

APPENDIX G

**LABORATORY AND DATA
VALIDATION REPORTS**

APPENDIX G INTERIM SOURCE REMOVAL ACTION (ISRA) PHASE I IMPLEMENTATION REPORT – 2009 ACTIVITIES

Electronic Copy of Validation Reports, COC Forms, and Case Narratives Readme File

This Readme file contains information and instructions regarding validation reports, chain-of-custody (COC) forms and case narratives, provided electronically on the read-only compact disc (CD) that contains this appendix, for samples collected as part of Interim Source Removal Action (ISRA) Phase I Activities in 2009.

There are two main components to this appendix:

- **Lab Reports:** The first part of this appendix contains lab reports. The electronic files are scanned images of hard copy documents presented in Portable Document Format (PDF) files, which can be viewed using Adobe Acrobat or Reader software. The electronic files are grouped and organized in this folder by the sample delivery group (SDG) number, a tracking and reporting number used by the laboratory to group samples upon receipt.

- **Validation Reports:** Validation reports include COCs and supporting documentation, analytical report case narratives, data qualifiers definitions, laboratory certifications, and a data assessment form completed by MEC^X, LLC (MEC^X) data validators. The validation report summaries identify the analytical method and target compounds for each sample. Additionally, the report indicates whether each compound was detected, the concentration (or detection limit if not detected), and applicable laboratory and data validation qualifiers. Data validation report PDFs are sorted by their validation report numbers.

The COCs were generated at the time of sample collection to document the handling and chain of custody for the samples.

The case narrative is text typically found at the beginning of the laboratory report. Laboratories use the case narrative to describe any deviation from standard handling or analytical procedures for a sample or SDG.

Change Forms are generated for changes made to samples or analyses subsequent to shipment of the samples to the laboratory. Generally, change forms were generated when changes or corrections to a COC were needed (e.g., when additional analyses were requested for a sample).



March 05, 2010

Ms. Elizabeth Wessling
MECx, LLC
3061 West 92nd Ave #10-D
Westminster, Colorado 80031

Re: SSFL
Project Number: 1891614.050104
Project Name: ISRA Sampling, Feb 2009
Work Order: 225106
SDG: 225106

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 25, 2009. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4426.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.050104
Chain of Custody: MWHAL20090224_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106001

BASIS: As Received

DATE COLLECTED 24-FEB-09

CLIENT ID: EBQW2204

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	1.5	ug/L	U	1.5	5	5	1	MS	BAJ	03/04/09 18:53	090304-1	845297
7440-43-9	Cadmium	0.110	ug/L	U	0.11	1	1	1	MS	BAJ	03/04/09 18:53	090304-1	845297
7440-50-8	Copper	0.440	ug/L	J	0.3	1	1	1	MS	BAJ	03/04/09 18:53	090304-1	845297
7439-92-1	Lead	0.50	ug/L	U	0.5	2	2	1	MS	BAJ	03/04/09 18:53	090304-1	845297
7440-66-6	Zinc	2.6	ug/L	U	2.6	10	10	1	MS	BAJ	03/04/09 18:53	090304-1	845297

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845297	845296	SW846 3005A	50	mL	50	mL	02/26/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106002 **BASIS:** As Received **DATE COLLECTED** 24-FEB-09
CLIENT ID: FBQW2229 **LEVEL:** Low **DATE RECEIVED** 25-FEB-09
MATRIX: WATER **%SOLIDS:** 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	1.5	ug/L	U	1.5	5	5	1	MS	BAJ	03/04/09 18:59	090304-1	845297
7440-43-9	Cadmium	0.250	ug/L	J	0.11	1	1	1	MS	BAJ	03/04/09 18:59	090304-1	845297
7440-50-8	Copper	0.480	ug/L	J	0.3	1	1	1	MS	BAJ	03/04/09 18:59	090304-1	845297
7439-92-1	Lead	0.50	ug/L	U	0.5	2	2	1	MS	BAJ	03/04/09 18:59	090304-1	845297
7440-66-6	Zinc	2.6	ug/L	U	2.6	10	10	1	MS	BAJ	03/04/09 18:59	090304-1	845297

