3]	J	2.14	0.0512	0.62	1.001
1,2,3,4,7,8-HXCDD	J	4.17	0.0512	1.25	1.000
1,2,3,6,7,8-HXCDD		14.8	0.0512	1.21	1.000
1,2,3,7,8,9-HXCDD		10.8	0.0512	1.30	1.000
1,2,3,4,6,7,8-HPCDD	B	358	0.0907	1.01	1.000
OCDD	B	3440	0.0512	0.86	1.000
2,3,7,8-TCDF		6.62	0.0512	0.75	1.002
1,2,3,7,8-PECDF	J	1.16	0.0512	1.47	1.001
2,3,4,7,8-PECDF	J	2.62	0.0512	1.49	1.001
1,2,3,4,7,8-HXCDF		10.4	0.0512	1.20	1.001
1,2,3,6,7,8-HXCDF	J	3.06	0.0512	1.20	1.000
1,2,3,7,8,9-HXCDF	J	0.200	0.0512	1.10	1.000
2,3,4,6,7,8-HXCDF	J	2.43	0.0512	1.21	1.000
1,2,3,4,6,7,8-HPCDF		78.2	0.0710	1.04	1.000
1,2,3,4,7,8,9-HPCDF		5.98	0.0710	0.98	1.000
OCDF		320	0.0523	0.86	1.002
TOTAL TETRA-DIOXINS		7.58	0.0512		
TOTAL PENTA-DIOXINS		14.8	0.0512		
TOTAL HEXA-DIOXINS		125	0.0512		
TOTAL HEPTA-DIOXINS	B	945	0.0907		
TOTAL TETRA-FURANS		38.4	0.0512		
TOTAL PENTA-FURANS		47.6	0.0512		
TOTAL HEXA-FURANS		117	0.0512		
TOTAL HEPTA-FURANS		282	0.0710		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 09:23:13; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-8_Form1A_DX0M_012S8_SJ1105766.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS506-010
Sample Collection:
16-Dec-2009 13:12

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-8 R
Matrix:	SOLID	**Sample Size:**	9.77 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	01-Feb-2010 **Time:** 17:32:47	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_031A S: 13**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_031A S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	56.8

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		2.06	0.239	0.77	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_L14065-8_Form1A_DB0B_031AS13_SJ1106681.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS507-010
Sample Collection:
16-Dec-2009 13:34

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-9 R
Matrix:	SOLID	**Sample Size:**	10.1 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 12:50:41	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 21**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 17
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	50.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	B J	0.453	0.0493	0.66	1.001
1,2,3,7,8-PECDD [3]	J	1.44	0.0493	0.63	1.001
1,2,3,4,7,8-HXCDD	J	2.51	0.0493	1.20	1.000
1,2,3,6,7,8-HXCDD		10.9	0.0493	1.22	1.001
1,2,3,7,8,9-HXCDD		7.39	0.0493	1.19	1.000
1,2,3,4,6,7,8-HPCDD		315	0.144	1.02	1.000
OCDD	B	4080	0.717	0.87	1.000
2,3,7,8-TCDF		4.38	0.0493	0.73	1.002
1,2,3,7,8-PECDF	J	0.944	0.0493	1.46	1.001
2,3,4,7,8-PECDF	J	1.96	0.0493	1.51	1.000
1,2,3,4,7,8-HXCDF		8.00	0.0493	1.18	1.001
1,2,3,6,7,8-HXCDF	J	2.20	0.0493	1.23	1.001
1,2,3,7,8,9-HXCDF	J	0.197	0.0493	1.34	1.000
2,3,4,6,7,8-HXCDF	J	1.63	0.0493	1.22	1.000
1,2,3,4,6,7,8-HPCDF		58.4	0.0502	1.02	1.000
1,2,3,4,7,8,9-HPCDF	J	4.56	0.0502	0.98	1.000
OCDF		285	0.0499	0.87	1.002
TOTAL TETRA-DIOXINS		5.93	0.0493		
TOTAL PENTA-DIOXINS		11.2	0.0493		
TOTAL HEXA-DIOXINS		104	0.0493		
TOTAL HEPTA-DIOXINS		1080	0.144		
TOTAL TETRA-FURANS		23.9	0.0493		
TOTAL PENTA-FURANS		32.5	0.0493		
TOTAL HEXA-FURANS		95.6	0.0493		
TOTAL HEPTA-FURANS		242	0.0502		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:21:33; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB5_L14065-9_Form1A_DX0M_015S21_SJ1108228.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS507-010
Sample Collection:
16-Dec-2009 13:34

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-9 R
Matrix:	SOLID	**Sample Size:**	10.1 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 02:14:54	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_033 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_033 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	50.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.55	0.147	0.87	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:22:20; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB225_L14065-9_Form1A_DB0B_033S11_SJ1107314.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS508-010
Sample Collection:
15-Dec-2009 19:45

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-1 R
Matrix:	SOLID	**Sample Size:**	10.6 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	29-Jan-2010 **Time:** 00:57:51	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_012 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_012 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_012 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	44.6

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.058	0.0474	0.44	1.001
1,2,3,7,8-PECDD [3]	U		0.0474		
1,2,3,4,7,8-HXCDD	K J	0.061	0.0474	1.96	1.001
1,2,3,6,7,8-HXCDD	J	0.081	0.0474	1.25	1.000
1,2,3,7,8,9-HXCDD	J	0.198	0.0474	1.42	1.001
1,2,3,4,6,7,8-HPCDD	B J	1.48	0.0474	0.98	1.000
OCDD	B	11.3	0.0474	0.88	1.000
2,3,7,8-TCDF	U		0.0474		
1,2,3,7,8-PECDF	U		0.0474		
2,3,4,7,8-PECDF	U		0.0474		
1,2,3,4,7,8-HXCDF	U		0.0474		
1,2,3,6,7,8-HXCDF	U		0.0474		
1,2,3,7,8,9-HXCDF	U		0.0474		
2,3,4,6,7,8-HXCDF	U		0.0474		
1,2,3,4,6,7,8-HPCDF	J	0.203	0.0474	1.05	1.000
1,2,3,4,7,8,9-HPCDF	U		0.0474		
OCDF	J	0.673	0.0474	0.90	1.002
TOTAL TETRA-DIOXINS		0.207	0.0474		
TOTAL PENTA-DIOXINS		0.099	0.0474		
TOTAL HEXA-DIOXINS		1.44	0.0474		
TOTAL HEPTA-DIOXINS	B	3.59	0.0474		
TOTAL TETRA-FURANS		0.296	0.0474		
TOTAL PENTA-FURANS		0.070	0.0474		
TOTAL HEXA-FURANS		0.217	0.0474		
TOTAL HEPTA-FURANS		0.527	0.0474		

(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; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 09:23:13; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-1_Form1A_DX0M_012S6_SJ1105764.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS509-010
Sample Collection:
15-Dec-2009 22:00

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-4 R
Matrix:	SOLID	**Sample Size:**	10.6 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	04-Feb-2010 **Time:** 01:10:04	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 34**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 28
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	45.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	B	5.59	0.0471	0.69	1.001
1,2,3,7,8-PECDD [3]		15.3	0.0471	0.60	1.001
1,2,3,4,7,8-HXCDD		13.7	0.0634	1.23	1.000
1,2,3,6,7,8-HXCDD		47.7	0.0634	1.21	1.000
1,2,3,7,8,9-HXCDD		41.8	0.0634	1.21	1.000
1,2,3,4,6,7,8-HPCDD		600	0.121	1.00	1.000
OCDD	B	5090	0.0471	0.87	1.000
2,3,7,8-TCDF		187	0.0588	0.75	1.003
1,2,3,7,8-PECDF		28.8	0.0627	1.51	1.001
2,3,4,7,8-PECDF		54.8	0.0627	1.51	1.001
1,2,3,4,7,8-HXCDF		39.4	0.0627	1.22	1.000
1,2,3,6,7,8-HXCDF		30.2	0.0627	1.22	1.001
1,2,3,7,8,9-HXCDF	J	2.35	0.0627	1.32	1.001
2,3,4,6,7,8-HXCDF		32.9	0.0627	1.19	1.001
1,2,3,4,6,7,8-HPCDF		219	0.0989	1.00	1.000
1,2,3,4,7,8,9-HPCDF		11.5	0.0989	1.00	1.000
OCDF		385	0.0471	0.86	1.002
TOTAL TETRA-DIOXINS		205	0.0471		
TOTAL PENTA-DIOXINS		232	0.0471		
TOTAL HEXA-DIOXINS		511	0.0634		
TOTAL HEPTA-DIOXINS		1910	0.121		
TOTAL TETRA-FURANS		1090	0.0588		
TOTAL PENTA-FURANS		716	0.0627		
TOTAL HEXA-FURANS		566	0.0627		
TOTAL HEPTA-FURANS		594	0.0989		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:21:33; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB5_L14065-4_Form1A_DX0M_015S34_SJ1108581.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS509-010
Sample Collection:
15-Dec-2009 22:00

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-4 R
Matrix:	SOLID	**Sample Size:**	10.6 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	02-Feb-2010 **Time:** 23:51:43	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_033 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_033 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	45.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		55.4	3.43	0.80	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:22:20; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB225_L14065-4_Form1A_DB0B_033S7_SJ1107310.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS510-010
Sample Collection:
16-Dec-2009 14:02

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-10 R
Matrix:	SOLID	**Sample Size:**	10.5 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 13:45:44	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 22**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 17
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	51.8

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	B J	0.324	0.0477	0.67	1.001
1,2,3,7,8-PECDD [3]	J	1.04	0.0477	0.62	1.001
1,2,3,4,7,8-HXCDD	J	1.61	0.0477	1.17	1.000
1,2,3,6,7,8-HXCDD		5.92	0.0477	1.24	1.000
1,2,3,7,8,9-HXCDD	J	4.64	0.0477	1.26	1.000
1,2,3,4,6,7,8-HPCDD		141	0.0550	1.02	1.000
OCDD	B	1380	0.0477	0.87	1.000
2,3,7,8-TCDF		2.78	0.0477	0.75	1.001
1,2,3,7,8-PECDF	J	0.472	0.0477	1.49	1.001
2,3,4,7,8-PECDF	J	0.994	0.0477	1.50	1.001
1,2,3,4,7,8-HXCDF	J	3.56	0.0496	1.20	1.000
1,2,3,6,7,8-HXCDF	J	1.17	0.0496	1.23	1.000
1,2,3,7,8,9-HXCDF	J	0.106	0.0496	1.31	1.000
2,3,4,6,7,8-HXCDF	J	0.901	0.0496	1.35	1.000
1,2,3,4,6,7,8-HPCDF		29.6	0.0477	1.01	1.000
1,2,3,4,7,8,9-HPCDF	J	2.27	0.0477	1.03	1.000
OCDF		149	0.0477	0.85	1.002
TOTAL TETRA-DIOXINS		4.03	0.0477		
TOTAL PENTA-DIOXINS		7.47	0.0477		
TOTAL HEXA-DIOXINS		56.8	0.0477		
TOTAL HEPTA-DIOXINS		410	0.0550		
TOTAL TETRA-FURANS		13.7	0.0477		
TOTAL PENTA-FURANS		17.7	0.0477		
TOTAL HEXA-FURANS		46.0	0.0496		
TOTAL HEPTA-FURANS		122	0.0477		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:21:33; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB5_L14065-10_Form1A_DX0M_015S22_SJ1108229.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS510-010
Sample Collection:
16-Dec-2009 14:02

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-10 R
Matrix:	SOLID	**Sample Size:**	10.5 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 02:50:44	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_033 S: 12**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_033 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	51.8

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.801	0.112	0.78	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:22:20; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB225_L14065-10_Form1A_DB0B_033S12_SJ1107315.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS511-010
Sample Collection:
17-Dec-2009 14:21

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-23
Matrix:	SOLID	**Sample Size:**	9.36 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	16-Jan-2010 **Time:** 07:31:05	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_007 S: 20**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_007 S: 11
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	43.6

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.386	0.0534	0.67	1.001
1,2,3,7,8-PECDD [3]	J	1.09	0.0534	0.62	1.000
1,2,3,4,7,8-HXCDD	J	1.92	0.0534	1.25	1.000
1,2,3,6,7,8-HXCDD		7.40	0.0534	1.28	1.000
1,2,3,7,8,9-HXCDD		5.81	0.0534	1.22	1.000
1,2,3,4,6,7,8-HPCDD		192	0.0900	1.03	1.000
OCDD	B	1960	0.0625	0.86	1.000
2,3,7,8-TCDF		3.26	0.0534	0.75	1.002
1,2,3,7,8-PECDF	J	0.550	0.0534	1.62	1.001
2,3,4,7,8-PECDF	J	1.30	0.0534	1.48	1.001
1,2,3,4,7,8-HXCDF	J	4.79	0.0534	1.25	1.000
1,2,3,6,7,8-HXCDF	J	1.48	0.0534	1.16	1.001
1,2,3,7,8,9-HXCDF	K J	0.108	0.0534	0.80	1.000
2,3,4,6,7,8-HXCDF	J	1.24	0.0534	1.19	1.001
1,2,3,4,6,7,8-HPCDF		35.9	0.0572	1.00	1.000
1,2,3,4,7,8,9-HPCDF	J	2.63	0.0572	0.95	1.000
OCDF		168	0.0770	0.86	1.002
TOTAL TETRA-DIOXINS		4.90	0.0534		
TOTAL PENTA-DIOXINS		7.80	0.0534		
TOTAL HEXA-DIOXINS		73.1	0.0534		
TOTAL HEPTA-DIOXINS		594	0.0900		
TOTAL TETRA-FURANS		18.4	0.0534		
TOTAL PENTA-FURANS		21.6	0.0534		
TOTAL HEXA-FURANS		59.7	0.0534		
TOTAL HEPTA-FURANS		133	0.0572		

(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; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-23_Form1A_DX0M_007S20_SJ1100164.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS511-010
Sample Collection:
17-Dec-2009 14:21

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-23
Matrix:	SOLID	**Sample Size:**	9.36 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	15-Jan-2010 **Time:** 00:08:00	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_015 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_015 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	43.6

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	1.00	0.0956	0.69	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-23_Form1A_DB0B_015S8_SJ1099710.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS512-010
Sample Collection:
16-Dec-2009 14:17

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-11 R
Matrix:	SOLID	**Sample Size:**	10.1 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	29-Jan-2010 **Time:** 03:42:52	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_012 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_012 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_012 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	66.0

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.217	0.0496	0.52	1.001
1,2,3,7,8-PECDD [3]	J	0.743	0.0496	0.58	1.001
1,2,3,4,7,8-HXCDD	J	1.25	0.0496	1.17	1.000
1,2,3,6,7,8-HXCDD	J	5.20	0.0496	1.17	1.000
1,2,3,7,8,9-HXCDD	J	4.12	0.0496	1.16	1.000
1,2,3,4,6,7,8-HPCDD	B	145	0.0971	1.00	1.000
OCDD	B	1590	0.0496	0.89	1.000
2,3,7,8-TCDF		2.20	0.0496	0.74	1.002
1,2,3,7,8-PECDF	J	0.424	0.0496	1.37	1.001
2,3,4,7,8-PECDF	J	0.970	0.0496	1.48	1.001
1,2,3,4,7,8-HXCDF	J	4.46	0.0496	1.21	1.000
1,2,3,6,7,8-HXCDF	J	1.19	0.0496	1.18	1.000
1,2,3,7,8,9-HXCDF	J	0.096	0.0496	1.11	1.001
2,3,4,6,7,8-HXCDF	J	0.782	0.0496	1.14	1.000
1,2,3,4,6,7,8-HPCDF		30.8	0.0610	1.03	1.000
1,2,3,4,7,8,9-HPCDF	J	2.43	0.0610	0.96	1.000
OCDF		136	0.0496	0.86	1.002
TOTAL TETRA-DIOXINS		2.77	0.0496		
TOTAL PENTA-DIOXINS		5.91	0.0496		
TOTAL HEXA-DIOXINS		53.0	0.0496		
TOTAL HEPTA-DIOXINS	B	469	0.0971		
TOTAL TETRA-FURANS		12.6	0.0496		
TOTAL PENTA-FURANS		16.1	0.0496		
TOTAL HEXA-FURANS		45.7	0.0496		
TOTAL HEPTA-FURANS		119	0.0610		

(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; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 09:23:13; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-11_Form1A_DX0M_012S9_SJ1105767.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS512-010
Sample Collection:
16-Dec-2009 14:17

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-11 R
Matrix:	SOLID	**Sample Size:**	10.1 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	01-Feb-2010 **Time:** 16:21:19	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_031A S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_031A S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	66.0

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.692	0.0902	0.67	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 13:54:11; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-11_Form1A_DB0B_031AS11_SJ1106679.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS513-010
Sample Collection:
17-Dec-2009 14:10

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-24 L2W
Matrix:	SOLID	**Sample Size:**	9.41 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	25-Jan-2010 **Time:** 20:22:33	**GC Column ID:**	DB5
Extract Volume (uL):	50	**Sample Data Filename:**	**DX0M_010 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_010 S: 3
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	47.2

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.588	0.144	0.53	1.001
1,2,3,7,8-PECDD [3]	J	2.11	0.156	0.70	1.001
1,2,3,4,7,8-HXCDD	J	4.61	0.203	1.12	1.000
1,2,3,6,7,8-HXCDD		22.5	0.203	1.21	1.000
1,2,3,7,8,9-HXCDD	J	13.7	0.203	1.07	1.000
1,2,3,4,6,7,8-HPCDD		690	0.714	1.05	1.000
OCDD	B	6650	0.373	0.87	1.000
2,3,7,8-TCDF		7.50	0.164	0.78	1.002
1,2,3,7,8-PECDF	K J	1.80	0.170	1.26	1.000
2,3,4,7,8-PECDF	J	3.56	0.170	1.58	1.002
1,2,3,4,7,8-HXCDF		19.6	0.206	1.28	1.000
1,2,3,6,7,8-HXCDF	J	7.00	0.206	1.23	1.000
1,2,3,7,8,9-HXCDF	K J	0.500	0.206	0.97	1.001
2,3,4,6,7,8-HXCDF	J	3.24	0.206	1.33	1.001
1,2,3,4,6,7,8-HPCDF		150	0.355	0.98	1.000
1,2,3,4,7,8,9-HPCDF	J	12.8	0.355	0.97	1.000
OCDF		760	0.466	0.85	1.002
TOTAL TETRA-DIOXINS		7.48	0.144		
TOTAL PENTA-DIOXINS	J	13.0	0.156		
TOTAL HEXA-DIOXINS		204	0.203		
TOTAL HEPTA-DIOXINS		2030	0.714		
TOTAL TETRA-FURANS		42.1	0.164		
TOTAL PENTA-FURANS		62.9	0.170		
TOTAL HEXA-FURANS		214	0.206		
TOTAL HEPTA-FURANS		662	0.355		

(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; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-24_Form1A_DX0M_010S10_SJ1104550.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS513-010
Sample Collection:
17-Dec-2009 14:10

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-24 L
Matrix:	SOLID	**Sample Size:**	9.41 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	21-Jan-2010 **Time:** 00:17:47	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_021 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_021 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	47.2

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		2.48	0.184	0.86	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-24_Form1A_DB0B_021S7_SJ1102746.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS514-010
Sample Collection:
16-Dec-2009 14:31

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-12 R
Matrix:	SOLID	**Sample Size:**	11.3 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	04-Feb-2010 **Time:** 00:15:08	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 33**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 28
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	60.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	B J	0.381	0.0443	0.66	1.001
1,2,3,7,8-PECDD [3]	J	1.43	0.0443	0.57	1.001
1,2,3,4,7,8-HXCDD	J	2.41	0.0443	1.23	1.000
1,2,3,6,7,8-HXCDD		12.9	0.0443	1.23	1.001
1,2,3,7,8,9-HXCDD		7.65	0.0443	1.22	1.000
1,2,3,4,6,7,8-HPCDD		333	0.0969	1.04	1.000
OCDD	B	3450	0.0443	0.87	1.000
2,3,7,8-TCDF		4.06	0.0443	0.76	1.002
1,2,3,7,8-PECDF	J	1.14	0.0443	1.51	1.001
2,3,4,7,8-PECDF	J	3.48	0.0443	1.52	1.001
1,2,3,4,7,8-HXCDF		24.2	0.0443	1.22	1.000
1,2,3,6,7,8-HXCDF		4.58	0.0443	1.19	1.001
1,2,3,7,8,9-HXCDF	J	0.335	0.0443	1.17	1.000
2,3,4,6,7,8-HXCDF	J	2.53	0.0443	1.18	1.001
1,2,3,4,6,7,8-HPCDF		93.2	0.0443	1.00	1.000
1,2,3,4,7,8,9-HPCDF		10.7	0.0443	1.03	1.000
OCDF		312	0.0443	0.86	1.002
TOTAL TETRA-DIOXINS		6.75	0.0443		
TOTAL PENTA-DIOXINS		11.3	0.0443		
TOTAL HEXA-DIOXINS		111	0.0443		
TOTAL HEPTA-DIOXINS		973	0.0969		
TOTAL TETRA-FURANS		26.9	0.0443		
TOTAL PENTA-FURANS		46.6	0.0443		
TOTAL HEXA-FURANS		164	0.0443		
TOTAL HEPTA-FURANS		360	0.0443		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:21:33; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB5_L14065-12_Form1A_DX0M_015S33_SJ1108580.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS514-010
Sample Collection:
16-Dec-2009 14:31

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-12 R
Matrix:	SOLID	**Sample Size:**	11.3 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 03:26:31	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_033 S: 13**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_033 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	60.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.62	0.143	0.77	1.000

(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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:22:20; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB225_L14065-12_Form1A_DB0B_033S13_SJ1107316.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS515-010
Sample Collection:
16-Dec-2009 10:53

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-13 R
Matrix:	SOLID	**Sample Size:**	9.27 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 18:38:51	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 27**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 17
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	51.2

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	B J	0.696	0.0539	0.71	1.001
1,2,3,7,8-PECDD [3]	J	2.27	0.0539	0.67	1.001
1,2,3,4,7,8-HXCDD	J	3.70	0.0539	1.26	1.000
1,2,3,6,7,8-HXCDD		13.0	0.0539	1.22	1.000
1,2,3,7,8,9-HXCDD		10.0	0.0539	1.20	1.000
1,2,3,4,6,7,8-HPCDD		289	0.113	1.02	1.000
OCDD	B	2800	0.0539	0.87	1.000
2,3,7,8-TCDF		5.00	0.0539	0.76	1.002
1,2,3,7,8-PECDF	J	1.06	0.0539	1.37	1.001
2,3,4,7,8-PECDF	J	2.22	0.0539	1.46	1.001
1,2,3,4,7,8-HXCDF		7.53	0.0539	1.16	1.001
1,2,3,6,7,8-HXCDF	J	2.69	0.0539	1.21	1.000
1,2,3,7,8,9-HXCDF	J	0.200	0.0539	1.30	1.000
2,3,4,6,7,8-HXCDF	J	2.19	0.0539	1.11	1.000
1,2,3,4,6,7,8-HPCDF		56.2	0.0648	1.03	1.000
1,2,3,4,7,8,9-HPCDF	J	4.20	0.0648	1.01	1.000
OCDF		242	0.0539	0.87	1.002
TOTAL TETRA-DIOXINS		8.08	0.0539		
TOTAL PENTA-DIOXINS		15.8	0.0539		
TOTAL HEXA-DIOXINS		107	0.0539		
TOTAL HEPTA-DIOXINS		814	0.113		
TOTAL TETRA-FURANS		32.4	0.0539		
TOTAL PENTA-FURANS		46.0	0.0539		
TOTAL HEXA-FURANS		95.7	0.0539		
TOTAL HEPTA-FURANS		205	0.0648		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:21:33; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB5_L14065-13_Form1A_DX0M_015S27_SJ1108234.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS515-010
Sample Collection:
16-Dec-2009 10:53

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-13 R
Matrix:	SOLID	**Sample Size:**	9.27 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 04:02:21	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_033 S: 14**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_033 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	51.2

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.72	0.239	0.79	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:22:20; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB225_L14065-13_Form1A_DB0B_033S14_SJ1107317.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS516-010
Sample Collection:
16-Dec-2009 15:06

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-14 R
Matrix:	SOLID	**Sample Size:**	10.7 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 14:40:47	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 23**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 17
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	56.3

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	B J	0.395	0.0466	0.66	1.001
1,2,3,7,8-PECDD [3]	J	1.09	0.0466	0.64	1.001
1,2,3,4,7,8-HXCDD	J	1.87	0.0466	1.24	1.000
1,2,3,6,7,8-HXCDD		8.76	0.0466	1.18	1.000
1,2,3,7,8,9-HXCDD		5.43	0.0466	1.21	1.000
1,2,3,4,6,7,8-HPCDD		223	0.0536	1.05	1.000
OCDD	B	2380	0.0466	0.87	1.000
2,3,7,8-TCDF		4.20	0.0466	0.74	1.002
1,2,3,7,8-PECDF	J	1.00	0.0466	1.53	1.001
2,3,4,7,8-PECDF	J	3.29	0.0466	1.55	1.000
1,2,3,4,7,8-HXCDF		16.5	0.0466	1.21	1.000
1,2,3,6,7,8-HXCDF	J	3.06	0.0466	1.26	1.000
1,2,3,7,8,9-HXCDF	J	0.231	0.0466	1.26	1.001
2,3,4,6,7,8-HXCDF	J	1.68	0.0466	1.26	1.000
1,2,3,4,6,7,8-HPCDF		56.9	0.0505	1.01	1.000
1,2,3,4,7,8,9-HPCDF		4.82	0.0505	1.00	1.000
OCDF		272	0.0466	0.86	1.002
TOTAL TETRA-DIOXINS		4.61	0.0466		
TOTAL PENTA-DIOXINS		8.31	0.0466		
TOTAL HEXA-DIOXINS		69.7	0.0466		
TOTAL HEPTA-DIOXINS		562	0.0536		
TOTAL TETRA-FURANS		22.0	0.0466		
TOTAL PENTA-FURANS		41.3	0.0466		
TOTAL HEXA-FURANS		117	0.0466		
TOTAL HEPTA-FURANS		239	0.0505		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:21:33; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB5_L14065-14_Form1A_DX0M_015S23_SJ1108230.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS516-010
Sample Collection:
16-Dec-2009 15:06

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-14 R
Matrix:	SOLID	**Sample Size:**	10.7 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 04:38:08	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_033 S: 15**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_033 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	56.3

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.13	0.131	0.73	1.000

(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: _____Shelley Facchin_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L14065-14_Form1A_DB0B_033S15_SJ1107318.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS517-010
Sample Collection:
16-Dec-2009 15:21

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-15 R
Matrix:	SOLID	**Sample Size:**	10.4 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 17:34:39	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 26**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 17
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	56.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	B J	0.488	0.0480	0.66	1.001
1,2,3,7,8-PECDD [3]	J	1.53	0.0480	0.63	1.001
1,2,3,4,7,8-HXCDD	J	2.63	0.0480	1.31	1.000
1,2,3,6,7,8-HXCDD		11.4	0.0480	1.24	1.000
1,2,3,7,8,9-HXCDD		7.85	0.0480	1.21	1.000
1,2,3,4,6,7,8-HPCDD		304	0.107	1.01	1.000
OCDD	B	2970	0.0480	0.88	1.000
2,3,7,8-TCDF		5.35	0.0480	0.76	1.002
1,2,3,7,8-PECDF	J	0.754	0.0480	1.47	1.001
2,3,4,7,8-PECDF	J	2.02	0.0480	1.50	1.001
1,2,3,4,7,8-HXCDF		7.62	0.0480	1.19	1.001
1,2,3,6,7,8-HXCDF	J	2.09	0.0480	1.20	1.000
1,2,3,7,8,9-HXCDF	J	0.158	0.0480	1.09	1.000
2,3,4,6,7,8-HXCDF	J	1.55	0.0480	1.17	1.000
1,2,3,4,6,7,8-HPCDF		62.9	0.0780	1.01	1.000
1,2,3,4,7,8,9-HPCDF		4.96	0.0780	0.96	1.000
OCDF		346	0.0480	0.86	1.002
TOTAL TETRA-DIOXINS		5.67	0.0480		
TOTAL PENTA-DIOXINS		13.0	0.0480		
TOTAL HEXA-DIOXINS		108	0.0480		
TOTAL HEPTA-DIOXINS		865	0.107		
TOTAL TETRA-FURANS		27.4	0.0480		
TOTAL PENTA-FURANS		30.3	0.0480		
TOTAL HEXA-FURANS		90.7	0.0480		
TOTAL HEPTA-FURANS		267	0.0780		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:21:33; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB5_L14065-15_Form1A_DX0M_015S26_SJ1108233.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS517-010
Sample Collection:
16-Dec-2009 15:21

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-15 R
Matrix:	SOLID	**Sample Size:**	10.4 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 05:13:57	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_033 S: 16**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_033 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	56.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.57	0.148	0.81	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:22:20; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB225_L14065-15_Form1A_DB0B_033S16_SJ1107319.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS518-010
Sample Collection:
16-Dec-2009 15:37

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-16 R
Matrix:	SOLID	**Sample Size:**	10.1 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	29-Jan-2010 **Time:** 09:29:43	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_012 S: 15**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_012 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_012 S: 12
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	53.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.226	0.0494	0.60	1.001
1,2,3,7,8-PECDD [3]	J	0.560	0.0494	0.55	1.000
1,2,3,4,7,8-HXCDD	J	0.903	0.0494	1.22	1.000
1,2,3,6,7,8-HXCDD	J	2.52	0.0494	1.22	1.001
1,2,3,7,8,9-HXCDD	J	2.56	0.0494	1.31	1.000
1,2,3,4,6,7,8-HPCDD	B	55.1	0.105	1.03	1.000
OCDD	B	525	0.0494	0.86	1.000
2,3,7,8-TCDF	J	0.910	0.0494	0.77	1.002
1,2,3,7,8-PECDF	J	0.262	0.0494	1.51	1.001
2,3,4,7,8-PECDF	J	0.423	0.0494	1.37	1.001
1,2,3,4,7,8-HXCDF	J	1.26	0.0494	1.27	1.000
1,2,3,6,7,8-HXCDF	J	0.494	0.0494	1.13	1.001
1,2,3,7,8,9-HXCDF	J	0.067	0.0494	1.12	1.001
2,3,4,6,7,8-HXCDF	J	0.387	0.0494	1.24	1.000
1,2,3,4,6,7,8-HPCDF		9.79	0.0494	1.06	1.001
1,2,3,4,7,8,9-HPCDF	J	0.793	0.0494	0.95	1.000
OCDF		36.4	0.0494	0.85	1.002
TOTAL TETRA-DIOXINS		2.13	0.0494		
TOTAL PENTA-DIOXINS		3.94	0.0494		
TOTAL HEXA-DIOXINS		24.3	0.0494		
TOTAL HEPTA-DIOXINS	B	139	0.105		
TOTAL TETRA-FURANS		6.11	0.0494		
TOTAL PENTA-FURANS		6.68	0.0494		
TOTAL HEXA-FURANS		14.8	0.0494		
TOTAL HEPTA-FURANS		30.3	0.0494		

(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; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 09:23:13; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-16_Form1A_DX0M_012S15_SJ1106142.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS518-010
Sample Collection:
16-Dec-2009 15:37

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-16 R
Matrix:	SOLID	**Sample Size:**	10.1 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	01-Feb-2010 **Time:** 12:11:17	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_031A S: 4**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_031A S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	53.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.351	0.0883	0.75	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 13:54:11; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-16_Form1A_DB0B_031AS4_SJ1106672.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS519-010
Sample Collection:
16-Dec-2009 14:53

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-17 R
Matrix:	SOLID	**Sample Size:**	10.7 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	29-Jan-2010 **Time:** 10:24:45	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_012 S: 16**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_012 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_012 S: 12
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	50.3

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.354	0.0469	0.80	1.001
1,2,3,7,8-PECDD [3]	J	0.675	0.0469	0.53	1.001
1,2,3,4,7,8-HXCDD	J	1.19	0.0471	1.28	1.000
1,2,3,6,7,8-HXCDD	J	4.02	0.0471	1.28	1.000
1,2,3,7,8,9-HXCDD	J	3.33	0.0471	1.12	1.000
1,2,3,4,6,7,8-HPCDD	B	95.8	0.109	1.02	1.000
OCDD	B	892	0.0469	0.87	1.000
2,3,7,8-TCDF		1.62	0.0469	0.80	1.002
1,2,3,7,8-PECDF	J	0.314	0.0469	1.51	1.001
2,3,4,7,8-PECDF	J	0.696	0.0469	1.32	1.001
1,2,3,4,7,8-HXCDF	J	2.61	0.0469	1.24	1.001
1,2,3,6,7,8-HXCDF	J	0.845	0.0469	1.12	1.000
1,2,3,7,8,9-HXCDF	J	0.121	0.0469	1.22	1.000
2,3,4,6,7,8-HXCDF	J	0.657	0.0469	1.20	1.001
1,2,3,4,6,7,8-HPCDF		17.6	0.0590	1.03	1.000
1,2,3,4,7,8,9-HPCDF	J	1.52	0.0590	0.95	1.000
OCDF		74.8	0.0469	0.86	1.002
TOTAL TETRA-DIOXINS		4.42	0.0469		
TOTAL PENTA-DIOXINS		6.57	0.0469		
TOTAL HEXA-DIOXINS		38.5	0.0471		
TOTAL HEPTA-DIOXINS	B	261	0.109		
TOTAL TETRA-FURANS		10.6	0.0469		
TOTAL PENTA-FURANS		12.1	0.0469		
TOTAL HEXA-FURANS		30.3	0.0469		
TOTAL HEPTA-FURANS		65.8	0.0590		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 09:23:13; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-17_Form1A_DX0M_012S16_SJ1106143.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS519-010
Sample Collection:
16-Dec-2009 14:53

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-17 R
Matrix:	SOLID	**Sample Size:**	10.7 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	01-Feb-2010 **Time:** 15:09:49	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_031A S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_031A S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	50.3

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.596	0.0890	0.84	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_L14065-17_Form1A_DB0B_031AS9_SJ1106677.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS520-010
Sample Collection:
11-Jan-2010 10:03

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-8 (A)
Matrix:	SOLID	**Sample Size:**	10.7 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Feb-2010 **Time:** 02:39:30	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_019 S: 17**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_019 S: 6
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_019 S: 12
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	62.3

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD		0.378	0.0468	0.67	1.001
1,2,3,7,8-PECDD [3]		1.42	0.0468	0.63	1.001
1,2,3,4,7,8-HXCDD		2.49	0.0468	1.32	1.000
1,2,3,6,7,8-HXCDD		8.40	0.0468	1.26	1.000
1,2,3,7,8,9-HXCDD		7.80	0.0468	1.20	1.000
1,2,3,4,6,7,8-HPCDD		209	0.110	1.00	1.000
OCDD	B	1970	0.0468	0.86	1.000
2,3,7,8-TCDF		4.31	0.0468	0.77	1.002
1,2,3,7,8-PECDF	K J	0.722	0.0468	1.20	1.000
2,3,4,7,8-PECDF		1.80	0.0468	1.42	1.001
1,2,3,4,7,8-HXCDF		4.79	0.0468	1.21	1.000
1,2,3,6,7,8-HXCDF		2.22	0.0468	1.21	1.001
1,2,3,7,8,9-HXCDF	J	0.146	0.0468	1.35	1.000
2,3,4,6,7,8-HXCDF		2.47	0.0468	1.23	1.000
1,2,3,4,6,7,8-HPCDF		38.9	0.0497	1.03	1.000
1,2,3,4,7,8,9-HPCDF		2.65	0.0497	1.03	1.000
OCDF	B	151	0.0468	0.85	1.002
TOTAL TETRA-DIOXINS		4.57	0.0468		
TOTAL PENTA-DIOXINS		9.88	0.0468		
TOTAL HEXA-DIOXINS		76.6	0.0468		
TOTAL HEPTA-DIOXINS		612	0.110		
TOTAL TETRA-FURANS		23.7	0.0468		
TOTAL PENTA-FURANS		29.3	0.0468		
TOTAL HEXA-FURANS		61.5	0.0468		
TOTAL HEPTA-FURANS		138	0.0497		

(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; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB5_L14159-8_Form1A_DX0M_019S17_SJ1112919.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS520-010
Sample Collection:
11-Jan-2010 10:03

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-8 (A)
Matrix:	SOLID	**Sample Size:**	10.7 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 17:00:49	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_039 S: 13**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_039 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_039 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	62.3

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.12	0.144	0.75	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:53:00; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB225_L14159-8_Form1A_DB0B_039S13_SJ1111281.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS520-010 (Duplicate)
Sample Collection:
11-Jan-2010 10:03

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	WG31619-103 (DUP L14159-8)
Matrix:	SOLID	**Sample Size:**	10.9 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Feb-2010 **Time:** 03:34:33	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_019 S: 18**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_019 S: 6
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_019 S: 12
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	63.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD		0.378	0.0459	0.67	1.000
1,2,3,7,8-PECDD [3]		1.41	0.0459	0.55	1.001
1,2,3,4,7,8-HXCDD		2.40	0.0459	1.21	1.001
1,2,3,6,7,8-HXCDD		7.71	0.0459	1.15	1.000
1,2,3,7,8,9-HXCDD		7.12	0.0459	1.17	1.000
1,2,3,4,6,7,8-HPCDD		182	0.0910	1.03	1.000
OCDD	B	1850	0.0459	0.87	1.000
2,3,7,8-TCDF		3.73	0.0459	0.75	1.002
1,2,3,7,8-PECDF	J	0.595	0.0459	1.55	1.001
2,3,4,7,8-PECDF		1.38	0.0459	1.42	1.001
1,2,3,4,7,8-HXCDF		4.29	0.0459	1.13	1.000
1,2,3,6,7,8-HXCDF		1.77	0.0459	1.26	1.001
1,2,3,7,8,9-HXCDF	K J	0.140	0.0459	0.95	1.000
2,3,4,6,7,8-HXCDF		1.29	0.0459	1.28	1.001
1,2,3,4,6,7,8-HPCDF		33.5	0.0639	1.02	1.000
1,2,3,4,7,8,9-HPCDF		2.43	0.0639	1.00	1.000
OCDF	B	132	0.0459	0.85	1.002
TOTAL TETRA-DIOXINS		4.98	0.0459		
TOTAL PENTA-DIOXINS		9.54	0.0459		
TOTAL HEXA-DIOXINS		73.3	0.0459		
TOTAL HEPTA-DIOXINS		541	0.0910		
TOTAL TETRA-FURANS		21.8	0.0459		
TOTAL PENTA-FURANS		26.9	0.0459		
TOTAL HEXA-FURANS		54.1	0.0459		
TOTAL HEPTA-FURANS		117	0.0639		