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845297	845296	SW846 3005A	50	mL	50	mL	02/26/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106003

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0062S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 91.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	13.3	mg/kg		0.108	0.43	0.4	2	MS	BAJ	03/04/09 22:33	090304-2	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.508	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106004

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0063S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 83

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	25.7	mg/kg		0.578	2.31	0.4	10	MS	BAJ	03/05/09 03:28	090304-3	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.518	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106005

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0064S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	11.7	mg/kg		0.115	0.462	0.4	2	MS	BAJ	03/04/09 22:45	090304-2	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.507	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106006

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0065S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	13.1	mg/kg		0.111	0.446	0.4	2	MS	BAJ	03/04/09 23:04	090304-2	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.515	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106009

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0070S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.220	mg/kg	J	0.0227	0.227	0.2	2	MS	BAJ	03/04/09 23:47	090304-2	845337
7439-92-1	Lead	13.2	mg/kg		0.113	0.454	0.4	2	MS	BAJ	03/04/09 23:47	090304-2	845337
7440-66-6	Zinc	51.3	mg/kg		2.27	11.3	5	10	MS	BAJ	03/05/09 04:36	090304-3	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.503	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106010

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0073S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 97

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	8.3	mg/kg		0.103	0.411	0.4	2	MS	BAJ	03/04/09 23:53	090304-2	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.502	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106012

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0086S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	4.5	mg/kg		0.345	1.15	0.5	2	MS	BAJ	03/05/09 00:24	090304-2	845337
7440-43-9	Cadmium	0.40	mg/kg		0.023	0.23	0.2	2	MS	BAJ	03/05/09 00:24	090304-2	845337
7440-50-8	Copper	15.9	mg/kg	*E	0.23	1.15	0.2	10	MS	BAJ	03/05/09 05:13	090304-3	845337
7439-92-1	Lead	9.8	mg/kg		0.115	0.46	0.4	2	MS	BAJ	03/05/09 00:24	090304-2	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.51	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106013

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0087S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	4.8	mg/kg		0.354	1.18	0.5	2	MS	BAJ	03/05/09 00:30	090304-2	845337
7440-43-9	Cadmium	0.390	mg/kg		0.0236	0.236	0.2	2	MS	BAJ	03/05/09 00:30	090304-2	845337
7440-50-8	Copper	16.9	mg/kg	*E	0.236	1.18	0.2	10	MS	BAJ	03/05/09 05:19	090304-3	845337
7439-92-1	Lead	9.6	mg/kg		0.118	0.472	0.4	2	MS	BAJ	03/05/09 00:30	090304-2	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.5	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106014

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0088D001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	5.4	mg/kg		0.355	1.18	0.5	2	MS	BAJ	03/05/09 00:48	090304-2	845337
7440-43-9	Cadmium	0.410	mg/kg		0.0237	0.237	0.2	2	MS	BAJ	03/05/09 00:48	090304-2	845337
7440-50-8	Copper	15.3	mg/kg	*E	0.237	1.18	0.2	10	MS	BAJ	03/05/09 05:38	090304-3	845337
7439-92-1	Lead	12.7	mg/kg		0.118	0.474	0.4	2	MS	BAJ	03/05/09 00:48	090304-2	845337
7440-66-6	Zinc	77.5	mg/kg		2.37	11.8	5	10	MS	BAJ	03/05/09 05:38	090304-3	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.513	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106015 **BASIS:** Dry Weight **DATE COLLECTED** 24-FEB-09
CLIENT ID: HZBS0088S001 **LEVEL:** Low **DATE RECEIVED** 25-FEB-09
MATRIX: SOIL **%SOLIDS:** 83