(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; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:52:27; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB5_WG31619-103_Form1A_DX0M_019S18_SJ1112920.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS521-010
Sample Collection:
16-Dec-2009 15:51

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-18 Ri
Matrix:	SOLID	**Sample Size:**	9.94 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	01-Feb-2010 **Time:** 12:34:15	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_013 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_012 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_013 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	52.1

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.304	0.0503	0.72	1.001
1,2,3,7,8-PECDD [3]	J	0.713	0.0503	0.64	1.001
1,2,3,4,7,8-HXCDD	J	1.17	0.0503	1.17	1.000
1,2,3,6,7,8-HXCDD	J	4.24	0.0503	1.20	1.000
1,2,3,7,8,9-HXCDD	J	3.19	0.0503	1.22	1.000
1,2,3,4,6,7,8-HPCDD	B	97.1	0.0781	1.08	1.000
OCDD	B	984	0.0503	0.87	1.000
2,3,7,8-TCDF		1.79	0.0503	0.76	1.003
1,2,3,7,8-PECDF	J	0.327	0.0503	1.73	1.002
2,3,4,7,8-PECDF	J	0.761	0.0503	1.56	1.001
1,2,3,4,7,8-HXCDF	J	2.52	0.0503	1.23	1.000
1,2,3,6,7,8-HXCDF	J	0.872	0.0503	1.27	1.001
1,2,3,7,8,9-HXCDF	J	0.076	0.0503	1.08	1.001
2,3,4,6,7,8-HXCDF	J	0.708	0.0503	1.23	1.001
1,2,3,4,6,7,8-HPCDF		19.3	0.0503	1.00	1.000
1,2,3,4,7,8,9-HPCDF	J	1.56	0.0503	1.03	1.000
OCDF		90.4	0.0503	0.87	1.002
TOTAL TETRA-DIOXINS		3.78	0.0503		
TOTAL PENTA-DIOXINS		4.67	0.0503		
TOTAL HEXA-DIOXINS		36.3	0.0503		
TOTAL HEPTA-DIOXINS	B	270	0.0781		
TOTAL TETRA-FURANS		11.5	0.0503		
TOTAL PENTA-FURANS		12.7	0.0503		
TOTAL HEXA-FURANS		32.3	0.0503		
TOTAL HEPTA-FURANS		74.9	0.0503		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 09:23:13; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-18_Form1A_DX0M_013S5_SJ1106559.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS521-010
Sample Collection:
16-Dec-2009 15:51

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-18 R
Matrix:	SOLID	**Sample Size:**	9.94 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	01-Feb-2010 **Time:** 15:45:30	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_031A S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_031A S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	52.1

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.653	0.0714	0.81	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 13:54:11; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-18_Form1A_DB0B_031AS10_SJ1106678.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS522-010
Sample Collection:
16-Dec-2009 16:16

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-19 R
Matrix:	SOLID	**Sample Size:**	9.60 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	29-Jan-2010 **Time:** 12:14:39	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_012 S: 18**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_012 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_012 S: 12
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	43.6

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.660	0.0521	0.78	1.001
1,2,3,7,8-PECDD [3]	J	2.81	0.0521	0.58	1.001
1,2,3,4,7,8-HXCDD	J	5.08	0.0605	1.19	1.000
1,2,3,6,7,8-HXCDD		16.4	0.0605	1.22	1.001
1,2,3,7,8,9-HXCDD		14.1	0.0605	1.28	1.000
1,2,3,4,6,7,8-HPCDD	B	435	0.151	1.02	1.000
OCDD	B	4150	0.0521	0.87	1.000
2,3,7,8-TCDF		4.48	0.0521	0.74	1.002
1,2,3,7,8-PECDF	J	1.01	0.0521	1.44	1.001
2,3,4,7,8-PECDF	J	2.68	0.0521	1.60	1.001
1,2,3,4,7,8-HXCDF		10.4	0.0521	1.18	1.000
1,2,3,6,7,8-HXCDF	J	2.86	0.0521	1.15	1.001
1,2,3,7,8,9-HXCDF	J	0.218	0.0521	1.14	1.000
2,3,4,6,7,8-HXCDF	J	1.99	0.0521	1.16	1.001
1,2,3,4,6,7,8-HPCDF		62.3	0.0899	1.03	1.001
1,2,3,4,7,8,9-HPCDF	J	4.55	0.0899	1.00	1.000
OCDF		290	0.0521	0.86	1.002
TOTAL TETRA-DIOXINS		7.33	0.0521		
TOTAL PENTA-DIOXINS		14.7	0.0521		
TOTAL HEXA-DIOXINS		152	0.0605		
TOTAL HEPTA-DIOXINS	B	1210	0.151		
TOTAL TETRA-FURANS		25.8	0.0521		
TOTAL PENTA-FURANS		39.4	0.0521		
TOTAL HEXA-FURANS		103	0.0521		
TOTAL HEPTA-FURANS		233	0.0899		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 09:23:13; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-19_Form1A_DX0M_012S18_SJ1106145.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS522-010
Sample Collection:
16-Dec-2009 16:16

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-19 R
Matrix:	SOLID	**Sample Size:**	9.60 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	01-Feb-2010 **Time:** 16:56:59	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_031A S: 12**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_031A S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	43.6

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.52	0.234	0.77	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 13:54:11; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-19_Form1A_DB0B_031AS12_SJ1106680.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS523-010
Sample Collection:
15-Dec-2009 20:30

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-2 R
Matrix:	SOLID	**Sample Size:**	10.6 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 07:58:27	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 16**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 6
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	79.8

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	B J	0.438	0.0470	0.79	1.001
1,2,3,7,8-PECDD [3]	J	1.28	0.0470	0.58	1.001
1,2,3,4,7,8-HXCDD	J	2.37	0.0470	1.18	1.000
1,2,3,6,7,8-HXCDD		8.79	0.0470	1.18	1.000
1,2,3,7,8,9-HXCDD		7.65	0.0470	1.24	1.000
1,2,3,4,6,7,8-HPCDD		311	0.150	1.03	1.000
OCDD	B	3960	0.0470	0.86	1.000
2,3,7,8-TCDF		1.83	0.0470	0.77	1.002
1,2,3,7,8-PECDF	J	0.385	0.0470	1.33	1.001
2,3,4,7,8-PECDF	J	0.837	0.0470	1.44	1.001
1,2,3,4,7,8-HXCDF	J	2.92	0.0470	1.16	1.000
1,2,3,6,7,8-HXCDF	J	1.01	0.0470	1.16	1.001
1,2,3,7,8,9-HXCDF	J	0.104	0.0470	1.25	1.001
2,3,4,6,7,8-HXCDF	J	0.867	0.0470	1.25	1.001
1,2,3,4,6,7,8-HPCDF		27.8	0.0470	1.04	1.000
1,2,3,4,7,8,9-HPCDF	J	1.81	0.0470	0.91	1.000
OCDF		125	0.0470	0.86	1.002
TOTAL TETRA-DIOXINS		2.60	0.0470		
TOTAL PENTA-DIOXINS		6.11	0.0470		
TOTAL HEXA-DIOXINS		77.8	0.0470		
TOTAL HEPTA-DIOXINS		732	0.150		
TOTAL TETRA-FURANS		8.75	0.0470		
TOTAL PENTA-FURANS		14.4	0.0470		
TOTAL HEXA-FURANS		41.8	0.0470		
TOTAL HEPTA-FURANS		91.0	0.0470		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:21:33; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB5_L14065-2_Form1A_DX0M_015S16_SJ1107437.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS523-010
Sample Collection:
15-Dec-2009 20:30

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-2 R
Matrix:	SOLID	**Sample Size:**	10.6 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 09:22:11	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_034 S: 4**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_034 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	79.8

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.739	0.0622	0.71	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:22:20; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB225_L14065-2_Form1A_DB0B_034S4_SJ1107573.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS524-010
Sample Collection:
17-Dec-2009 07:51

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-25
Matrix:	SOLID	**Sample Size:**	9.33 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	16-Jan-2010 **Time:** 03:51:02	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_007 S: 16**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_007 S: 11
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	48.7

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.334	0.0536	0.71	1.001
1,2,3,7,8-PECDD [3]	J	0.815	0.0536	0.59	1.001
1,2,3,4,7,8-HXCDD	J	1.44	0.0536	1.16	1.000
1,2,3,6,7,8-HXCDD	J	5.92	0.0536	1.24	1.000
1,2,3,7,8,9-HXCDD	J	4.46	0.0536	1.22	1.000
1,2,3,4,6,7,8-HPCDD		164	0.0966	1.04	1.000
OCDD	B	1630	0.0536	0.88	1.000
2,3,7,8-TCDF		2.12	0.0536	0.76	1.002
1,2,3,7,8-PECDF	J	0.387	0.0536	1.55	1.001
2,3,4,7,8-PECDF	J	0.914	0.0536	1.55	1.001
1,2,3,4,7,8-HXCDF	J	2.93	0.0536	1.21	1.000
1,2,3,6,7,8-HXCDF	J	1.03	0.0536	1.31	1.000
1,2,3,7,8,9-HXCDF	J	0.071	0.0536	1.21	1.001
2,3,4,6,7,8-HXCDF	J	0.820	0.0536	1.16	1.000
1,2,3,4,6,7,8-HPCDF		23.4	0.0536	1.01	1.000
1,2,3,4,7,8,9-HPCDF	J	1.64	0.0536	0.94	1.001
OCDF		85.0	0.0536	0.85	1.002
TOTAL TETRA-DIOXINS		4.31	0.0536		
TOTAL PENTA-DIOXINS	J	5.69	0.0536		
TOTAL HEXA-DIOXINS		52.1	0.0536		
TOTAL HEPTA-DIOXINS		397	0.0966		
TOTAL TETRA-FURANS		13.4	0.0536		
TOTAL PENTA-FURANS		14.6	0.0536		
TOTAL HEXA-FURANS		33.5	0.0536		
TOTAL HEPTA-FURANS		79.9	0.0536		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-25_Form1A_DX0M_007S16_SJ1100160.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS524-010
Sample Collection:
17-Dec-2009 07:51

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-25
Matrix:	SOLID	**Sample Size:**	9.33 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	15-Jan-2010 **Time:** 01:19:36	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_015 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_015 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	48.7

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.622	0.0822	0.77	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-25_Form1A_DB0B_015S10_SJ1099712.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS525-010
Sample Collection:
16-Dec-2009 10:15

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-20 R
Matrix:	SOLID	**Sample Size:**	10.0 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 11:55:40	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 20**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 17
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	73.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K B J	0.113	0.0499	0.46	1.001
1,2,3,7,8-PECDD [3]	J	0.281	0.0499	0.64	1.001
1,2,3,4,7,8-HXCDD	J	0.473	0.0499	1.06	1.000
1,2,3,6,7,8-HXCDD	J	1.70	0.0499	1.18	1.000
1,2,3,7,8,9-HXCDD	J	1.57	0.0499	1.22	1.000
1,2,3,4,6,7,8-HPCDD		47.9	0.0718	1.01	1.000
OCDD	B	487	0.0499	0.87	1.000
2,3,7,8-TCDF	J	0.368	0.0499	0.83	1.003
1,2,3,7,8-PECDF	J	0.094	0.0499	1.70	1.002
2,3,4,7,8-PECDF	J	0.236	0.0499	1.45	1.001
1,2,3,4,7,8-HXCDF	J	1.01	0.0499	1.16	1.000
1,2,3,6,7,8-HXCDF	J	0.299	0.0499	1.19	1.000
1,2,3,7,8,9-HXCDF	J	0.148	0.0499	1.33	1.004
2,3,4,6,7,8-HXCDF	J	0.247	0.0499	1.23	1.001
1,2,3,4,6,7,8-HPCDF		8.46	0.0499	0.99	1.000
1,2,3,4,7,8,9-HPCDF	J	0.505	0.0499	1.01	1.001
OCDF		48.6	0.0499	0.85	1.002
TOTAL TETRA-DIOXINS		0.247	0.0499		
TOTAL PENTA-DIOXINS		1.52	0.0499		
TOTAL HEXA-DIOXINS		16.3	0.0499		
TOTAL HEPTA-DIOXINS		122	0.0718		
TOTAL TETRA-FURANS		1.99	0.0499		
TOTAL PENTA-FURANS		3.40	0.0499		
TOTAL HEXA-FURANS		9.53	0.0499		
TOTAL HEPTA-FURANS		27.4	0.0499		

(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; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:21:33; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB5_L14065-20_Form1A_DX0M_015S20_SJ1108227.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS526-010
Sample Collection:
16-Dec-2009 09:40

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-21
Matrix:	SOLID	**Sample Size:**	10.5 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	16-Jan-2010 **Time:** 06:36:09	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_007 S: 19**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_007 S: 11
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	68.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.524	0.0478	0.68	1.001
1,2,3,7,8-PECDD [3]	J	3.31	0.0478	0.59	1.001
1,2,3,4,7,8-HXCDD		6.78	0.0478	1.31	1.001
1,2,3,6,7,8-HXCDD		19.1	0.0478	1.22	1.000
1,2,3,7,8,9-HXCDD		18.8	0.0478	1.22	1.001
1,2,3,4,6,7,8-HPCDD		502	0.128	0.95	1.000
OCDD	E				
2,3,7,8-TCDF		4.35	0.0478	0.73	1.002
1,2,3,7,8-PECDF	J	0.538	0.0478	1.39	1.001
2,3,4,7,8-PECDF	J	1.44	0.0478	1.48	1.001
1,2,3,4,7,8-HXCDF		4.98	0.0478	1.19	1.000
1,2,3,6,7,8-HXCDF	J	2.24	0.0478	1.23	1.001
1,2,3,7,8,9-HXCDF	J	0.129	0.0478	1.12	1.001
2,3,4,6,7,8-HXCDF	J	1.79	0.0478	1.22	1.001
1,2,3,4,6,7,8-HPCDF		74.7	0.0478	1.01	1.000
1,2,3,4,7,8,9-HPCDF	J	4.72	0.0478	1.03	1.000
OCDF		205	0.0478	0.86	1.002
TOTAL TETRA-DIOXINS		5.67	0.0478		
TOTAL PENTA-DIOXINS		14.9	0.0478		
TOTAL HEXA-DIOXINS		139	0.0478		
TOTAL HEPTA-DIOXINS		1030	0.128		
TOTAL TETRA-FURANS		22.7	0.0478		
TOTAL PENTA-FURANS		29.1	0.0478		
TOTAL HEXA-FURANS		72.9	0.0478		
TOTAL HEPTA-FURANS		186	0.0478		

(1) Where applicable, custom lab flags have been used on this report; J = concentration less than LMCL; E = exceeds calibrated linear range, see dilution data.
(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: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-21_Form1A_DX0M_007S19_SJ1100163.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS526-010
Sample Collection:
16-Dec-2009 09:40

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-21 W
Matrix:	SOLID	**Sample Size:**	10.5 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	27-Jan-2010 **Time:** 05:11:01	**GC Column ID:**	DB5
Extract Volume (uL):	80	**Sample Data Filename:**	**DX0M_011 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	4	**Cal. Ver. Data Filename:**	DX0M_011 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	68.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	X				
1,2,3,7,8-PECDD [3]	X				
1,2,3,4,7,8-HXCDD	X				
1,2,3,6,7,8-HXCDD	X				
1,2,3,7,8,9-HXCDD	X				
1,2,3,4,6,7,8-HPCDD	X				
OCDD	B D	4480	0.157	0.88	1.000
2,3,7,8-TCDF	X				
1,2,3,7,8-PECDF	X				
2,3,4,7,8-PECDF	X				
1,2,3,4,7,8-HXCDF	X				
1,2,3,6,7,8-HXCDF	X				
1,2,3,7,8,9-HXCDF	X				
2,3,4,6,7,8-HXCDF	X				
1,2,3,4,6,7,8-HPCDF	X				
1,2,3,4,7,8,9-HPCDF	X				
OCDF	X				
TOTAL TETRA-DIOXINS	X				
TOTAL PENTA-DIOXINS	X				
TOTAL HEXA-DIOXINS	X				
TOTAL HEPTA-DIOXINS	X				
TOTAL TETRA-FURANS	X				
TOTAL PENTA-FURANS	X				
TOTAL HEXA-FURANS	X				
TOTAL HEPTA-FURANS	X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; X = result reported separately.
(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: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-21_Form1A_DX0M_011S11_SJ1104543.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS526-010
Sample Collection:
16-Dec-2009 09:40

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-21
Matrix:	SOLID	**Sample Size:**	10.5 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	14-Jan-2010 **Time:** 22:56:22	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_015 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_015 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	68.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.983	0.141	0.87	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-21_Form1A_DB0B_015S6_SJ1099708.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS527-010
Sample Collection:
17-Dec-2009 08:17

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-26
Matrix:	SOLID	**Sample Size:**	9.49 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	16-Jan-2010 **Time:** 04:46:04	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_007 S: 17**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_007 S: 11
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	45.7

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.306	0.0527	0.79	1.002
1,2,3,7,8-PECDD [3]	J	0.706	0.0527	0.62	1.001
1,2,3,4,7,8-HXCDD	J	1.12	0.0527	1.21	1.000
1,2,3,6,7,8-HXCDD	J	3.98	0.0527	1.20	1.001
1,2,3,7,8,9-HXCDD	J	3.65	0.0527	1.17	1.000
1,2,3,4,6,7,8-HPCDD		98.5	0.0726	1.00	1.000
OCDD	B	970	0.119	0.88	1.000
2,3,7,8-TCDF		1.68	0.0527	0.72	1.002
1,2,3,7,8-PECDF	J	0.329	0.0527	1.68	1.001
2,3,4,7,8-PECDF	J	0.763	0.0527	1.51	1.001
1,2,3,4,7,8-HXCDF	J	2.65	0.0527	1.28	1.001
1,2,3,6,7,8-HXCDF	J	0.890	0.0527	1.33	1.000
1,2,3,7,8,9-HXCDF	J	0.077	0.0527	1.10	1.000
2,3,4,6,7,8-HXCDF	J	0.660	0.0527	1.37	1.000
1,2,3,4,6,7,8-HPCDF		17.6	0.0527	1.00	1.000
1,2,3,4,7,8,9-HPCDF	J	1.36	0.0527	1.07	1.000
OCDF		66.1	0.0527	0.87	1.002
TOTAL TETRA-DIOXINS		3.33	0.0527		
TOTAL PENTA-DIOXINS	J	5.30	0.0527		
TOTAL HEXA-DIOXINS		36.6	0.0527		
TOTAL HEPTA-DIOXINS		271	0.0726		
TOTAL TETRA-FURANS		11.4	0.0527		
TOTAL PENTA-FURANS		11.9	0.0527		
TOTAL HEXA-FURANS		28.3	0.0527		
TOTAL HEPTA-FURANS		59.9	0.0527		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-26_Form1A_DX0M_007S17_SJ1100161.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS527-010
Sample Collection:
17-Dec-2009 08:17

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-26
Matrix:	SOLID	**Sample Size:**	9.49 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	15-Jan-2010 **Time:** 01:55:24	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_015 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_015 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	45.7

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.608	0.0527	0.73	1.002

(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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-26_Form1A_DB0B_015S11_SJ1099713.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS528-010
Sample Collection:
16-Dec-2009 09:12

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-22
Matrix:	SOLID	**Sample Size:**	9.32 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	16-Jan-2010 **Time:** 08:26:03	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_007 S: 21**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_007 S: 11
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	40.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.790	0.0536	0.70	1.001
1,2,3,7,8-PECDD [3]	J	2.89	0.0536	0.60	1.001
1,2,3,4,7,8-HXCDD	J	5.00	0.0536	1.19	1.000
1,2,3,6,7,8-HXCDD		16.2	0.0536	1.22	1.000
1,2,3,7,8,9-HXCDD		14.2	0.0536	1.19	1.000
1,2,3,4,6,7,8-HPCDD		357	0.105	1.01	1.000
OCDD	B	3330	0.0536	0.88	1.000
2,3,7,8-TCDF		9.64	0.0536	0.76	1.002
1,2,3,7,8-PECDF	J	2.07	0.0536	1.54	1.001
2,3,4,7,8-PECDF		5.17	0.0536	1.46	1.001
1,2,3,4,7,8-HXCDF		18.5	0.0536	1.21	1.001
1,2,3,6,7,8-HXCDF		7.39	0.0536	1.23	1.000
1,2,3,7,8,9-HXCDF	J	0.340	0.0536	1.34	1.000
2,3,4,6,7,8-HXCDF	J	3.52	0.0536	1.19	1.000
1,2,3,4,6,7,8-HPCDF		65.2	0.0636	1.01	1.000
1,2,3,4,7,8,9-HPCDF		7.35	0.0636	0.94	1.000
OCDF		205	0.0536	0.88	1.002
TOTAL TETRA-DIOXINS		12.0	0.0536		
TOTAL PENTA-DIOXINS		21.1	0.0536		
TOTAL HEXA-DIOXINS		145	0.0536		
TOTAL HEPTA-DIOXINS		892	0.105		
TOTAL TETRA-FURANS		85.6	0.0536		
TOTAL PENTA-FURANS		90.6	0.0536		
TOTAL HEXA-FURANS		139	0.0536		
TOTAL HEPTA-FURANS		206	0.0636		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-22_Form1A_DX0M_007S21_SJ1100165.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS528-010
Sample Collection:
16-Dec-2009 09:12

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-22
Matrix:	SOLID	**Sample Size:**	9.32 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	14-Jan-2010 **Time:** 23:32:10	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_015 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_015 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	40.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		5.54	0.256	0.77	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-22_Form1A_DB0B_015S7_SJ1099709.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS529-041-COMP
Sample Collection:
11-Jan-2010 20:56

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-3
Matrix:	SOLID	**Sample Size:**	10.4 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 17:33:25	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_019 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_019 S: 6
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_019 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	76.5

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD		0.459	0.0482	0.74	1.001
1,2,3,7,8-PECDD [3]		1.53	0.0482	0.61	1.001
1,2,3,4,7,8-HXCDD		2.47	0.0482	1.22	1.000
1,2,3,6,7,8-HXCDD		8.11	0.0482	1.21	1.000
1,2,3,7,8,9-HXCDD		6.80	0.0482	1.27	1.000
1,2,3,4,6,7,8-HPCDD		230	0.0753	1.01	1.000
OCDD	B	2370	0.0482	0.88	1.000
2,3,7,8-TCDF		5.92	0.0482	0.77	1.002
1,2,3,7,8-PECDF		1.02	0.0482	1.68	1.001
2,3,4,7,8-PECDF		2.06	0.0482	1.37	1.001
1,2,3,4,7,8-HXCDF		5.53	0.0482	1.22	1.000
1,2,3,6,7,8-HXCDF		2.34	0.0482	1.15	1.000
1,2,3,7,8,9-HXCDF	J	0.146	0.0482	1.35	1.000
2,3,4,6,7,8-HXCDF		1.81	0.0482	1.18	1.000
1,2,3,4,6,7,8-HPCDF		34.2	0.0482	1.03	1.000
1,2,3,4,7,8,9-HPCDF		3.25	0.0482	0.97	1.001
OCDF	B	151	0.0565	0.85	1.002
TOTAL TETRA-DIOXINS		12.0	0.0482		
TOTAL PENTA-DIOXINS		18.2	0.0482		
TOTAL HEXA-DIOXINS		64.8	0.0482		
TOTAL HEPTA-DIOXINS		427	0.0753		
TOTAL TETRA-FURANS		34.4	0.0482		
TOTAL PENTA-FURANS		32.2	0.0482		
TOTAL HEXA-FURANS		55.5	0.0482		
TOTAL HEPTA-FURANS		128	0.0482		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:52:27; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB5_L14159-3_Form1A_DX0M_019S9_SJ1112383.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS529-041-COMP
Sample Collection:
11-Jan-2010 20:56

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-3
Matrix:	SOLID	**Sample Size:**	10.4 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 14:01:28	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_039 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_039 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_039 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	76.5

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.98	0.132	0.72	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:53:00; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB225_L14159-3_Form1A_DB0B_039S8_SJ1111276.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS530-010
Sample Collection:
15-Dec-2009 21:23

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-3 R
Matrix:	SOLID	**Sample Size:**	9.98 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	03-Feb-2010 **Time:** 15:35:49	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_015 S: 24**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_015 S: 13
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_015 S: 17
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	62.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	B	1.77	0.0501	0.78	1.001
1,2,3,7,8-PECDD [3]		7.19	0.0501	0.60	1.001
1,2,3,4,7,8-HXCDD		10.6	0.0676	1.21	1.000
1,2,3,6,7,8-HXCDD		39.2	0.0676	1.20	1.000
1,2,3,7,8,9-HXCDD		32.9	0.0676	1.23	1.000
1,2,3,4,6,7,8-HPCDD		1030	0.226	1.01	1.000
OCDD	B	9590	0.0501	0.87	1.000
2,3,7,8-TCDF		11.6	0.0501	0.74	1.002
1,2,3,7,8-PECDF	J	2.21	0.0501	1.46	1.000
2,3,4,7,8-PECDF		4.83	0.0501	1.56	1.000
1,2,3,4,7,8-HXCDF		10.8	0.0501	1.17	1.001
1,2,3,6,7,8-HXCDF		5.23	0.0501	1.20	1.000
1,2,3,7,8,9-HXCDF	J	0.365	0.0501	1.15	1.000
2,3,4,6,7,8-HXCDF	J	4.86	0.0501	1.18	1.000
1,2,3,4,6,7,8-HPCDF		95.5	0.0728	1.03	1.000
1,2,3,4,7,8,9-HPCDF		6.76	0.0728	0.97	1.000
OCDF		303	0.0501	0.86	1.002
TOTAL TETRA-DIOXINS		18.1	0.0501		
TOTAL PENTA-DIOXINS		42.9	0.0501		
TOTAL HEXA-DIOXINS		463	0.0676		
TOTAL HEPTA-DIOXINS		4510	0.226		
TOTAL TETRA-FURANS		84.5	0.0501		
TOTAL PENTA-FURANS		125	0.0501		
TOTAL HEXA-FURANS		184	0.0501		
TOTAL HEPTA-FURANS		314	0.0728		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:21:33; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB5_L14065-3_Form1A_DX0M_015S24_SJ1108231.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS530-010
Sample Collection:
15-Dec-2009 21:23

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-3 R
Matrix:	SOLID	**Sample Size:**	9.98 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	27-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	02-Feb-2010 **Time:** 23:15:56	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_033 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_033 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	62.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		5.37	0.422	0.80	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 11-Feb-2010 08:22:20; Application: XMLTransformer-1.10.16;
Report Filename: 1613_DIOXINS_1613DB225_L14065-3_Form1A_DB0B_033S6_SJ1107309.html; Workgroup: WG31628; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS531-010-COMP
Sample Collection:
12-Jan-2010 20:30

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-4
Matrix:	SOLID	**Sample Size:**	10.7 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 18:28:28	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_019 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_019 S: 6
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_019 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	75.5

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.126	0.0467	0.56	1.001
1,2,3,7,8-PECDD [3]	J	0.354	0.0467	0.63	1.001
1,2,3,4,7,8-HXCDD	J	0.544	0.0467	1.17	1.000
1,2,3,6,7,8-HXCDD		1.85	0.0467	1.17	1.000
1,2,3,7,8,9-HXCDD		1.60	0.0467	1.20	1.000
1,2,3,4,6,7,8-HPCDD		38.6	0.0528	0.99	1.000
OCDD	B	365	0.0467	0.86	1.000
2,3,7,8-TCDF		0.703	0.0467	0.79	1.001
1,2,3,7,8-PECDF	J	0.212	0.0467	1.41	1.001
2,3,4,7,8-PECDF	J	0.298	0.0467	1.59	1.001
1,2,3,4,7,8-HXCDF	J	0.692	0.0467	1.19	1.001
1,2,3,6,7,8-HXCDF	J	0.369	0.0467	1.23	1.000
1,2,3,7,8,9-HXCDF	U		0.0467		
2,3,4,6,7,8-HXCDF	J	0.293	0.0467	1.24	1.000
1,2,3,4,6,7,8-HPCDF		6.47	0.0467	1.03	1.000
1,2,3,4,7,8,9-HPCDF	J	0.361	0.0467	1.12	1.000
OCDF	B	19.0	0.0467	0.87	1.002
TOTAL TETRA-DIOXINS		2.30	0.0467		
TOTAL PENTA-DIOXINS		3.67	0.0467		
TOTAL HEXA-DIOXINS		17.6	0.0467		
TOTAL HEPTA-DIOXINS		126	0.0528		
TOTAL TETRA-FURANS		4.67	0.0467		
TOTAL PENTA-FURANS		6.97	0.0467		
TOTAL HEXA-FURANS		12.3	0.0467		
TOTAL HEPTA-FURANS		19.4	0.0467		

(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; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:52:27; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB5_L14159-4_Form1A_DX0M_019S10_SJ1112371.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS531-010-COMP
Sample Collection:
12-Jan-2010 20:30

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-4
Matrix:	SOLID	**Sample Size:**	10.7 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 14:37:21	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_039 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_039 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_039 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	75.5

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.410	0.0990	0.75	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:53:00; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB225_L14159-4_Form1A_DB0B_039S9_SJ1111277.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS532-010
Sample Collection:
17-Dec-2009 08:43

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-27
Matrix:	SOLID	**Sample Size:**	11.0 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	16-Jan-2010 **Time:** 05:41:07	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_007 S: 18**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_007 S: 11
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	57.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.197	0.0455	0.67	1.002
1,2,3,7,8-PECDD [3]	J	0.524	0.0455	0.66	1.001
1,2,3,4,7,8-HXCDD	J	0.744	0.0455	1.32	1.000
1,2,3,6,7,8-HXCDD	J	2.60	0.0455	1.13	1.000
1,2,3,7,8,9-HXCDD	J	2.27	0.0455	1.27	1.000
1,2,3,4,6,7,8-HPCDD		62.7	0.0849	0.99	1.000
OCDD	B	737	0.0455	0.85	1.000
2,3,7,8-TCDF		1.74	0.0455	0.77	1.002
1,2,3,7,8-PECDF	J	0.357	0.0455	1.44	1.001
2,3,4,7,8-PECDF	J	0.773	0.0455	1.36	1.001
1,2,3,4,7,8-HXCDF	J	1.76	0.0455	1.16	1.001
1,2,3,6,7,8-HXCDF	J	0.745	0.0455	1.20	1.001
1,2,3,7,8,9-HXCDF	K J	0.053	0.0455	2.31	1.000
2,3,4,6,7,8-HXCDF	J	0.604	0.0455	1.38	1.000
1,2,3,4,6,7,8-HPCDF		14.0	0.0455	0.98	1.000
1,2,3,4,7,8,9-HPCDF	J	0.864	0.0455	0.98	1.000
OCDF		43.6	0.0455	0.85	1.002
TOTAL TETRA-DIOXINS		3.32	0.0455		
TOTAL PENTA-DIOXINS	J	4.47	0.0455		
TOTAL HEXA-DIOXINS		29.4	0.0455		
TOTAL HEPTA-DIOXINS		251	0.0849		
TOTAL TETRA-FURANS		16.3	0.0455		
TOTAL PENTA-FURANS		16.0	0.0455		
TOTAL HEXA-FURANS		21.5	0.0455		
TOTAL HEPTA-FURANS		39.2	0.0455		

(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; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-27_Form1A_DX0M_007S18_SJ1100162.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS532-010
Sample Collection:
17-Dec-2009 08:43

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-27
Matrix:	SOLID	**Sample Size:**	11.0 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	15-Jan-2010 **Time:** 02:31:14	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_015 S: 12**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_015 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	57.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.765	0.102	0.81	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-27_Form1A_DB0B_015S12_SJ1099714.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS533-043-COMP
Sample Collection:
12-Jan-2010 21:39

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-5
Matrix:	SOLID	**Sample Size:**	10.4 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 19:23:29	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_019 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_019 S: 6
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_019 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	73.6

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD		0.403	0.0480	0.74	1.001
1,2,3,7,8-PECDD [3]		1.22	0.0480	0.65	1.001
1,2,3,4,7,8-HXCDD		1.88	0.0480	1.27	1.000
1,2,3,6,7,8-HXCDD		6.10	0.0480	1.19	1.001
1,2,3,7,8,9-HXCDD		5.30	0.0480	1.22	1.000
1,2,3,4,6,7,8-HPCDD		122	0.0861	1.03	1.000
OCDD	B	980	0.0524	0.88	1.000
2,3,7,8-TCDF		2.20	0.0480	0.76	1.002
1,2,3,7,8-PECDF	J	0.541	0.0480	1.34	1.001
2,3,4,7,8-PECDF		1.24	0.0480	1.36	1.001
1,2,3,4,7,8-HXCDF		6.86	0.0480	1.16	1.001
1,2,3,6,7,8-HXCDF		1.78	0.0480	1.26	1.000
1,2,3,7,8,9-HXCDF	J	0.150	0.0480	1.33	1.001
2,3,4,6,7,8-HXCDF		1.22	0.0480	1.13	1.000
1,2,3,4,6,7,8-HPCDF		32.0	0.0496	1.02	1.000
1,2,3,4,7,8,9-HPCDF		3.29	0.0496	1.08	1.000
OCDF	B	86.2	0.0480	0.84	1.002
TOTAL TETRA-DIOXINS		6.20	0.0480		
TOTAL PENTA-DIOXINS		9.20	0.0480		
TOTAL HEXA-DIOXINS		47.3	0.0480		
TOTAL HEPTA-DIOXINS		242	0.0861		
TOTAL TETRA-FURANS		18.1	0.0480		
TOTAL PENTA-FURANS		28.4	0.0480		
TOTAL HEXA-FURANS		60.0	0.0480		
TOTAL HEPTA-FURANS		108	0.0496		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:52:27; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB5_L14159-5_Form1A_DX0M_019S11_SJ1112372.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS533-043-COMP
Sample Collection:
12-Jan-2010 21:39

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-5
Matrix:	SOLID	**Sample Size:**	10.4 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 15:13:14	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_039 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_039 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_039 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	73.6

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K J	0.998	0.174	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:53:00; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB225_L14159-5_Form1A_DB0B_039S10_SJ1111278.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS534-010
Sample Collection:
17-Dec-2009 08:56

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-28 R (A)
Matrix:	SOLID	**Sample Size:**	10.9 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	29-Jan-2010 **Time:** 13:09:41	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_012 S: 19**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_012 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_012 S: 12
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	71.8

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.169	0.0457	0.66	1.002
1,2,3,7,8-PECDD [3]	J	0.387	0.0457	0.58	1.001
1,2,3,4,7,8-HXCDD	J	0.670	0.0457	1.27	1.000
1,2,3,6,7,8-HXCDD	J	2.42	0.0457	1.10	1.000
1,2,3,7,8,9-HXCDD	J	1.97	0.0457	1.21	1.000
1,2,3,4,6,7,8-HPCDD	B	59.4	0.0540	0.97	1.000
OCDD	B	683	0.0457	0.87	1.000
2,3,7,8-TCDF		1.04	0.0457	0.70	1.002
1,2,3,7,8-PECDF	J	0.234	0.0457	1.45	1.001
2,3,4,7,8-PECDF	J	0.450	0.0457	1.67	1.001
1,2,3,4,7,8-HXCDF	J	1.56	0.0457	1.23	1.001
1,2,3,6,7,8-HXCDF	J	0.522	0.0457	1.18	1.000
1,2,3,7,8,9-HXCDF	U		0.0457		
2,3,4,6,7,8-HXCDF	J	0.449	0.0457	1.07	1.000
1,2,3,4,6,7,8-HPCDF		10.7	0.0457	1.00	1.000
1,2,3,4,7,8,9-HPCDF	J	0.757	0.0457	1.08	1.000
OCDF		43.7	0.0457	0.87	1.002
TOTAL TETRA-DIOXINS		1.59	0.0457		
TOTAL PENTA-DIOXINS		2.46	0.0457		
TOTAL HEXA-DIOXINS		22.9	0.0457		
TOTAL HEPTA-DIOXINS	B	214	0.0540		
TOTAL TETRA-FURANS		6.45	0.0457		
TOTAL PENTA-FURANS		8.37	0.0457		
TOTAL HEXA-FURANS		17.1	0.0457		
TOTAL HEPTA-FURANS		37.7	0.0457		

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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 03-Feb-2010 09:23:13; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-28_Form1A_DX0M_012S19_SJ1106146.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS534-010
Sample Collection:
17-Dec-2009 08:56

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-28 R (A)
Matrix:	SOLID	**Sample Size:**	10.9 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	01-Feb-2010 **Time:** 13:58:25	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_031A S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_031A S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	71.8

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K J	0.452	0.0796	0.97	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_L14065-28_Form1A_DB0B_031AS7_SJ1106675.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS534-010 (Duplicate)
Sample Collection:
17-Dec-2009 08:56

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	WG31593-103 (DUP L14065-28)
Matrix:	SOLID	**Sample Size:**	10.9 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	29-Jan-2010 **Time:** 14:04:37	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_012 S: 20**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_012 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_012 S: 12
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	72.1

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.189	0.0461	0.66	1.001
1,2,3,7,8-PECDD [3]	J	0.353	0.0461	0.69	1.001
1,2,3,4,7,8-HXCDD	J	0.590	0.0461	1.29	1.000
1,2,3,6,7,8-HXCDD	J	2.41	0.0461	1.25	1.000
1,2,3,7,8,9-HXCDD	J	1.80	0.0461	1.33	1.000
1,2,3,4,6,7,8-HPCDD	B	59.1	0.0751	1.05	1.000
OCDD	B	580	0.0461	0.86	1.000
2,3,7,8-TCDF		1.02	0.0461	0.78	1.001
1,2,3,7,8-PECDF	J	0.228	0.0461	1.75	1.001
2,3,4,7,8-PECDF	J	0.560	0.0461	1.60	1.001
1,2,3,4,7,8-HXCDF	J	2.75	0.0461	1.07	1.000
1,2,3,6,7,8-HXCDF	J	0.634	0.0461	1.09	1.000
1,2,3,7,8,9-HXCDF	U		0.0461		
2,3,4,6,7,8-HXCDF	J	0.495	0.0461	1.37	1.000
1,2,3,4,6,7,8-HPCDF		12.1	0.0461	0.99	1.000
1,2,3,4,7,8,9-HPCDF	J	1.18	0.0461	0.92	1.000
OCDF		45.5	0.0461	0.86	1.002
TOTAL TETRA-DIOXINS		2.57	0.0461		
TOTAL PENTA-DIOXINS		2.79	0.0461		
TOTAL HEXA-DIOXINS		20.0	0.0461		
TOTAL HEPTA-DIOXINS	B	146	0.0751		
TOTAL TETRA-FURANS		6.30	0.0461		
TOTAL PENTA-FURANS		8.38	0.0461		
TOTAL HEXA-FURANS		19.8	0.0461		
TOTAL HEPTA-FURANS		41.0	0.0461		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; B = analyte found in sample and the associated blank; 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_WG31593-103_Form1A_DX0M_012S20_SJ1106147.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS534-010 (Duplicate)
Sample Collection:
17-Dec-2009 08:56