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	4.2	mg/kg		0.356	1.19	0.5	2	MS	BAJ	03/05/09 00:55	090304-2	845337
7440-43-9	Cadmium	0.360	mg/kg		0.0238	0.238	0.2	2	MS	BAJ	03/05/09 00:55	090304-2	845337
7440-50-8	Copper	13.9	mg/kg	*E	0.238	1.19	0.2	10	MS	BAJ	03/05/09 05:44	090304-3	845337
7439-92-1	Lead	11.1	mg/kg		0.119	0.475	0.4	2	MS	BAJ	03/05/09 00:55	090304-2	845337
7440-66-6	Zinc	71.7	mg/kg		2.38	11.9	5	10	MS	BAJ	03/05/09 05:44	090304-3	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.508	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106016

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0089S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 90.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	14.9	mg/kg		0.11	0.439	0.4	2	MS	BAJ	03/05/09 01:01	090304-2	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.502	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106017

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0090S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 92.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	7.6	mg/kg		0.105	0.42	0.4	2	MS	BAJ	03/05/09 01:07	090304-2	845337
7440-66-6	Zinc	57.9	mg/kg		2.1	10.5	5	10	MS	BAJ	03/05/09 05:56	090304-3	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.517	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106018

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0091S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	8	mg/kg		0.112	0.449	0.4	2	MS	BAJ	03/05/09 01:13	090304-2	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.513	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106019

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0093S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	4.4	mg/kg		0.335	1.12	0.5	2	MS	BAJ	03/05/09 01:19	090304-2	845337
7440-43-9	Cadmium	0.380	mg/kg		0.0223	0.223	0.2	2	MS	BAJ	03/05/09 01:19	090304-2	845337
7440-50-8	Copper	15.3	mg/kg	*E	0.223	1.12	0.2	10	MS	BAJ	03/05/09 06:09	090304-3	845337
7439-92-1	Lead	9.8	mg/kg		0.112	0.446	0.4	2	MS	BAJ	03/05/09 01:19	090304-2	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.521	g	50	mL	02/26/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225106

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225106021 **BASIS:** Dry Weight **DATE COLLECTED** 24-FEB-09
CLIENT ID: HZBS0095S001 **LEVEL:** Low **DATE RECEIVED** 25-FEB-09
MATRIX: SOIL **%SOLIDS:** 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	4.3	mg/kg		0.343	1.14	0.5	2	MS	BAJ	03/05/09 01:26	090304-2	845337
7440-43-9	Cadmium	0.390	mg/kg		0.0229	0.229	0.2	2	MS	BAJ	03/05/09 01:26	090304-2	845337
7440-50-8	Copper	14.8	mg/kg	*E	0.229	1.14	0.2	10	MS	BAJ	03/05/09 06:15	090304-3	845337
7439-92-1	Lead	9.8	mg/kg		0.114	0.457	0.4	2	MS	BAJ	03/05/09 01:26	090304-2	845337

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845337	845336	SW846 3050B	0.511	g	50	mL	02/26/09	BXA1

Subcontract Data

Dioxins

Method 1613
EBQW2204
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	Adj. RL (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.00214	0.00948			
1,2,3,7,8-PeCDD	ND	0.00339	0.0474			
1,2,3,4,7,8-HxCDD	ND	0.00509	0.0474			
1,2,3,6,7,8-HxCDD	ND	0.00492	0.0474			
1,2,3,7,8,9-HxCDD	ND	0.00504	0.0474			
1,2,3,4,6,7,8-HpCDD	ND	0.0101	0.0474			
OCDD	ND	0.0191	0.0948			
2,3,7,8-TCDF	ND	0.00288	0.00948			
1,2,3,7,8-PeCDF	ND	0.00177	0.0474			
2,3,4,7,8-PeCDF	ND	0.00187	0.0474			
1,2,3,4,7,8-HxCDF	ND	0.00346	0.0474			
1,2,3,6,7,8-HxCDF	ND	0.00331	0.0474			
2,3,4,6,7,8-HxCDF	ND	0.00355	0.0474			
1,2,3,7,8,9-HxCDF	ND	0.00448	0.0474			
1,2,3,4,6,7,8-HpCDF	ND	0.00522	0.0474			
1,2,3,4,7,8,9-HpCDF	ND	0.00781	0.0474			
OCDF	ND	0.0157	0.0948			
Total TCDDs	ND	0.00214	0.00948			
Total PeCDDs	ND	0.00339	0.0474			
Total HxCDDs	ND	0.00501	0.0474			
Total HpCDDs	ND	0.0101	0.0474			
Total TCDFs	ND	0.00288	0.00948			
Total PeCDFs	ND	0.00208	0.0474			
Total HxCDFs	ND	0.00366	0.0474			
Total HpCDFs	ND	0.00638	0.0474			
WHO-2005 TEQ (ND=0)	0.000					
WHO-2005 TEQ (ND=1/2)	0.00966					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 225106	Matrix:	Water
Sample ID:	EBQW2204	Weight / Volume:	1055 mL
		Solids / Lipids:	NA %
		Original pH :	7
		Batch ID:	WG17016
<u>Laboratory Information</u>		Filename:	a05mar09b_4-5
Project ID:	G341-567	Retchk:	a05mar09b_4-1
Sample ID:	G341-567-1D	Begin ConCal:	a05mar09b_4-1
Collection Date/Time:	24-Feb-09 15:15		
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	05-Mar-09		
Analysis Date:	7-Mar-09 8:01	Initial Cal:	m1613-100708a