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	WG31593-103 (DUP L14065-28)
Matrix:	SOLID	**Sample Size:**	10.9 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	01-Feb-2010 **Time:** 14:34:06	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_031A S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	N/A
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_031A S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	72.1

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.389	0.0785	0.88	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_WG31593-103_Form1A_DB0B_031AS8_SJ1106676.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

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. LDW DIOXIN AND FURAN SAMPLING

Contract No.: 4033

Client ID: LDW-SS534-010

Concentration Units: ng/kg (dry weight basis)

COMPOUND	L14065-28 (A)		WG31593-103		MEAN	RELATIVE PERCENT DIFFERENCE
	LAB FLAG [1]	CONC. FOUND	LAB FLAG [1]	CONC. FOUND		
2,3,7,8-TCDD	J	0.169	J	0.189	0.179	11.3
1,2,3,7,8-PECDD	J	0.387	J	0.353	0.370	9.22
1,2,3,4,7,8-HXCDD	J	0.670	J	0.590	0.630	12.6
1,2,3,6,7,8-HXCDD	J	2.42	J	2.41	2.41	0.615
1,2,3,7,8,9-HXCDD	J	1.97	J	1.80	1.89	8.92
1,2,3,4,6,7,8-HPCDD		59.4		59.1	59.3	0.403
OCDD		683		580	631	16.3
2,3,7,8-TCDF	K J	0.452	J	0.389		
1,2,3,7,8-PECDF	J	0.234	J	0.228	0.231	2.52
2,3,4,7,8-PECDF	J	0.450	J	0.560	0.505	21.9
1,2,3,4,7,8-HXCDF	J	1.56	J	2.75	2.15	55.4
1,2,3,6,7,8-HXCDF	J	0.522	J	0.634	0.578	19.4
1,2,3,7,8,9-HXCDF	U		U			
2,3,4,6,7,8-HXCDF	J	0.449	J	0.495	0.472	9.63
1,2,3,4,6,7,8-HPCDF		10.7		12.1	11.4	12.7
1,2,3,4,7,8,9-HPCDF	J	0.757	J	1.18	0.970	43.9
OCDF		43.7		45.5	44.6	4.05

(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: 03-Feb-2010 09:24:46; Application: XMLTransformer-1.10.15;
Report Filename: RPD_DIOXINS_1613-RPD_WG31593-103_L14065-28_.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS535-010
Sample Collection:
17-Dec-2009 09:29

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-29 i3
Matrix:	SOLID	**Sample Size:**	9.55 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	21-Jan-2010 **Time:** 20:04:00	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_009 S: 12**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_009 S: 8
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	67.0

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.303	0.0524	0.61	1.001
1,2,3,7,8-PECDD [3]	J	1.43	0.0524	0.55	1.001
1,2,3,4,7,8-HXCDD	J	2.26	0.0524	1.41	1.000
1,2,3,6,7,8-HXCDD		6.20	0.0524	1.20	1.000
1,2,3,7,8,9-HXCDD		6.09	0.0524	1.19	1.001
1,2,3,4,6,7,8-HPCDD		142	0.0702	1.03	1.000
OCDD	B	1520	0.0524	0.86	1.000
2,3,7,8-TCDF		2.34	0.0524	0.81	1.001
1,2,3,7,8-PECDF	J	0.617	0.0524	1.49	1.001
2,3,4,7,8-PECDF	J	1.53	0.0524	1.41	1.001
1,2,3,4,7,8-HXCDF	J	4.70	0.0524	1.22	1.000
1,2,3,6,7,8-HXCDF	J	1.97	0.0524	1.14	1.000
1,2,3,7,8,9-HXCDF	K J	0.084	0.0524	1.00	1.001
2,3,4,6,7,8-HXCDF	J	1.40	0.0524	1.20	1.000
1,2,3,4,6,7,8-HPCDF		25.4	0.0524	0.97	1.000
1,2,3,4,7,8,9-HPCDF	J	2.10	0.0524	0.88	1.000
OCDF		87.6	0.0524	0.86	1.002
TOTAL TETRA-DIOXINS		3.55	0.0524		
TOTAL PENTA-DIOXINS		7.85	0.0524		
TOTAL HEXA-DIOXINS		58.0	0.0524		
TOTAL HEPTA-DIOXINS		515	0.0702		
TOTAL TETRA-FURANS		18.3	0.0524		
TOTAL PENTA-FURANS		32.5	0.0524		
TOTAL HEXA-FURANS		49.4	0.0524		
TOTAL HEPTA-FURANS		81.0	0.0524		

(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; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-29_Form1A_DX0M_009S12_SJ1102699.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS535-010
Sample Collection:
17-Dec-2009 09:29

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-29
Matrix:	SOLID	**Sample Size:**	9.55 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	15-Jan-2010 **Time:** 03:42:49	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_015 S: 14**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_015 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	67.0

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.23	0.122	0.69	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-29_Form1A_DB0B_015S14_SJ1099716.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS536-010
Sample Collection:
17-Dec-2009 09:44

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-30 Li (A)
Matrix:	SOLID	**Sample Size:**	10.0 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	21-Jan-2010 **Time:** 13:18:37	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_009 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_009 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	68.2

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.138	0.0500	0.68	1.001
1,2,3,7,8-PECDD [3]	K J	0.205	0.0500	0.41	1.001
1,2,3,4,7,8-HXCDD	J	0.368	0.0500	1.38	1.000
1,2,3,6,7,8-HXCDD	J	1.14	0.0500	1.24	1.001
1,2,3,7,8,9-HXCDD	J	1.03	0.0500	1.08	1.000
1,2,3,4,6,7,8-HPCDD		26.9	0.0500	1.04	1.000
OCDD	B	291	0.0500	0.87	1.000
2,3,7,8-TCDF	J	0.535	0.0500	0.77	1.001
1,2,3,7,8-PECDF	J	0.107	0.0500	1.76	1.001
2,3,4,7,8-PECDF	J	0.215	0.0500	1.52	1.001
1,2,3,4,7,8-HXCDF	J	0.662	0.0500	1.42	1.000
1,2,3,6,7,8-HXCDF	J	0.249	0.0500	1.24	1.000
1,2,3,7,8,9-HXCDF	U		0.0500		
2,3,4,6,7,8-HXCDF	J	0.211	0.0500	1.40	1.001
1,2,3,4,6,7,8-HPCDF		5.15	0.118	1.15	1.000
1,2,3,4,7,8,9-HPCDF	J	0.401	0.118	1.02	1.000
OCDF		18.2	0.0500	0.87	1.002
TOTAL TETRA-DIOXINS	J	0.912	0.0500		
TOTAL PENTA-DIOXINS	J	1.51	0.0500		
TOTAL HEXA-DIOXINS		9.74	0.0500		
TOTAL HEPTA-DIOXINS		64.2	0.0500		
TOTAL TETRA-FURANS		4.05	0.0500		
TOTAL PENTA-FURANS	J	3.52	0.0500		
TOTAL HEXA-FURANS		7.84	0.0500		
TOTAL HEPTA-FURANS		15.5	0.118		

(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; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-30_Form1A_DX0M_009S5_SJ1102809.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS536-010
Sample Collection:
17-Dec-2009 09:44

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-30 L (A)
Matrix:	SOLID	**Sample Size:**	9.55 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	20-Jan-2010 **Time:** 23:41:53	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_021 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_021 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	68.2

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.271	0.0524	0.80	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-30_Form1A_DB0B_021S6_SJ1102745.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS536-010 (Duplicate)
Sample Collection:
17-Dec-2009 09:44

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	WG31355-103 (DUP L14065-30)
Matrix:	SOLID	**Sample Size:**	9.71 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	15-Jan-2010 **Time:** 20:21:39	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_007 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_007 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	67.5

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.171	0.0688	0.68	1.002
1,2,3,7,8-PECDD [3]	J	0.260	0.0515	0.68	1.001
1,2,3,4,7,8-HXCDD	J	0.383	0.0515	1.24	1.000
1,2,3,6,7,8-HXCDD	J	1.21	0.0515	1.14	1.000
1,2,3,7,8,9-HXCDD	J	1.16	0.0515	1.28	1.000
1,2,3,4,6,7,8-HPCDD		23.9	0.0515	1.04	1.000
OCDD	B	233	0.0515	0.87	1.000
2,3,7,8-TCDF	J	0.449	0.0515	0.79	1.001
1,2,3,7,8-PECDF	K J	0.102	0.0515	1.25	1.001
2,3,4,7,8-PECDF	J	0.215	0.0515	1.48	1.001
1,2,3,4,7,8-HXCDF	J	0.637	0.0515	1.27	1.001
1,2,3,6,7,8-HXCDF	J	0.239	0.0515	1.21	1.000
1,2,3,7,8,9-HXCDF	U		0.0515		
2,3,4,6,7,8-HXCDF	J	0.184	0.0515	1.24	1.000
1,2,3,4,6,7,8-HPCDF	J	4.66	0.0515	0.97	1.000
1,2,3,4,7,8,9-HPCDF	J	0.335	0.0515	0.96	1.000
OCDF		16.0	0.0515	0.88	1.002
TOTAL TETRA-DIOXINS		1.40	0.0688		
TOTAL PENTA-DIOXINS	J	1.56	0.0515		
TOTAL HEXA-DIOXINS		10.7	0.0515		
TOTAL HEPTA-DIOXINS		58.6	0.0515		
TOTAL TETRA-FURANS		3.24	0.0515		
TOTAL PENTA-FURANS	J	3.35	0.0515		
TOTAL HEXA-FURANS		7.15	0.0515		
TOTAL HEPTA-FURANS		13.8	0.0515		

(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; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_WG31355-103_Form1A_DX0M_007S8_SJ1100156.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS536-010 (Duplicate)
Sample Collection:
17-Dec-2009 09:44

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	WG31355-103 i2 (DUP L14065-30)
Matrix:	SOLID	**Sample Size:**	9.71 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	20-Jan-2010 **Time:** 11:47:29	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_020 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_020 S: 3
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	67.5

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.167	0.0515	0.77	1.002

(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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_WG31355-103_Form1A_DB0B_020S6_SJ1102730.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

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. LDW DIOXIN AND FURAN SAMPLING

Contract No.: 4033

Client ID: LDW-SS536-010

Concentration Units: ng/kg (dry weight basis)

COMPOUND	L14065-30 (A)		WG31355-103		MEAN	RELATIVE PERCENT DIFFERENCE
	LAB FLAG [1]	CONC. FOUND	LAB FLAG [1]	CONC. FOUND		
2,3,7,8-TCDD	J	0.138	J	0.171	0.154	21.2
1,2,3,7,8-PECDD	K J	0.205	J	0.260		
1,2,3,4,7,8-HXCDD	J	0.368	J	0.383	0.375	4.17
1,2,3,6,7,8-HXCDD	J	1.14	J	1.21	1.17	5.99
1,2,3,7,8,9-HXCDD	J	1.03	J	1.16	1.09	11.9
1,2,3,4,6,7,8-HPCDD		26.9		23.9	25.4	11.6
OCDD		291		233	262	22.4
2,3,7,8-TCDF	J	0.271	J	0.167	0.219	47.5
1,2,3,7,8-PECDF	J	0.107	K J	0.102		
2,3,4,7,8-PECDF	J	0.215	J	0.215	0.215	0.311
1,2,3,4,7,8-HXCDF	J	0.662	J	0.637	0.650	3.87
1,2,3,6,7,8-HXCDF	J	0.249	J	0.239	0.244	4.01
1,2,3,7,8,9-HXCDF	U		U			
2,3,4,6,7,8-HXCDF	J	0.211	J	0.184	0.197	13.5
1,2,3,4,6,7,8-HPCDF		5.15	J	4.66	4.91	10.1
1,2,3,4,7,8,9-HPCDF	J	0.401	J	0.335	0.368	17.9
OCDF		18.2		16.0	17.1	12.6

(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: 29-Jan-2010 09:23:13; Application: XMLTransformer-1.10.15;
Report Filename: RPD_DIOXINS_1613-RPD_WG31355-103_L14065-30_.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS537-010
Sample Collection:
17-Dec-2009 10:07

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-31 i3
Matrix:	SOLID	**Sample Size:**	10.8 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	21-Jan-2010 **Time:** 19:11:48	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_009 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_009 S: 8
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	57.6

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.250	0.0465	0.68	1.001
1,2,3,7,8-PECDD [3]	J	0.790	0.0465	0.55	1.001
1,2,3,4,7,8-HXCDD	J	1.27	0.0465	1.17	1.000
1,2,3,6,7,8-HXCDD	J	4.93	0.0465	1.20	1.000
1,2,3,7,8,9-HXCDD	J	3.52	0.0465	1.22	1.000
1,2,3,4,6,7,8-HPCDD		111	0.0854	1.02	1.000
OCDD	B	1020	0.0465	0.88	1.000
2,3,7,8-TCDF		1.34	0.0465	0.70	1.002
1,2,3,7,8-PECDF	J	0.339	0.0465	1.69	1.001
2,3,4,7,8-PECDF	J	0.726	0.0465	1.33	1.001
1,2,3,4,7,8-HXCDF	J	2.16	0.0465	1.21	1.001
1,2,3,6,7,8-HXCDF	J	0.849	0.0465	1.21	1.000
1,2,3,7,8,9-HXCDF	J	0.090	0.0465	1.25	1.000
2,3,4,6,7,8-HXCDF	J	0.771	0.0465	1.22	1.000
1,2,3,4,6,7,8-HPCDF		22.2	0.0645	1.02	1.001
1,2,3,4,7,8,9-HPCDF	J	1.41	0.0645	1.06	1.000
OCDF		73.2	0.0465	0.89	1.002
TOTAL TETRA-DIOXINS		2.59	0.0465		
TOTAL PENTA-DIOXINS	J	4.40	0.0465		
TOTAL HEXA-DIOXINS		39.7	0.0465		
TOTAL HEPTA-DIOXINS		293	0.0854		
TOTAL TETRA-FURANS		10.1	0.0465		
TOTAL PENTA-FURANS		12.7	0.0465		
TOTAL HEXA-FURANS		30.9	0.0465		
TOTAL HEPTA-FURANS		65.6	0.0645		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-31_Form1A_DX0M_009S11_SJ1102698.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS537-010
Sample Collection:
17-Dec-2009 10:07

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-31 i2
Matrix:	SOLID	**Sample Size:**	10.8 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	20-Jan-2010 **Time:** 14:11:01	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_020 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_020 S: 3
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	57.6

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.605	0.0559	0.85	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-31_Form1A_DB0B_020S10_SJ1102734.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS538-010
Sample Collection:
17-Dec-2009 10:20

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-32 i2
Matrix:	SOLID	**Sample Size:**	9.56 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	21-Jan-2010 **Time:** 20:59:08	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_009 S: 13**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_009 S: 8
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	59.5

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.689	0.0523	0.66	1.002
1,2,3,7,8-PECDD [3]	J	1.91	0.0523	0.59	1.001
1,2,3,4,7,8-HXCDD	J	2.39	0.0534	1.27	1.000
1,2,3,6,7,8-HXCDD		12.1	0.0534	1.24	1.000
1,2,3,7,8,9-HXCDD		9.28	0.0534	1.21	1.000
1,2,3,4,6,7,8-HPCDD		361	0.163	1.04	1.000
OCDD	B	4440	0.0523	0.87	1.000
2,3,7,8-TCDF		6.69	0.0523	0.75	1.002
1,2,3,7,8-PECDF	J	1.56	0.0523	1.60	1.001
2,3,4,7,8-PECDF	J	4.38	0.0523	1.54	1.001
1,2,3,4,7,8-HXCDF		16.6	0.0523	1.25	1.000
1,2,3,6,7,8-HXCDF		5.40	0.0523	1.17	1.000
1,2,3,7,8,9-HXCDF	J	0.301	0.0523	1.33	1.000
2,3,4,6,7,8-HXCDF	J	3.26	0.0523	1.14	1.001
1,2,3,4,6,7,8-HPCDF		67.6	0.0915	0.99	1.000
1,2,3,4,7,8,9-HPCDF		7.87	0.0915	1.01	1.000
OCDF		234	0.0523	0.86	1.002
TOTAL TETRA-DIOXINS		8.31	0.0523		
TOTAL PENTA-DIOXINS		13.4	0.0523		
TOTAL HEXA-DIOXINS		115	0.0534		
TOTAL HEPTA-DIOXINS		976	0.163		
TOTAL TETRA-FURANS		43.2	0.0523		
TOTAL PENTA-FURANS		57.6	0.0523		
TOTAL HEXA-FURANS		113	0.0523		
TOTAL HEPTA-FURANS		219	0.0915		

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-32_Form1A_DX0M_009S13_SJ1102700.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS538-010
Sample Collection:
17-Dec-2009 10:20

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-32 i2
Matrix:	SOLID	**Sample Size:**	9.56 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	20-Jan-2010 **Time:** 15:58:33	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_020 S: 13**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_020 S: 3
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	59.5

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		3.39	0.190	0.83	1.000

(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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-32_Form1A_DB0B_020S13_SJ1102737.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS539-010
Sample Collection:
17-Dec-2009 10:37

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-33
Matrix:	SOLID	**Sample Size:**	10.2 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	15-Jan-2010 **Time:** 21:16:42	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_007 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_007 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	68.5

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.152	0.0490	0.53	1.001
1,2,3,7,8-PECDD [3]	J	0.270	0.0490	0.57	1.002
1,2,3,4,7,8-HXCDD	J	0.389	0.0490	1.21	1.000
1,2,3,6,7,8-HXCDD	J	1.29	0.0490	1.16	1.000
1,2,3,7,8,9-HXCDD	J	1.12	0.0490	1.17	1.000
1,2,3,4,6,7,8-HPCDD		26.1	0.0490	1.03	1.000
OCDD	B	258	0.0490	0.88	1.000
2,3,7,8-TCDF	J	0.534	0.0490	0.76	1.001
1,2,3,7,8-PECDF	J	0.135	0.0490	1.42	1.001
2,3,4,7,8-PECDF	J	0.246	0.0490	1.64	1.001
1,2,3,4,7,8-HXCDF	J	0.834	0.0490	1.17	1.001
1,2,3,6,7,8-HXCDF	J	0.300	0.0490	1.10	1.000
1,2,3,7,8,9-HXCDF	U		0.0490		
2,3,4,6,7,8-HXCDF	J	0.258	0.0490	1.21	1.001
1,2,3,4,6,7,8-HPCDF		5.44	0.0490	1.01	1.000
1,2,3,4,7,8,9-HPCDF	J	0.393	0.0490	1.08	1.000
OCDF		22.1	0.0490	0.86	1.002
TOTAL TETRA-DIOXINS	J	0.959	0.0490		
TOTAL PENTA-DIOXINS	J	2.02	0.0490		
TOTAL HEXA-DIOXINS		11.2	0.0490		
TOTAL HEPTA-DIOXINS		63.7	0.0490		
TOTAL TETRA-FURANS		3.87	0.0490		
TOTAL PENTA-FURANS	J	3.65	0.0490		
TOTAL HEXA-FURANS		9.27	0.0490		
TOTAL HEPTA-FURANS		18.4	0.0490		

(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; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-33_Form1A_DX0M_007S9_SJ1100157.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS539-010
Sample Collection:
17-Dec-2009 10:37

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-33 i2
Matrix:	SOLID	**Sample Size:**	10.2 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	20-Jan-2010 **Time:** 12:23:18	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_020 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_020 S: 3
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	68.5

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K J	0.236	0.0490	0.52	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_L14065-33_Form1A_DB0B_020S7_SJ1102731.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS540-010
Sample Collection:
17-Dec-2009 11:05

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

Project No.	LDW DIOXIN AND FURAN SAMPLING	**Contract No.:**	4033
Lab Sample I.D.:	L14065-34 i	**Matrix:**	SOLID
Sample Size:	9.73 g (dry)	**Sample Receipt Date:**	22-Dec-2009
Initial Calibration Date:	19-Nov-2009	**Extraction Date:**	04-Jan-2010
Instrument ID:	HR GC/MS	**Analysis Date:**	20-Jan-2010 **Time:** 17:27:44
GC Column ID:	DB5	**Extract Volume (uL):**	20
Sample Data Filename:	**DX0M_008 S: 8**	**Injection Volume (uL):**	1.0
Blank Data Filename:	DX0M_007 S: 5	**Dilution Factor:**	N/A
Cal. Ver. Data Filename:	DX0M_008 S: 1	**Concentration Units:**	ng/kg (dry weight basis)
% Solids:	61.2		

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.605	0.0514	0.66	1.002
1,2,3,7,8-PECDD [3]	J	1.56	0.0514	0.59	1.000
1,2,3,4,7,8-HXCDD	J	1.92	0.0514	1.22	1.000
1,2,3,6,7,8-HXCDD		5.82	0.0514	1.22	1.000
1,2,3,7,8,9-HXCDD		6.91	0.0514	1.23	1.000
1,2,3,4,6,7,8-HPCDD		96.8	0.0606	0.91	1.000
OCDD	B	769	0.0514	0.87	1.000
2,3,7,8-TCDF		3.74	0.0514	0.75	1.001
1,2,3,7,8-PECDF	J	0.712	0.0514	1.59	1.001
2,3,4,7,8-PECDF	J	2.15	0.0514	1.53	1.000
1,2,3,4,7,8-HXCDF	J	4.19	0.0514	1.16	1.000
1,2,3,6,7,8-HXCDF	J	1.55	0.0514	1.17	1.001
1,2,3,7,8,9-HXCDF	K J	0.093	0.0514	0.90	1.000
2,3,4,6,7,8-HXCDF	J	1.35	0.0514	1.13	1.000
1,2,3,4,6,7,8-HPCDF		17.9	0.0514	0.99	1.001
1,2,3,4,7,8,9-HPCDF	J	2.18	0.0514	1.04	1.000
OCDF		56.4	0.0514	0.87	1.002
TOTAL TETRA-DIOXINS		9.34	0.0514		
TOTAL PENTA-DIOXINS		13.4	0.0514		
TOTAL HEXA-DIOXINS		58.9	0.0514		
TOTAL HEPTA-DIOXINS		235	0.0606		
TOTAL TETRA-FURANS		36.0	0.0514		
TOTAL PENTA-FURANS		45.5	0.0514		
TOTAL HEXA-FURANS		41.9	0.0514		
TOTAL HEPTA-FURANS		52.1	0.0514		

(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; B = analyte found in sample and the associated blank; 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_L14065-34_Form1A_DX0M_008S8_SJ1102445.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS540-010
Sample Collection:
17-Dec-2009 11:05

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-34 i2
Matrix:	SOLID	**Sample Size:**	9.73 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	20-Jan-2010 **Time:** 15:22:44	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_020 S: 12**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_020 S: 3
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	61.2

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF		1.87	0.103	0.82	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_L14065-34_Form1A_DB0B_020S12_SJ1102736.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS541-010
Sample Collection:
17-Dec-2009 13:39

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-35 R
Matrix:	SOLID	**Sample Size:**	11.3 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	29-Jan-2010 **Time:** 14:59:35	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_012 S: 21**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_012 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_012 S: 12
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	72.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.126	0.0443	0.66	1.001
1,2,3,7,8-PECDD [3]	J	0.220	0.0443	0.54	1.001
1,2,3,4,7,8-HXCDD	K J	0.354	0.0443	1.62	1.001
1,2,3,6,7,8-HXCDD	J	1.92	0.0443	1.33	1.000
1,2,3,7,8,9-HXCDD	J	1.06	0.0443	1.26	1.000
1,2,3,4,6,7,8-HPCDD	B	50.7	0.0555	1.01	1.000
OCDD	B	496	0.0443	0.87	1.000
2,3,7,8-TCDF	J	0.457	0.0443	0.71	1.002
1,2,3,7,8-PECDF	J	0.119	0.0443	1.43	1.001
2,3,4,7,8-PECDF	J	0.287	0.0443	1.66	1.001
1,2,3,4,7,8-HXCDF		5.57	0.0443	1.21	1.001
1,2,3,6,7,8-HXCDF	J	0.906	0.0443	1.28	1.000
1,2,3,7,8,9-HXCDF	J	0.063	0.0443	1.39	1.001
2,3,4,6,7,8-HXCDF	J	0.391	0.0443	1.33	1.000
1,2,3,4,6,7,8-HPCDF		35.1	0.0610	1.02	1.000
1,2,3,4,7,8,9-HPCDF	J	3.06	0.0610	0.95	1.000
OCDF		70.3	0.0443	0.85	1.002
TOTAL TETRA-DIOXINS		1.04	0.0443		
TOTAL PENTA-DIOXINS		1.21	0.0443		
TOTAL HEXA-DIOXINS		10.9	0.0443		
TOTAL HEPTA-DIOXINS	B	105	0.0555		
TOTAL TETRA-FURANS		2.83	0.0443		
TOTAL PENTA-FURANS		4.30	0.0443		
TOTAL HEXA-FURANS		34.5	0.0443		
TOTAL HEPTA-FURANS		112	0.0610		

(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; B = analyte found in sample and the associated blank; 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_L14065-35_Form1A_DX0M_012S21_SJ1106148.html; Workgroup: WG31593; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS542-010
Sample Collection:
17-Dec-2009 13:26

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-36 i
Matrix:	SOLID	**Sample Size:**	9.89 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	20-Jan-2010 **Time:** 15:37:56	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_008 S: 6**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_008 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	64.1

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.351	0.0506	0.74	1.001
1,2,3,7,8-PECDD [3]	J	0.568	0.0506	0.54	1.001
1,2,3,4,7,8-HXCDD	J	0.641	0.0506	1.35	1.000
1,2,3,6,7,8-HXCDD	J	2.11	0.0506	1.27	1.000
1,2,3,7,8,9-HXCDD	J	1.96	0.0506	1.26	1.000
1,2,3,4,6,7,8-HPCDD		39.5	0.0517	1.00	1.000
OCDD	B	367	0.0506	0.88	1.000
2,3,7,8-TCDF	J	0.863	0.0506	0.76	1.002
1,2,3,7,8-PECDF	J	0.238	0.0506	1.68	1.001
2,3,4,7,8-PECDF	J	0.424	0.0506	1.49	1.000
1,2,3,4,7,8-HXCDF	J	1.13	0.0506	1.10	1.000
1,2,3,6,7,8-HXCDF	J	0.500	0.0506	1.06	1.000
1,2,3,7,8,9-HXCDF	K J	0.063	0.0506	1.03	1.000
2,3,4,6,7,8-HXCDF	J	0.387	0.0506	1.17	1.000
1,2,3,4,6,7,8-HPCDF		8.27	0.0506	1.02	1.000
1,2,3,4,7,8,9-HPCDF	J	0.577	0.0506	0.90	1.000
OCDF		27.3	0.0506	0.87	1.002
TOTAL TETRA-DIOXINS		2.14	0.0506		
TOTAL PENTA-DIOXINS	J	3.79	0.0506		
TOTAL HEXA-DIOXINS		18.3	0.0506		
TOTAL HEPTA-DIOXINS		93.6	0.0517		
TOTAL TETRA-FURANS		6.85	0.0506		
TOTAL PENTA-FURANS		8.26	0.0506		
TOTAL HEXA-FURANS		13.8	0.0506		
TOTAL HEPTA-FURANS		25.3	0.0506		

(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; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-36_Form1A_DX0M_008S6_SJ1102443.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS542-010
Sample Collection:
17-Dec-2009 13:26

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-36 i2
Matrix:	SOLID	**Sample Size:**	9.89 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	20-Jan-2010 **Time:** 12:59:11	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_020 S: 8**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_020 S: 3
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	64.1

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K J	0.423	0.0673	0.99	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: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-36_Form1A_DB0B_020S8_SJ1102732.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS543-010
Sample Collection:
17-Dec-2009 13:07

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-37
Matrix:	SOLID	**Sample Size:**	12.8 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	15-Jan-2010 **Time:** 22:11:39	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_007 S: 10**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_007 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	57.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.205	0.0391	0.64	1.001
1,2,3,7,8-PECDD [3]	J	0.479	0.0391	0.53	1.001
1,2,3,4,7,8-HXCDD	J	0.738	0.0391	1.36	1.000
1,2,3,6,7,8-HXCDD	J	2.20	0.0391	1.23	1.000
1,2,3,7,8,9-HXCDD	J	2.20	0.0391	1.19	1.000
1,2,3,4,6,7,8-HPCDD		42.8	0.0438	1.02	1.000
OCDD	B	373	0.0391	0.87	1.000
2,3,7,8-TCDF	J	0.680	0.0391	0.78	1.001
1,2,3,7,8-PECDF	J	0.181	0.0391	1.35	1.001
2,3,4,7,8-PECDF	J	0.328	0.0391	1.49	1.001
1,2,3,4,7,8-HXCDF	J	1.01	0.0391	1.16	1.000
1,2,3,6,7,8-HXCDF	J	0.424	0.0391	1.05	1.001
1,2,3,7,8,9-HXCDF	J	0.044	0.0391	1.38	1.001
2,3,4,6,7,8-HXCDF	J	0.358	0.0391	1.23	1.001
1,2,3,4,6,7,8-HPCDF		8.78	0.0391	1.00	1.000
1,2,3,4,7,8,9-HPCDF	J	0.609	0.0391	1.03	1.000
OCDF		32.5	0.0391	0.85	1.002
TOTAL TETRA-DIOXINS		1.76	0.0391		
TOTAL PENTA-DIOXINS	J	3.35	0.0391		
TOTAL HEXA-DIOXINS		19.0	0.0391		
TOTAL HEPTA-DIOXINS		105	0.0438		
TOTAL TETRA-FURANS		5.70	0.0391		
TOTAL PENTA-FURANS		6.18	0.0391		
TOTAL HEXA-FURANS		15.1	0.0391		
TOTAL HEPTA-FURANS		28.7	0.0391		

(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; B = analyte found in sample and the associated blank; 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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:13:47; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB5_L14065-37_Form1A_DX0M_007S10_SJ1100141.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS543-010
Sample Collection:
17-Dec-2009 13:07

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-37 i2
Matrix:	SOLID	**Sample Size:**	12.8 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	20-Jan-2010 **Time:** 13:35:03	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_020 S: 9**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_020 S: 3
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	57.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.370	0.0391	0.87	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

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-37_Form1A_DB0B_020S9_SJ1102733.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS544-010-COMP
Sample Collection:
12-Jan-2010 18:29

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-6
Matrix:	SOLID	**Sample Size:**	10.5 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Feb-2010 **Time:** 00:50:36	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_019 S: 15**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_019 S: 6
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_019 S: 12
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	62.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD		0.606	0.0478	0.66	1.001
1,2,3,7,8-PECDD [3]	J	0.690	0.0478	0.52	1.001
1,2,3,4,7,8-HXCDD	J	0.911	0.0478	1.16	1.000
1,2,3,6,7,8-HXCDD		2.87	0.0478	1.21	1.000
1,2,3,7,8,9-HXCDD		2.73	0.0478	1.27	1.000
1,2,3,4,6,7,8-HPCDD		60.1	0.0859	1.01	1.000
OCDD	B	548	0.0478	0.87	1.000
2,3,7,8-TCDF		2.49	0.0478	0.80	1.001
1,2,3,7,8-PECDF	K J	0.414	0.0478	1.18	1.001
2,3,4,7,8-PECDF		0.948	0.0478	1.51	1.001
1,2,3,4,7,8-HXCDF		2.60	0.0478	1.19	1.000
1,2,3,6,7,8-HXCDF		1.16	0.0478	1.21	1.001
1,2,3,7,8,9-HXCDF	K J	0.102	0.0478	1.94	1.000
2,3,4,6,7,8-HXCDF	J	0.843	0.0478	1.13	1.001
1,2,3,4,6,7,8-HPCDF		14.0	0.0478	0.98	1.000
1,2,3,4,7,8,9-HPCDF		1.15	0.0478	0.97	1.000
OCDF	B	46.0	0.0478	0.86	1.002
TOTAL TETRA-DIOXINS		4.78	0.0478		
TOTAL PENTA-DIOXINS		5.70	0.0478		
TOTAL HEXA-DIOXINS		26.7	0.0478		
TOTAL HEPTA-DIOXINS		134	0.0859		
TOTAL TETRA-FURANS		19.4	0.0478		
TOTAL PENTA-FURANS		18.1	0.0478		
TOTAL HEXA-FURANS		27.1	0.0478		
TOTAL HEPTA-FURANS		46.0	0.0478		

(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; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:52:27; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB5_L14159-6_Form1A_DX0M_019S15_SJ1112917.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS544-010-COMP
Sample Collection:
12-Jan-2010 18:29

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-6
Matrix:	SOLID	**Sample Size:**	10.5 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 15:49:07	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_039 S: 11**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_039 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_039 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	62.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.927	0.154	0.86	1.002

(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: _____Shelley Facchin_____ QA/QC Chemist

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Report Filename: 1613_DIOXINS_1613DB225_L14159-6_Form1A_DB0B_039S11_SJ1111279.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS545-010
Sample Collection:
17-Dec-2009 12:52

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-38 Li
Matrix:	SOLID	**Sample Size:**	10.2 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	21-Jan-2010 **Time:** 12:26:20	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_009 S: 4**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_009 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	79.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	J	0.061	0.0490	0.66	1.001
1,2,3,7,8-PECDD [3]	J	0.070	0.0490	0.59	1.001
1,2,3,4,7,8-HXCDD	J	0.123	0.0490	1.36	1.000
1,2,3,6,7,8-HXCDD	J	0.197	0.0490	1.07	1.000
1,2,3,7,8,9-HXCDD	J	0.198	0.0490	1.40	1.000
1,2,3,4,6,7,8-HPCDD	J	2.77	0.0490	1.00	1.000
OCDD	B	21.5	0.0684	0.88	1.000
2,3,7,8-TCDF	K J	0.087	0.0490	0.60	1.002
1,2,3,7,8-PECDF	U		0.0490		
2,3,4,7,8-PECDF	K J	0.059	0.0490	2.45	1.001
1,2,3,4,7,8-HXCDF	J	0.129	0.0490	1.18	1.000
1,2,3,6,7,8-HXCDF	J	0.061	0.0490	1.15	1.001
1,2,3,7,8,9-HXCDF	J	0.076	0.0490	1.26	1.000
2,3,4,6,7,8-HXCDF	J	0.074	0.0490	1.07	1.001
1,2,3,4,6,7,8-HPCDF	J	0.750	0.0490	0.94	1.000
1,2,3,4,7,8,9-HPCDF	J	0.120	0.0490	1.17	1.001
OCDF	J	2.04	0.0490	0.84	1.002
TOTAL TETRA-DIOXINS	J	0.122	0.0490		
TOTAL PENTA-DIOXINS	J	0.070	0.0490		
TOTAL HEXA-DIOXINS	J	1.55	0.0490		
TOTAL HEPTA-DIOXINS		6.44	0.0490		
TOTAL TETRA-FURANS	J	0.337	0.0490		
TOTAL PENTA-FURANS	J	0.064	0.0490		
TOTAL HEXA-FURANS	J	1.35	0.0490		
TOTAL HEPTA-FURANS	J	2.08	0.0490		

(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; B = analyte found in sample and the associated blank; 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_L14065-38_Form1A_DX0M_009S4_SJ1102808.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS545-010
Sample Collection:
17-Dec-2009 12:52

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-38 L
Matrix:	SOLID	**Sample Size:**	10.2 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	20-Jan-2010 **Time:** 23:05:49	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_021 S: 5**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_015 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_021 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	79.9

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	K J	0.074	0.0490	0.29	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: 29-Jan-2010 09:16:21; Application: XMLTransformer-1.10.15;
Report Filename: 1613_DIOXINS_1613DB225_L14065-38_Form1A_DB0B_021S5_SJ1102744.html; Workgroup: WG31355; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS546-010
Sample Collection:
17-Dec-2009 12:10

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14065-39 i
Matrix:	SOLID	**Sample Size:**	9.68 g (dry)
Sample Receipt Date:	22-Dec-2009	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	04-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	20-Jan-2010 **Time:** 16:32:34	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_008 S: 7**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_007 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_008 S: 1
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	61.2

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K J	0.276	0.0517	0.63	1.001
1,2,3,7,8-PECDD [3]	J	0.546	0.0517	0.62	1.001
1,2,3,4,7,8-HXCDD	J	0.948	0.0517	1.19	1.000
1,2,3,6,7,8-HXCDD	J	2.77	0.0517	1.22	1.000
1,2,3,7,8,9-HXCDD	J	2.55	0.0517	1.20	1.000
1,2,3,4,6,7,8-HPCDD		52.3	0.0566	1.01	1.000
OCDD	B	469	0.0517	0.87	1.000
2,3,7,8-TCDF	J	1.09	0.0517	0.76	1.002
1,2,3,7,8-PECDF	J	0.238	0.0517	1.34	1.000
2,3,4,7,8-PECDF	J	0.461	0.0517	1.51	1.000
1,2,3,4,7,8-HXCDF	J	0.963	0.0517	1.23	1.001
1,2,3,6,7,8-HXCDF	J	0.532	0.0517	1.06	1.000
1,2,3,7,8,9-HXCDF	J	0.058	0.0517	1.15	1.001
2,3,4,6,7,8-HXCDF	J	0.463	0.0517	1.15	1.000
1,2,3,4,6,7,8-HPCDF		10.2	0.0517	1.02	1.000
1,2,3,4,7,8,9-HPCDF	J	0.650	0.0517	1.09	1.000
OCDF		34.2	0.0517	0.85	1.002
TOTAL TETRA-DIOXINS		2.37	0.0517		
TOTAL PENTA-DIOXINS	J	3.95	0.0517		
TOTAL HEXA-DIOXINS		22.5	0.0517		
TOTAL HEPTA-DIOXINS		122	0.0566		
TOTAL TETRA-FURANS		7.37	0.0517		
TOTAL PENTA-FURANS		7.20	0.0517		
TOTAL HEXA-FURANS		16.2	0.0517		
TOTAL HEPTA-FURANS		30.2	0.0517		

(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; B = analyte found in sample and the associated blank; 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