Method 1613
EBQW2204
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.71	85.7	31:24	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.83	91.5	34:14	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.73	86.3	36:52	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.77	88.5	36:57	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.62	81.2	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	2.44	60.9	44:46	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.65	82.7	30:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.86	93.1	33:26	1.58	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.80	90.0	34:03	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.73	86.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.78	89.2	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.74	86.8	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.71	85.6	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.63	81.3	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.71	85.3	41:01	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.390	97.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.25	

Client Information		Sample Information	
Project Name:	SSFL 225106	Matrix:	Water
Sample ID:	EBQW2204	Weight / Volume:	1055 mL
		Solids / Lipids:	NA %
		Original pH :	7
		Batch ID:	WG17016
Laboratory Information		Filename:	a05mar09b_4-5
Project ID:	G341-567	Retchk:	a05mar09b_4-1
Sample ID:	G341-567-1D	Begin ConCal:	a05mar09b_4-1
Collection Date/Time:	24-Feb-09 15:15	Initial Cal:	m1613-100708a
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	05-Mar-09		
Analysis Date:	07-Mar-09 8:01		
Analyzed by: <u>JWP</u>		Reviewed by: <u>TM</u>	
Date: <u>030909</u>		Date: <u>031009</u>	

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Method 1613
FBQW2229
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	Adj. RL (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.00185	0.00950			
1,2,3,7,8-PeCDD	ND	0.00323	0.0475			
1,2,3,4,7,8-HxCDD	ND	0.00434	0.0475			
1,2,3,6,7,8-HxCDD	ND	0.00406	0.0475			
1,2,3,7,8,9-HxCDD	ND	0.00422	0.0475			
1,2,3,4,6,7,8-HpCDD	ND	0.00698	0.0475			
OCDD	ND	0.0158	0.0950			
2,3,7,8-TCDF	ND	0.00285	0.00950			
1,2,3,7,8-PeCDF	ND	0.00179	0.0475			
2,3,4,7,8-PeCDF	ND	0.00179	0.0475			
1,2,3,4,7,8-HxCDF	ND	0.00213	0.0475			
1,2,3,6,7,8-HxCDF	ND	0.00212	0.0475			
2,3,4,6,7,8-HxCDF	ND	0.00229	0.0475			
1,2,3,7,8,9-HxCDF	ND	0.00291	0.0475			
1,2,3,4,6,7,8-HpCDF	ND	0.00428	0.0475			
1,2,3,4,7,8,9-HpCDF	ND	0.00645	0.0475			
OCDF	ND	0.0154	0.0950			
Total TCDDs	ND	0.00185	0.00950			
Total PeCDDs	ND	0.00323	0.0475			
Total HxCDDs	ND	0.00421	0.0475			
Total HpCDDs	ND	0.00698	0.0475			
Total TCDFs	ND	0.00285	0.00950			
Total PeCDFs	ND	0.00175	0.0475			
Total HxCDFs	ND	0.00234	0.0475			
Total HpCDFs	ND	0.00524	0.0475			
WHO-2005 TEQ (ND=0)	0.000					
WHO-2005 TEQ (ND=1/2)	0.00835					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 225106	Matrix:	Water
Sample ID:	FBQW2229	Weight / Volume:	1053 mL
		Solids / Lipids:	NA %
		Original pH :	7
		Batch ID:	WG17016
<u>Laboratory Information</u>		Filename:	a05mar09b_4-6
Project ID:	G341-567	Retchk:	a05mar09b_4-1
Sample ID:	G341-567-2C	Begin ConCal:	a05mar09b_4-1
Collection Date/Time:	24-Feb-09 15:00	Initial Cal:	m1613-100708a
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	05-Mar-09		
Analysis Date:	7-Mar-09 8:49		