AXYS METHOD MLA-017 Rev 17

Form 1A

PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
LDW-SS547-010
Sample Collection:
11-Jan-2010 09:20

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

Project No.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-7
Matrix:	SOLID	**Sample Size:**	10.8 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	19-Nov-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	12-Feb-2010 **Time:** 01:44:29	**GC Column ID:**	DB5
Extract Volume (uL):	20	**Sample Data Filename:**	**DX0M_019 S: 16**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DX0M_019 S: 6
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DX0M_019 S: 12
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	55.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDD	K	0.299	0.0463	0.57	1.001
1,2,3,7,8-PECDD [3]	J	0.942	0.0463	0.62	1.001
1,2,3,4,7,8-HXCDD		1.21	0.0463	1.11	1.000
1,2,3,6,7,8-HXCDD		3.61	0.0463	1.21	1.000
1,2,3,7,8,9-HXCDD		3.81	0.0463	1.20	1.000
1,2,3,4,6,7,8-HPCDD		76.5	0.0822	1.02	1.000
OCDD	B	754	0.0463	0.88	1.000
2,3,7,8-TCDF		1.64	0.0463	0.74	1.002
1,2,3,7,8-PECDF	J	0.350	0.0463	1.43	1.001
2,3,4,7,8-PECDF	J	0.795	0.0463	1.43	1.001
1,2,3,4,7,8-HXCDF		1.64	0.0463	1.11	1.000
1,2,3,6,7,8-HXCDF		0.897	0.0463	1.14	1.000
1,2,3,7,8,9-HXCDF	J	0.071	0.0463	1.11	1.000
2,3,4,6,7,8-HXCDF	J	0.843	0.0463	1.15	1.000
1,2,3,4,6,7,8-HPCDF		14.0	0.0463	1.01	1.000
1,2,3,4,7,8,9-HPCDF		0.931	0.0463	0.94	1.000
OCDF	B	53.7	0.0584	0.85	1.002
TOTAL TETRA-DIOXINS		5.48	0.0463		
TOTAL PENTA-DIOXINS		7.69	0.0463		
TOTAL HEXA-DIOXINS		34.2	0.0463		
TOTAL HEPTA-DIOXINS		175	0.0822		
TOTAL TETRA-FURANS		16.1	0.0463		
TOTAL PENTA-FURANS		24.5	0.0463		
TOTAL HEXA-FURANS		28.2	0.0463		
TOTAL HEPTA-FURANS		50.1	0.0463		

(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; B = analyte found in sample and the associated blank; 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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:52:27; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB5_L14159-7_Form1A_DX0M_019S16_SJ1112918.html; Workgroup: WG31619; Design ID: 491]

AXYS METHOD MLA-017 Rev 17

CLIENT SAMPLE NO.
LDW-SS547-010
Sample Collection:
11-Jan-2010 09:20

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.	LDW DIOXIN AND FURAN SAMPLING		
Contract No.:	4033	**Lab Sample I.D.:**	L14159-7
Matrix:	SOLID	**Sample Size:**	10.8 g (dry)
Sample Receipt Date:	20-Jan-2010	**Initial Calibration Date:**	23-Dec-2009
Extraction Date:	25-Jan-2010	**Instrument ID:**	HR GC/MS
Analysis Date:	11-Feb-2010 **Time:** 16:24:56	**GC Column ID:**	DB225
Extract Volume (uL):	20	**Sample Data Filename:**	**DB0B_039 S: 12**
Injection Volume (uL):	1.0	**Blank Data Filename:**	DB0B_039 S: 5
Dilution Factor:	N/A	**Cal. Ver. Data Filename:**	DB0B_039 S: 2
Concentration Units:	ng/kg (dry weight basis)	**% Solids:**	55.4

COMPOUND	LAB FLAG [1]	CONCENTRATION FOUND	DETECTION LIMIT	ION ABUND. RATIO [2]	RRT [2]
2,3,7,8-TCDF	J	0.859	0.0966	0.69	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: _____Shelley Facchin_____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 23-Feb-2010 14:53:00; Application: XMLTransformer-1.10.17;
Report Filename: 1613_DIOXINS_1613DB225_L14159-7_Form1A_DB0B_039S12_SJ1111280.html; Workgroup: WG31619; Design ID: 491]

PCBs

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Sample ID: LDW-SS502-010-comp
SAMPLE

Lab Sample ID: QG62A
LIMS ID: 10-1447
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/11/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 19:13
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 30.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**60**
11096-82-5	**Aroclor 1260**	**20**	**26**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U
37324-23-5	Aroclor 1262	20	< 20 U
11100-14-4	Aroclor 1268	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	74.9%
Tetrachlorometaxylene	72.6%

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Sample ID: LDW-SS503-043-comp
SAMPLE

Lab Sample ID: QG62D
LIMS ID: 10-1450
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/11/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 13:56
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 24.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.8	< 3.8 U
53469-21-9	Aroclor 1242	3.8	< 3.8 U
12672-29-6	Aroclor 1248	3.8	< 3.8 U
11097-69-1	**Aroclor 1254**	**3.8**	**16**
11096-82-5	**Aroclor 1260**	**3.8**	**10**
11104-28-2	Aroclor 1221	3.8	< 3.8 U
11141-16-5	Aroclor 1232	3.8	< 3.8 U
37324-23-5	Aroclor 1262	3.8	< 3.8 U
11100-14-4	Aroclor 1268	3.8	< 3.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.2%
Tetrachlorometaxylene	69.2%

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Sample ID: LDW-SS508-010
SAMPLE

Lab Sample ID: QG62E
LIMS ID: 10-1451
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/15/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 02/01/10 10:28
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: Yes

Percent Moisture: 58.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.8	< 0.8 U
53469-21-9	Aroclor 1242	0.8	< 0.8 U
12672-29-6	Aroclor 1248	0.8	< 0.8 U
11097-69-1	Aroclor 1254	0.8	< 0.8 U
11096-82-5	Aroclor 1260	0.8	< 0.8 U
11104-28-2	Aroclor 1221	0.8	< 0.8 U
11141-16-5	Aroclor 1232	0.8	< 0.8 U
37324-23-5	Aroclor 1262	0.8	< 0.8 U
11100-14-4	Aroclor 1268	0.8	< 0.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	62.0%
Tetrachlorometaxylene	61.5%

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Sample ID: LDW-SS509-010
SAMPLE

Lab Sample ID: QG62F
LIMS ID: 10-1452
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/15/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 19:37
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 10.5 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 58.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	48	< 48 U
53469-21-9	Aroclor 1242	48	< 48 U
12672-29-6	Aroclor 1248	190	< 190 Y
11097-69-1	**Aroclor 1254**	**48**	**410**
11096-82-5	**Aroclor 1260**	**48**	**150**
11104-28-2	Aroclor 1221	48	< 48 U
11141-16-5	Aroclor 1232	48	< 48 U
37324-23-5	Aroclor 1262	48	< 48 U
11100-14-4	Aroclor 1268	48	< 48 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	121%
Tetrachlorometaxylene	74.6%

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Sample ID: LDW-SS523-010
SAMPLE

Lab Sample ID: QG62G
LIMS ID: 10-1453
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/15/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 20:00
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 21.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	20	< 20 U
11097-69-1	**Aroclor 1254**	**20**	**34**
11096-82-5	**Aroclor 1260**	**20**	**32**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U
37324-23-5	Aroclor 1262	20	< 20 U
11100-14-4	Aroclor 1268	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.6%
Tetrachlorometaxylene	74.5%

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Sample ID: LDW-SS525-010
SAMPLE

Lab Sample ID: QG62H
LIMS ID: 10-1454
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/16/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 15:24
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 22.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	**Aroclor 1248**	**3.9**	**4.8**
11097-69-1	**Aroclor 1254**	**3.9**	**8.3**
11096-82-5	**Aroclor 1260**	**3.9**	**6.5**
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	75.1%
Tetrachlorometaxylene	67.8%

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Sample ID: LDW-SS526-010
SAMPLE

Lab Sample ID: QG62I
LIMS ID: 10-1455
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/16/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 21:11
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 32.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	99	< 99 Y
11097-69-1	**Aroclor 1254**	**20**	**260**
11096-82-5	**Aroclor 1260**	**20**	**100**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U
37324-23-5	Aroclor 1262	20	< 20 U
11100-14-4	Aroclor 1268	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	107%
Tetrachlorometaxylene	78.1%

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Sample ID: LDW-SS527-010
SAMPLE

Lab Sample ID: QG62B
LIMS ID: 10-1448
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/17/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 13:13
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 52.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	**Aroclor 1248**	**4.0**	**23**
11097-69-1	**Aroclor 1254**	**4.0**	**37**
11096-82-5	**Aroclor 1260**	**4.0**	**31**
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U
37324-23-5	Aroclor 1262	4.0	< 4.0 U
11100-14-4	Aroclor 1268	4.0	< 4.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	71.4%
Tetrachlorometaxylene	68.0%

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Sample ID: LDW-SS603-010
SAMPLE

Lab Sample ID: QG62C
LIMS ID: 10-1449
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/17/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 13:35
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 54.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	**Aroclor 1248**	**4.0**	**23**
11097-69-1	**Aroclor 1254**	**4.0**	**35**
11096-82-5	**Aroclor 1260**	**4.0**	**20**
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U
37324-23-5	Aroclor 1262	4.0	< 4.0 U
11100-14-4	Aroclor 1268	4.0	< 4.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	66.0%
Tetrachlorometaxylene	73.1%

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Sample ID: LDW-SS529-041-comp
SAMPLE

Lab Sample ID: QG62J
LIMS ID: 10-1456
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/11/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 21:35
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 25.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	19	< 19 U
53469-21-9	Aroclor 1242	19	< 19 U
12672-29-6	Aroclor 1248	290	< 290 Y
11097-69-1	**Aroclor 1254**	**19**	**860**
11096-82-5	Aroclor 1260	150	< 150 Y
11104-28-2	Aroclor 1221	19	< 19 U
11141-16-5	Aroclor 1232	19	< 19 U
37324-23-5	Aroclor 1262	19	< 19 U
11100-14-4	Aroclor 1268	19	< 19 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	75.9%

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Sample ID: LDW-SS530-010
SAMPLE

Lab Sample ID: QG62K
LIMS ID: 10-1457
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 12/15/09
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 21:59
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 16.1 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 36.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	31	< 31 U
53469-21-9	Aroclor 1242	31	< 31 U
12672-29-6	**Aroclor 1248**	**31**	**320**
11097-69-1	**Aroclor 1254**	**31**	**390**
11096-82-5	**Aroclor 1260**	**31**	**150**
11104-28-2	Aroclor 1221	31	< 31 U
11141-16-5	Aroclor 1232	31	< 31 U
37324-23-5	Aroclor 1262	31	< 31 U
11100-14-4	Aroclor 1268	31	< 31 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	91.9%
Tetrachlorometaxylene	74.6%

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Sample ID: LDW-SS531-010-comp
SAMPLE

Lab Sample ID: QG62L
LIMS ID: 10-1469
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/12/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 16:29
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 27.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	4.9	< 4.9 Y
11097-69-1	**Aroclor 1254**	**3.9**	**11**
11096-82-5	**Aroclor 1260**	**3.9**	**10**
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.9%
Tetrachlorometaxylene	69.8%

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Sample ID: LDW-SS533-043-comp
SAMPLE

Lab Sample ID: QG62M
LIMS ID: 10-1470
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/12/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 22:22
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 5.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 28.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	**Aroclor 1248**	**20**	**75**
11097-69-1	**Aroclor 1254**	**20**	**140**
11096-82-5	**Aroclor 1260**	**20**	**64**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U
37324-23-5	Aroclor 1262	20	< 20 U
11100-14-4	Aroclor 1268	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.9%
Tetrachlorometaxylene	74.4%

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Sample ID: LDW-SS544-010-comp
SAMPLE

Lab Sample ID: QG62N
LIMS ID: 10-1471
Matrix: Sediment
Data Release Authorized:
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/12/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 16:51
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 39.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	**Aroclor 1248**	**3.9**	**31**
11097-69-1	**Aroclor 1254**	**3.9**	**55**
11096-82-5	**Aroclor 1260**	**3.9**	**41**
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	81.6%
Tetrachlorometaxylene	69.0%

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Sample ID: LDW-SS547-010
SAMPLE

Lab Sample ID: QG62O
LIMS ID: 10-1472
Matrix: Sediment
Data Release Authorized: B
Reported: 02/01/10

QC Report No: QG62-Windward Environmental, LLC
Project: LDW Dioxin Sampling

Date Sampled: 01/11/10
Date Received: 01/18/10

Date Extracted: 01/26/10
Date Analyzed: 01/29/10 17:13
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 48.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	12	< 12 Y
11097-69-1	**Aroclor 1254**	**3.9**	**18**
11096-82-5	**Aroclor 1260**	**3.9**	**12**
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	91.1%
Tetrachlorometaxylene	76.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LDW-SS527-RB
SAMPLE

Lab Sample ID: QC19H
LIMS ID: 09-31229
Matrix: Water
Data Release Authorized:
Reported: 12/29/09

QC Report No: QC19-Windward Environmental, LLC
Project: LDW Dioxin Sampling
04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Date Extracted: 12/22/09
Date Analyzed: 12/24/09 00:47
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: No

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U
37324-23-5	Aroclor 1262	1.0	< 1.0 U
11100-14-4	Aroclor 1268	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	48.2%
Tetrachlorometaxylene	64.8%

GRAIN SIZE

Windward Environmental, LLC
04-08-06-29
LDW Dioxin Sampling

Apparent Grain Size Distribution Summary
Percent Retained in Each Size Fraction

Sample No.	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Coarse Silt	Medium Silt	Fine Silt	Very Fine Silt	Clay			Total Fines
Phi Size	> -1	-1 to 0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	< 10	<4
Sieve Size (microns)	> #10 (2000)	10 to 18 (2000-1000)	18-35 (1000-500)	35-60 (500-250)	60-120 (250-125)	120-230 (125-62)	62.5-31.0	31.0-15.6	15.6-7.8	7.8-3.9	3.9-2.0	2.0-1.0	<1.0	<230 (<62)
LDW-SS504-010	1.6	2.2	11.0	27.2	15.9	3.5	4.1	6.2	7.4	6.6	4.0	3.9	6.4	38.6
	0.5	1.8	11.0	27.5	16.2	3.7	4.5	6.7	7.3	6.5	4.2	3.7	6.3	39.2
	1.8	2.0	10.6	27.1	16.2	3.6	4.3	6.1	7.6	6.3	4.3	3.8	6.4	38.8
LDW-SS508-010	1.1	7.2	2.1	2.0	2.1	1.3	3.5	16.6	21.6	13.9	9.7	8.8	10.3	84.3
LDW-SS523-010	6.8	5.1	17.3	29.4	17.5	10.2	5.3	1.8	1.7	1.4	1.3	1.1	1.3	13.8
LDW-SS601-010	8.7	5.6	17.3	28.9	17.2	9.9	3.9	1.8	1.7	1.5	1.2	1.0	1.1	12.3
LDW-SS530-010	1.7	3.3	9.2	17.8	12.4	14.0	10.8	9.2	7.2	4.9	3.4	2.8	3.3	41.6
LDW-SS509-010	7.3	3.6	8.5	19.3	12.4	10.6	8.6	6.9	5.5	5.6	3.7	3.0	5.0	38.2
LDW-SS501-010	34.3	1.9	3.4	12.0	6.4	3.0	3.8	6.3	7.4	3.6	7.8	4.1	5.9	38.8
LDW-SS505-010	1.0	1.2	2.2	6.7	11.9	9.6	9.6	11.3	12.8	10.6	7.0	6.1	10.0	67.3
LDW-SS506-010	0.0	0.3	0.6	2.0	10.9	13.9	10.2	11.4	13.3	11.4	7.9	6.7	11.4	72.4
LDW-SS507-010	0.4	0.6	1.1	1.5	3.2	6.1	10.5	12.8	16.3	14.8	10.4	8.4	13.8	87.1
LDW-SS510-010	0.1	0.7	1.1	1.7	2.4	8.0	14.0	13.7	15.9	14.6	9.0	7.3	11.5	86.0
LDW-SS512-010	3.8	2.6	12.9	27.6	12.2	4.5	4.5	5.4	7.3	5.9	4.3	3.4	5.7	36.4

Notes to the Testing:
1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

QB98

Windward Environmental, LLC
LDW Dioxin Sampling
04-08-06-29

Apparent Grain Size Distribution Summary
Percent Retained in Each Size Fraction

Sample No.	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Coarse Silt	Medium Silt	Fine Silt	Very Fine Silt	Clay			Total Fines
Phi Size	> -1	-1 to 0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	< 10	<4
Sieve Size (microns)	> #10 (2000)	10 to 18 (2000-1000)	18-35 (1000-500)	35-60 (500-250)	60-120 (250-125)	120-230 (125-62)	62.5-31.0	31.0-15.6	15.6-7.8	7.8-3.9	3.9-2.0	2.0-1.0	<1.0	<230 (<62)
LDW-SS511-010	0.0	0.1	0.3	0.4	0.4	1.0	7.5	17.0	19.2	16.6	12.5	9.0	15.9	97.7
	0.0	0.1	0.1	0.2	0.2	0.9	5.6	16.9	20.4	17.6	13.0	8.6	16.4	98.5
	0.0	0.1	0.1	0.2	0.2	0.8	6.0	16.7	20.1	18.1	12.6	9.0	16.2	98.6
LDW-SS513-010	1.1	1.0	2.2	3.8	2.5	2.3	6.2	14.6	18.7	15.4	10.7	7.7	13.9	87.2
LDW-SS524-010	0.0	0.2	0.3	0.4	1.4	7.0	13.8	20.2	18.5	14.0	8.6	5.2	10.1	90.5
LDW-SS527-010	1.1	0.3	0.9	1.3	2.3	8.9	18.2	23.2	18.7	11.6	5.0	2.6	6.1	85.3
LDW-SS532-010	1.8	2.1	2.9	7.9	12.9	25.8	20.3	9.4	5.8	3.8	2.7	1.4	3.2	46.6
LDW-SS534-010	1.7	2.3	12.6	36.1	10.3	7.0	7.7	7.0	5.4	3.5	2.0	1.5	3.0	30.1
LDW-SS535-010	42.3	6.5	7.9	21.8	12.1	2.9	0.5	2.1	0.5	0.9	0.8	0.4	1.1	6.4
LDW-SS536-010	0.0	0.0	0.4	2.2	65.7	13.8	4.7	4.3	3.3	1.9	0.8	0.7	2.0	17.8
LDW-SS537-010	0.0	0.8	7.1	16.6	13.2	11.5	7.7	12.1	12.3	7.6	3.7	2.3	5.0	50.8
LDW-SS538-010	0.5	1.7	5.9	15.4	12.4	10.5	15.1	11.8	9.9	5.7	3.4	2.5	5.2	53.5
LDW-SS539-010	0.2	0.6	8.2	28.3	24.7	8.7	10.8	6.0	4.3	2.7	1.7	1.1	2.7	29.4
LDW-SS540-010	4.1	3.9	7.9	11.2	10.0	16.4	15.0	10.2	6.9	5.4	2.8	2.4	3.8	46.5

Notes to the Testing:
1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

QC15

Windward Environmental, LLC
LDW Dioxin Sampling
04-08-06-29

Apparent Grain Size Distribution Summary
Percent Retained in Each Size Fraction

Sample No.	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Coarse Silt	Medium Silt	Fine Silt	Very Fine Silt	Clay			Total Fines
Phi Size	> -1	-1 to 0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	< 10	<4
Sieve Size (microns)	> #10 (2000)	10 to 18 (2000-1000)	18-35 (1000-500)	35-60 (500-250)	60-120 (250-125)	120-230 (125-62)	62.5-31.0	31.0-15.6	15.6-7.8	7.8-3.9	3.9-2.0	2.0-1.0	<1.0	<230 (<62)
LDW-SS602-010	0.0	1.5	1.9	2.5	3.8	6.2	8.3	13.7	16.7	14.4	10.9	7.5	12.6	84.1
	0.0	3.3	2.6	3.6	3.8	6.3	6.2	13.5	16.2	14.2	9.1	9.0	12.2	80.4
	0.1	2.6	2.2	2.4	3.9	6.6	7.3	13.1	16.0	14.8	11.1	7.0	13.0	82.3
LDW-SS514-010	0.2	1.1	5.9	10.7	15.4	11.1	7.1	11.4	11.5	10.9	4.7	4.1	5.9	55.6
LDW-SS515-010	23.6	2.7	2.5	7.1	10.5	5.8	10.3	7.8	9.4	6.1	4.7	3.2	6.4	47.8
LDW-SS516-010	1.8	2.9	6.5	7.2	2.5	6.0	8.7	15.2	16.1	11.8	7.4	4.8	9.0	73.0
LDW-SS517-010	9.0	6.3	4.9	3.9	3.1	6.0	9.7	13.2	13.5	10.1	7.1	4.6	8.5	66.7
LDW-SS518-010	0.1	1.4	0.6	0.4	2.0	13.6	10.8	17.7	15.1	13.6	9.7	5.3	9.7	81.9
LDW-SS519-010	0.0	2.0	1.7	1.6	2.1	8.6	10.8	17.6	16.5	13.3	9.3	5.6	11.0	84.0
LDW-SS521-010	0.0	0.0	1.1	1.6	4.0	17.3	14.2	13.7	13.9	12.6	7.7	4.7	9.1	76.0
LDW-SS522-010	0.0	0.2	0.4	0.7	0.7	1.3	6.6	18.5	27.9	18.3	10.3	5.3	9.6	96.5
LDW-SS525-010	0.9	0.5	19.3	57.6	8.6	5.3	2.3	1.3	1.1	0.9	0.6	0.4	1.2	7.8
LDW-SS526-010	2.9	3.8	24.6	29.7	15.9	6.1	3.4	3.0	3.1	2.8	1.9	1.0	1.6	16.9
LDW-SS528-010	0.6	0.8	1.1	0.7	1.0	2.5	8.5	31.7	27.5	9.3	5.0	3.4	7.9	93.3

Notes to the Testing:
1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

QB99

Windward Environmental, LLC
04-08-06-29
LDW Dioxin Sampling

Apparent Grain Size Distribution Summary
Percent Retained in Each Size Fraction

Sample No.	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Coarse Silt	Medium Silt	Fine Silt	Very Fine Silt	Clay			Total Fines
Phi Size	> -1	-1 to 0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	< 10	<4
Sieve Size (microns)	> #10 (2000)	10 to 18 (2000-1000)	18-35 (1000-500)	35-60 (500-250)	60-120 (250-125)	120-230 (125-62)	62.5-31.0	31.0-15.6	15.6-7.8	7.8-3.9	3.9-2.0	2.0-1.0	<1.0	<230 (<62)
LDW-SS511-010	0.0	0.1	0.3	0.4	0.4	1.0	7.5	17.0	19.2	16.6	12.5	9.0	15.9	97.7
	0.0	0.1	0.1	0.2	0.2	0.9	5.6	16.9	20.4	17.6	13.0	8.6	16.4	98.5
	0.0	0.1	0.1	0.2	0.2	0.8	6.0	16.7	20.1	18.1	12.6	9.0	16.2	98.6
LDW-SS541-010	0.1	0.3	1.4	19.4	48.5	9.0	7.1	4.0	3.3	2.4	1.1	1.0	2.5	21.3
LDW-SS542-010	0.3	0.6	1.9	11.9	19.4	21.8	16.9	9.3	6.7	4.2	2.3	1.8	2.8	44.1
LDW-SS543-010	0.0	2.0	0.9	1.2	6.8	15.4	17.6	20.9	15.4	8.3	3.4	2.4	5.7	73.6
LDW-SS545-010	2.0	14.8	41.0	28.1	7.9	2.8	1.2	0.5	0.4	0.4	0.2	0.1	0.7	3.5
LDW-SS546-010	1.1	2.6	13.2	20.3	8.8	15.4	12.1	7.1	5.9	4.6	3.5	2.5	2.9	38.6
LDW-SS603-010	0.4	2.7	2.1	2.4	4.6	12.9	16.9	18.1	15.9	10.1	4.4	3.0	6.3	74.9

Notes to the Testing:
1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

Windward Environmental, LLC
LDW Dioxin Sampling

Apparent Grain Size Distribution Summary
Percent Retained in Each Size Fraction

Sample No.	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Coarse Silt	Medium Silt	Fine Silt	Very Fine Silt	Clay			Total Fines
Phi Size	> -1	-1 to 0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	< 10	<4
Sieve Size (microns)	> #10 (2000)	10 to 18 (2000-1000)	18-35 (1000-500)	35-60 (500-250)	60-120 (250-125)	120-230 (125-62)	62.5-31.0	31.0-15.6	15.6-7.8	7.8-3.9	3.9-2.0	2.0-1.0	<1.0	<230 (<62)
LDW-SS544-010-comp	0.2	1.3	5.5	14.7	11.7	16.9	14.3	12.6	7.5	4.6	3.4	2.3	5.0	49.6
	0.3	1.1	5.7	14.8	11.6	16.6	14.1	13.3	7.4	4.6	3.5	2.0	5.1	50.0
	0.3	1.3	5.4	14.8	11.7	17.0	13.2	13.6	7.3	4.6	3.3	2.3	5.1	49.4
LDW-SS502-010-comp	7.9	5.1	18.3	39.7	19.3	3.6	1.3	0.7	0.5	0.7	0.9	0.8	1.1	6.0
LDW-SS503-043-comp	4.1	3.5	18.1	41.2	16.4	4.5	2.5	2.6	1.9	1.4	1.2	0.9	1.7	12.2
LDW-SS529-041-comp	24.1	6.2	15.8	24.1	11.5	6.2	2.7	2.4	2.2	1.9	1.1	0.7	1.3	12.3
LDW-SS531-010-comp	9.6	5.7	15.9	29.4	12.9	4.6	4.5	3.2	3.5	3.4	2.8	1.8	2.7	21.9
LDW-SS533-043-comp	13.1	4.5	9.9	30.6	18.1	7.1	4.5	3.4	2.6	1.7	1.5	1.0	2.0	16.7
LDW-SS547-010	1.4	1.2	1.9	8.0	17.9	16.5	12.7	14.1	9.5	6.3	4.6	2.5	3.3	53.1
LDW-SS520-010	1.3	2.0	8.3	21.3	13.5	6.0	4.0	8.6	10.0	9.1	5.6	3.3	7.1	47.7

Notes to the Testing:
1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

CONVENTIONALS

SAMPLE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS501-010
ARI ID: 09-31124 QB98F

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	51.10
Total Organic Carbon	12/28/09 122809#1	Plumb,1981	Percent	0.020	2.17

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QF92-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/21/10

Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Client ID: LDW-SS502-010-comp
ARI ID: 10-1102 QF92A

Analyte	Date	Method	Units	RL	Sample
Total Solids	01/19/10 011910#1	EPA 160.3	Percent	0.01	72.80
Total Organic Carbon	01/20/10 012010#1	Plumb,1981	Percent	0.020	1.82

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
QF92-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/21/10

Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: QF92A Client ID: LDW-SS502-010-comp					
Total Solids	01/19/10	Percent	72.80	74.00 72.50	1.1%
Total Organic Carbon	01/20/10	Percent	1.82	1.81 2.36	15.8%

SAMPLE RESULTS-CONVENTIONALS
QF92-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/21/10

Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Client ID: LDW-SS503-043-comp
ARI ID: 10-1103 QF92B

Analyte	Date	Method	Units	RL	Sample
Total Solids	01/19/10 011910#1	EPA 160.3	Percent	0.01	76.20
Total Organic Carbon	01/20/10 012010#1	Plumb,1981	Percent	0.020	1.29

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS504-010
ARI ID: 09-31125 QB98G

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	68.30
Total Organic Carbon	12/28/09 122809#1	Plumb,1981	Percent	0.020	1.38

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS505-010
ARI ID: 09-31126 QB98H

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	55.30
Total Organic Carbon	12/28/09 122809#1	Plumb,1981	Percent	0.020	1.80

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS506-010
ARI ID: 09-31127 QB98I

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	56.40
Total Organic Carbon	12/28/09 122809#1	Plumb,1981	Percent	0.020	2.12

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS507-010
ARI ID: 09-31128 QB98J

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	47.20
Total Organic Carbon	12/28/09 122809#1	Plumb,1981	Percent	0.020	1.79

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS602-010
ARI ID: 09-31142 QB99L

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	47.00
Total Organic Carbon	12/29/09 122909#1	Plumb,1981	Percent	0.020	1.97

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/15/09
Date Received: 12/17/09

Client ID: LDW-SS508-010
ARI ID: 09-31119 QB98A

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	41.10
Total Organic Carbon	12/28/09 122809#1	Plumb,1981	Percent	0.136	6.77

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/15/09
Date Received: 12/17/09

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: QB98A Client ID: LDW-SS508-010					
Total Solids	12/22/09	Percent	41.10	42.00 42.10	1.3%
Total Organic Carbon	12/28/09	Percent	6.77	6.85 5.28	14.0%

SAMPLE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/15/09
Date Received: 12/17/09

Client ID: LDW-SS509-010
ARI ID: 09-31123 QB98E

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	40.30
Total Organic Carbon	12/28/09 122809#1	Plumb,1981	Percent	0.020	7.08

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS510-010
ARI ID: 09-31129 QB98K

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	48.60
Total Organic Carbon	12/28/09 122809#1	Plumb,1981	Percent	0.020	1.99

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS511-010
ARI ID: 09-31190 QC15A

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	43.70
Total Organic Carbon	01/04/10 010410#1	Plumb,1981	Percent	0.020	2.53

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS512-010
ARI ID: 09-31130 QB98L

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	64.50
Total Organic Carbon	12/28/09 122809#1	Plumb,1981	Percent	0.020	1.74

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS513-010
ARI ID: 09-31191 QC15B

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	47.90
Total Organic Carbon	12/31/09 123109#1	Plumb,1981	Percent	0.020	2.13

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS514-010
ARI ID: 09-31131 QB99A

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	53.40
Total Organic Carbon	12/29/09 122909#1	Plumb,1981	Percent	0.020	1.63

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS515-010
ARI ID: 09-31132 QB99B

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	53.80
Total Organic Carbon	12/29/09 122909#1	Plumb,1981	Percent	0.020	2.86

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS516-010
ARI ID: 09-31133 QB99C

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	53.20
Total Organic Carbon	12/29/09 122909#1	Plumb,1981	Percent	0.020	1.96

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS517-010
ARI ID: 09-31134 QB99D

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	52.80
Total Organic Carbon	12/29/09 122909#1	Plumb,1981	Percent	0.020	2.40

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS518-010
ARI ID: 09-31135 QB99E

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	52.50
Total Organic Carbon	12/29/09 122909#1	Plumb,1981	Percent	0.020	2.06

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS519-010
ARI ID: 09-31136 QB99F

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	47.10
Total Organic Carbon	12/29/09 122909#1	Plumb,1981	Percent	0.020	2.17

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QF92-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/21/10

Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Client ID: LDW-SS520-010
ARI ID: 10-1109 QF92H

Analyte	Date	Method	Units	RL	Sample
Total Solids	01/19/10 011910#1	EPA 160.3	Percent	0.01	59.70
Total Organic Carbon	01/20/10 012010#1	Plumb,1981	Percent	0.020	2.10

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS521-010
ARI ID: 09-31137 QB99G

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	50.70
Total Organic Carbon	12/29/09 122909#1	Plumb,1981	Percent	0.020	2.18

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS522-010
ARI ID: 09-31138 QB99H

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	43.20
Total Organic Carbon	12/29/09 122909#1	Plumb,1981	Percent	0.020	2.86

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/15/09
Date Received: 12/17/09

Client ID: LDW-SS523-010
ARI ID: 09-31120 QB98B

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	76.70
Total Organic Carbon	12/28/09 122809#1	Plumb,1981	Percent	0.020	0.982

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/15/09
Date Received: 12/17/09

Client ID: LDW-SS601-010
ARI ID: 09-31121 QB98C

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	77.80
Total Organic Carbon	12/28/09 122809#1	Plumb,1981	Percent	0.020	0.906

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS524-010
ARI ID: 09-31192 QC15C

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	47.40
Total Organic Carbon	12/31/09 123109#1	Plumb,1981	Percent	0.020	2.40

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS525-010
ARI ID: 09-31139 QB99I

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	74.40
Total Organic Carbon	12/29/09 122909#1	Plumb,1981	Percent	0.020	0.665

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: QB99I Client ID: LDW-SS525-010					
Total Solids	12/22/09	Percent	74.40	73.60 73.00	1.0%
Total Organic Carbon	12/29/09	Percent	0.665	0.748 0.605	10.7%

SAMPLE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS526-010
ARI ID: 09-31140 QB99J

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	68.80
Total Organic Carbon	12/29/09 122909#1	Plumb,1981	Percent	0.020	1.79

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS527-010
ARI ID: 09-31193 QC15D

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	46.60
Total Organic Carbon	12/31/09 123109#1	Plumb,1981	Percent	0.020	2.35

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: QC15D Client ID: LDW-SS527-010					
Total Solids	12/23/09	Percent	46.60	47.50 47.30	1.0%
Total Organic Carbon	12/31/09	Percent	2.35	2.06 2.13	6.9%

SAMPLE RESULTS-CONVENTIONALS
QC19-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS603-010
ARI ID: 09-31214 QC19G

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	47.40
Total Organic Carbon	01/04/10 010410#1	Plumb,1981	Percent	0.020	2.43

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB99-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/16/09
Date Received: 12/17/09

Client ID: LDW-SS528-010
ARI ID: 09-31141 QB99K

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	40.80
Total Organic Carbon	12/29/09 122909#1	Plumb,1981	Percent	0.020	3.04

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QF92-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/21/10

Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Client ID: LDW-SS529-041-comp
ARI ID: 10-1104 QF92C

Analyte	Date	Method	Units	RL	Sample
Total Solids	01/19/10 011910#1	EPA 160.3	Percent	0.01	75.60
Total Organic Carbon	01/20/10 012010#1	Plumb,1981	Percent	0.020	1.47

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QB98-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 12/31/09

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/15/09
Date Received: 12/17/09

Client ID: LDW-SS530-010
ARI ID: 09-31122 QB98D

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/22/09 122209#1	EPA 160.3	Percent	0.01	81.20
Total Organic Carbon	12/28/09 122809#1	Plumb,1981	Percent	0.020	1.56

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QF92-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/21/10

Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/12/10
Date Received: 01/18/10

Client ID: LDW-SS531-010-comp
ARI ID: 10-1105 QF92D

Analyte	Date	Method	Units	RL	Sample
Total Solids	01/19/10 011910#1	EPA 160.3	Percent	0.01	73.30
Total Organic Carbon	01/20/10 012010#1	Plumb,1981	Percent	0.020	1.23

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS532-010
ARI ID: 09-31194 QC15E

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	51.30
Total Organic Carbon	12/31/09 123109#1	Plumb,1981	Percent	0.020	2.27

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QF92-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/21/10

Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/12/10
Date Received: 01/18/10

Client ID: LDW-SS533-043-comp
ARI ID: 10-1106 QF92E

Analyte	Date	Method	Units	RL	Sample
Total Solids	01/19/10 011910#1	EPA 160.3	Percent	0.01	74.40
Total Organic Carbon	01/20/10 012010#1	Plumb,1981	Percent	0.020	1.40

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS534-010
ARI ID: 09-31195 QC15F

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	64.60
Total Organic Carbon	12/31/09 123109#1	Plumb,1981	Percent	0.020	1.72

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS535-010
ARI ID: 09-31196 QC15G

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	69.00
Total Organic Carbon	12/31/09 123109#1	Plumb,1981	Percent	0.020	1.38

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS536-010
ARI ID: 09-31197 QC15H

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	65.80
Total Organic Carbon	12/31/09 123109#1	Plumb,1981	Percent	0.020	1.05

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS537-010
ARI ID: 09-31198 QC15I

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	54.30
Total Organic Carbon	12/31/09 123109#1	Plumb,1981	Percent	0.020	1.54

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS538-010
ARI ID: 09-31199 QC15J

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	60.10
Total Organic Carbon	01/04/10 010410#1	Plumb,1981	Percent	0.020	2.15

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS539-010
ARI ID: 09-31200 QC15K

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	67.10
Total Organic Carbon	01/04/10 010410#1	Plumb,1981	Percent	0.020	1.37

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC15-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS540-010
ARI ID: 09-31201 QC15L

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	58.50
Total Organic Carbon	01/04/10 010410#1	Plumb,1981	Percent	0.020	1.45

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC19-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS541-010
ARI ID: 09-31208 QC19A

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	69.90
Total Organic Carbon	01/04/10 010410#1	Plumb,1981	Percent	0.020	1.10

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC19-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS542-010
ARI ID: 09-31209 QC19B

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	62.00
Total Organic Carbon	01/04/10 010410#1	Plumb,1981	Percent	0.020	1.16

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC19-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS543-010
ARI ID: 09-31210 QC19C

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	45.40
Total Organic Carbon	01/04/10 010410#1	Plumb,1981	Percent	0.020	3.64

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QF92-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/21/10

Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/12/10
Date Received: 01/18/10

Client ID: LDW-SS544-010-comp
ARI ID: 10-1107 QF92F

Analyte	Date	Method	Units	RL	Sample
Total Solids	01/19/10 011910#1	EPA 160.3	Percent	0.01	62.70
Total Organic Carbon	01/20/10 012010#1	Plumb,1981	Percent	0.020	1.88

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC19-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS545-010
ARI ID: 09-31211 QC19D

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	77.40
Total Organic Carbon	01/04/10 010410#1	Plumb,1981	Percent	0.020	1.01

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QC19-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized
Reported: 01/07/10

Project: LDW Dioxin Sampling
Event: 04-08-06-29
Date Sampled: 12/17/09
Date Received: 12/18/09

Client ID: LDW-SS546-010
ARI ID: 09-31212 QC19E

Analyte	Date	Method	Units	RL	Sample
Total Solids	12/23/09 122309#1	EPA 160.3	Percent	0.01	58.90
Total Organic Carbon	01/04/10 010410#1	Plumb,1981	Percent	0.020	2.60

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
QF92-Windward Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 01/21/10

Project: LDW Dioxin Sampling
Event: NA
Date Sampled: 01/11/10
Date Received: 01/18/10

Client ID: LDW-SS547-010
ARI ID: 10-1108 QF92G

Analyte	Date	Method	Units	RL	Sample
Total Solids	01/19/10 011910#1	EPA 160.3	Percent	0.01	52.30
Total Organic Carbon	01/20/10 012010#1	Plumb,1981	Percent	0.020	2.04

RL Analytical reporting limit
U Undetected at reported detection limit