Method 1613
FBQW2229
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.73	86.3	31:25	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.88	94.1	34:14	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.73	86.3	36:52	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.83	91.3	36:57	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.68	84.2	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	2.80	70.0	44:46	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.68	84.0	30:48	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.88	93.8	33:26	1.57	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.85	92.6	34:03	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.75	87.3	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.82	90.9	36:16	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.75	87.3	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.75	87.7	37:32	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.73	86.3	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.77	88.6	41:02	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.402	101	31:26	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:56	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.24	

Client Information		Sample Information	
Project Name:	SSFL 225106	Matrix:	Water
Sample ID:	FBQW2229	Weight / Volume:	1053 mL
		Solids / Lipids:	NA %
		Original pH :	7
		Batch ID:	WG17016
Laboratory Information		Filename:	a05mar09b_4-6
Project ID:	G341-567	Retchk:	a05mar09b_4-1
Sample ID:	G341-567-2C	Begin ConCal:	a05mar09b_4-1
Collection Date/Time:	24-Feb-09 15:00	Initial Cal:	m1613-100708a
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	05-Mar-09		
Analysis Date:	07-Mar-09 8:49		
Analyzed by: <u>Jw</u>		Reviewed by: <u>mm</u>	
Date: <u>03/09/09</u>		Date: <u>03/09/09</u>	

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Method 1613 HZBS0067D001 General Engineering Labs
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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.235	0.905			
1,2,3,7,8-PeCDD	ND	0.291	4.52			
1,2,3,4,7,8-HxCDD	ND	0.433	4.52			
1,2,3,6,7,8-HxCDD	0.460	0.439	4.52	36:57	1.21	A
1,2,3,7,8,9-HxCDD	ND	0.439	4.52			
1,2,3,4,6,7,8-HpCDD	7.41	0.661	4.52	40:21	1.07	
OCDD	72.6	1.23	9.05	44:46	0.89	
2,3,7,8-TCDF	ND	0.323	0.905			
1,2,3,7,8-PeCDF	ND	0.196	4.52			
2,3,4,7,8-PeCDF	ND	0.277	4.52			EMPC
1,2,3,4,7,8-HxCDF	ND	0.300	4.52			
1,2,3,6,7,8-HxCDF	ND	0.295	4.52			
2,3,4,6,7,8-HxCDF	ND	0.293	4.52			
1,2,3,7,8,9-HxCDF	ND	0.389	4.52			
1,2,3,4,6,7,8-HpCDF	1.40	0.373	4.52	39:05	1.04	A
1,2,3,4,7,8,9-HpCDF	ND	0.515	4.52			
OCDF	3.39	1.26	9.05	45:03	0.95	A
Total TCDDs	ND	0.235	0.905			
Total PeCDDs	0.427	0.291	4.52			A
Total HxCDDs	2.92	0.437	4.52			A
Total HpCDDs	28.2	0.661	4.52			
Total TCDFs	0.845	0.323	0.905			A
Total PeCDFs	2.27	0.205	4.52			A
Total HxCDFs	2.25	0.316	4.52			A
Total HpCDFs	3.25	0.437	4.52			A
WHO-2005 TEQ (ND=0)	0.157					
WHO-2005 TEQ (ND=1/2)	1.02					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0067D001	Matrix:	Soil
		Weight / Volume:	12.99 Grams
		Solids / Lipids:	85.1 %
		Original pH :	NA
		Batch ID:	WG17015
<u>Laboratory Information</u>			
Project ID:	G341-567	Filename:	a05mar09b_4-10
Sample ID:	G341-567-4B	Retchk:	a05mar09b_4-1
Collection Date:	24-Feb-09	Begin ConCal:	a05mar09b_4-1
Receipt Date:	26-Feb-09 9:45	Initial Cal:	m1613-100708a
Extraction Date:	04-Mar-09		
Analysis Date:	7-Mar-09 12:02		

Method 1613
HZBS0067D001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.61	80.6	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.66	82.9	34:14	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.53	76.4	36:51	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.77	88.4	36:57	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.60	79.9	40:20	1.06	
¹³ C ₁₂ -OCDD	4.00	2.54	63.6	44:45	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.60	80.1	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.72	86.1	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.63	81.6	34:03	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.59	79.5	36:09	0.56	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.68	83.9	36:15	0.50	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.64	81.8	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.62	81.1	37:31	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.58	79.1	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.64	82.2	41:01	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.318	79.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.25	

Client Information		Sample Information	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0067D001	Matrix:	Soil
		Weight / Volume:	12.99 Grams
		Solids / Lipids:	85.1 %
		Original pH :	NA
		Batch ID:	WG17015
Laboratory Information		Filename:	a05mar09b_4-10
Project ID:	G341-567	Retchk:	a05mar09b_4-1
Sample ID:	G341-567-4B	Begin ConCal:	a05mar09b_4-1
Collection Date:	24-Feb-09	Initial Cal:	m1613-100708a
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	04-Mar-09		
Analysis Date:	07-Mar-09 12:02		
Analyzed by: <u>JWP</u>		Reviewed by: <u>YJM</u>	
Date: <u>03/10/09</u>		Date: <u>03/10/09</u>	

Method 1613 HZBS0067S001 General Engineering Labs
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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.210	0.848			
1,2,3,7,8-PeCDD	ND	0.948	4.24			
1,2,3,4,7,8-HxCDD	ND	1.36	4.24			
1,2,3,6,7,8-HxCDD	ND	1.35	4.24			
1,2,3,7,8,9-HxCDD	ND	1.36	4.24			
1,2,3,4,6,7,8-HpCDD	7.07	1.60	4.24	40:21	1.01	
OCDD	64.6	3.29	8.48	44:46	0.87	
2,3,7,8-TCDF	ND	0.340	0.848			
1,2,3,7,8-PeCDF	ND	0.532	4.24			
2,3,4,7,8-PeCDF	ND	0.536	4.24			
1,2,3,4,7,8-HxCDF	ND	0.889	4.24			
1,2,3,6,7,8-HxCDF	ND	0.807	4.24			
2,3,4,6,7,8-HxCDF	ND	0.845	4.24			
1,2,3,7,8,9-HxCDF	ND	1.09	4.24			
1,2,3,4,6,7,8-HpCDF	1.42	1.01	4.24	39:06	1.11	A
1,2,3,4,7,8,9-HpCDF	ND	1.57	4.24			
OCDF	ND	3.64	8.48			
Total TCDDs	ND	0.210	0.848			
Total PeCDDs	ND	0.948	4.24			
Total HxCDDs	ND	1.36	4.24			
Total HpCDDs	26.9	1.60	4.24			
Total TCDFs	0.877	0.340	0.848			
Total PeCDFs	1.66	0.534	4.24			A
Total HxCDFs	1.03	0.900	4.24			A
Total HpCDFs	3.21	1.25	4.24			A
WHO-2005 TEQ (ND=0)	0.104					
WHO-2005 TEQ (ND=1/2)	2.26					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0067S001	Matrix:	Soil
		Weight / Volume:	13.85 Grams
		Solids / Lipids:	85.2 %
		Original pH :	NA
		Batch ID:	WG17015
<u>Laboratory Information</u>			
Project ID:	G341-567	Filename:	a05mar09b_4-11
Sample ID:	G341-567-5B	Retchk:	a05mar09b_4-1
Collection Date/Time:	24-Feb-09 08:20	Begin ConCal:	a05mar09b_4-1
Receipt Date:	26-Feb-09 9:45	Initial Cal:	m1613-100708a
Extraction Date:	04-Mar-09		
Analysis Date:	7-Mar-09 12:50		

Method 1613
HZBS0067S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.54	77.0	31:24	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.64	81.9	34:14	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.55	77.3	36:51	1.40	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.65	82.4	36:57	1.16	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.50	74.8	40:21	1.07	
¹³ C ₁₂ -OCDD	4.00	2.41	60.2	44:45	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.56	78.2	30:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.66	82.9	33:26	1.56	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.59	79.3	34:03	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.59	79.5	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.60	79.8	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.61	80.5	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.58	78.9	37:31	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.52	75.8	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.51	75.7	41:01	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.312	78.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.81	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.26	

Client Information		Sample Information	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0067S001	Matrix:	Soil
		Weight / Volume:	13.85 Grams
		Solids / Lipids:	85.2 %
		Original pH :	NA
		Batch ID:	WG17015
Laboratory Information			
Project ID:	G341-567	Filename:	a05mar09b_4-11
Sample ID:	G341-567-5B	Retchk:	a05mar09b_4-1
Collection Date/Time:	24-Feb-09 08:20	Begin ConCal:	a05mar09b_4-1
Receipt Date:	26-Feb-09 9:45	Initial Cal:	m1613-100708a
Extraction Date:	04-Mar-09		
Analysis Date:	07-Mar-09 12:50		
Analyzed by: <u>SWP</u>		Reviewed by: <u>JM</u>	
Date: <u>03/10/09</u>		Date: <u>03/10/09</u>	

Form Version: [1613_ed] Report

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Analytical Data Summary Sheet



Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.239	0.917			
1,2,3,7,8-PeCDD	ND	0.355	4.59			
1,2,3,4,7,8-HxCDD	0.624	0.430	4.59	36:52	1.31	A
1,2,3,6,7,8-HxCDD	2.07	0.412	4.59	36:58	1.27	A
1,2,3,7,8,9-HxCDD	1.83	0.422	4.59	37:13	1.19	A
1,2,3,4,6,7,8-HpCDD	70.0	0.968	4.59	40:21	1.05	
OCDD	938	1.74	9.17	44:46	0.90	
2,3,7,8-TCDF	0.391	0.313	0.917	30:48	0.86	A
1,2,3,7,8-PeCDF	0.341	0.230	4.59	33:26	1.53	A
2,3,4,7,8-PeCDF	0.607	0.215	4.59	34:04	1.65	A
1,2,3,4,7,8-HxCDF	0.743	0.376	4.59	36:09	1.33	A
1,2,3,6,7,8-HxCDF	0.598	0.345	4.59	36:15	1.28	A
2,3,4,6,7,8-HxCDF	0.506	0.355	4.59	36:45	1.31	A
1,2,3,7,8,9-HxCDF	ND	0.512	4.59			EMPC
1,2,3,4,6,7,8-HpCDF	8.02	0.468	4.59	39:05	0.93	
1,2,3,4,7,8,9-HpCDF	ND	0.680	4.59			
OCDF	18.2	1.66	9.17	45:03	0.91	
Total TCDDs	ND	0.239	0.917			
Total PeCDDs	0.536	0.355	4.59			A
Total HxCDDs	20.5	0.421	4.59			
Total HpCDDs	403	0.968	4.59			
Total TCDFs	1.56	0.313	0.917			
Total PeCDFs	5.06	0.223	4.59			
Total HxCDFs	17.2	0.385	4.59			
Total HpCDFs	26.0	0.563	4.59			
WHO-2005 TEQ (ND=0)	1.94					
WHO-2005 TEQ (ND=1/2)	2.59					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0070S001	Matrix:	Soil
		Weight / Volume:	12.40 Grams
		Solids / Lipids:	87.9 %
		Original pH :	NA
		Batch ID:	WG17015
<u>Laboratory Information</u>			
Project ID:	G341-567	Filename:	a05mar09b_5-4
Sample ID:	G341-567-6B	Retchk:	a05mar09b_4-15
Collection Date/Time:	24-Feb-09 14:45	Begin ConCal:	a05mar09b_4-15
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	04-Mar-09		
Analysis Date:	7-Mar-09 19:22	Initial Cal:	m1613-100708a

Method 1613
HZBS0070S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.54	77.1	31:24	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.68	84.2	34:14	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.53	76.5	36:51	1.25	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.77	88.4	36:57	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.62	81.0	40:20	1.06	
¹³ C ₁₂ -OCDD	4.00	2.51	62.8	44:45	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.52	76.1	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.71	85.7	33:26	1.57	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.67	83.4	34:03	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.63	81.5	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.60	80.2	36:15	0.54	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.64	82.0	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.62	81.1	37:31	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.56	78.0	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.62	80.9	41:01	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.304	76.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.25	

Client Information		Sample Information	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0070S001	Matrix:	Soil
		Weight / Volume:	12.40 Grams
		Solids / Lipids:	87.9 %
		Original pH :	NA
		Batch ID:	WG17015
Laboratory Information		Filename:	a05mar09b_5-4
Project ID:	G341-567	Retchk:	a05mar09b_4-15
Sample ID:	G341-567-6B	Begin ConCal:	a05mar09b_4-15
Collection Date/Time:	24-Feb-09 14:45	Initial Cal:	m1613-100708a
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	04-Mar-09		
Analysis Date:	07-Mar-09 19:22		
Analyzed by: 		Reviewed by: 	
Date: 03/10/09		Date: 03/10/09	

Form Version: [1613_ed]Report

Method 1613 HZBS0073S001 General Engineering Labs
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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.293	0.841			
1,2,3,7,8-PeCDD	ND	0.396	4.20			
1,2,3,4,7,8-HxCDD	ND	0.673	4.20			
1,2,3,6,7,8-HxCDD	ND	0.678	4.20			
1,2,3,7,8,9-HxCDD	ND	0.680	4.20			
1,2,3,4,6,7,8-HpCDD	10.1	0.779	4.20	40:25	0.98	
OCDD	163	1.53	8.41	44:53	0.88	
2,3,7,8-TCDF	ND	0.662	0.841			
1,2,3,7,8-PeCDF	ND	0.403	4.20			
2,3,4,7,8-PeCDF	ND	0.450	4.20			
1,2,3,4,7,8-HxCDF	ND	0.628	4.20			
1,2,3,6,7,8-HxCDF	ND	0.606	4.20			
2,3,4,6,7,8-HxCDF	ND	0.657	4.20			
1,2,3,7,8,9-HxCDF	ND	0.792	4.20			
1,2,3,4,6,7,8-HpCDF	2.36	0.506	4.20	39:08	1.01	A
1,2,3,4,7,8,9-HpCDF	ND	0.691	4.20			
OCDF	4.91	1.35	8.41	45:10	0.84	A
Total TCDDs	ND	0.293	0.841			
Total PeCDDs	ND	0.396	4.20			
Total HxCDDs	0.859	0.677	4.20			A
Total HpCDDs	41.6	0.779	4.20			
Total TCDFs	ND	0.662	0.841			
Total PeCDFs	1.31	0.426	4.20			A
Total HxCDFs	2.82	0.666	4.20			A
Total HpCDFs	5.84	0.588	4.20			
WHO-2005 TEQ (ND=0)	0.175					
WHO-2005 TEQ (ND=1/2)	1.56					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0073S001	Matrix:	Soil
		Weight / Volume:	12.37 Grams
		Solids / Lipids:	96.1 %
		Original pH :	NA
		Batch ID:	WG17015
<u>Laboratory Information</u>		Filename:	a05mar09b_4-12
Project ID:	G341-567	Retchk:	a05mar09b_4-1
Sample ID:	G341-567-7B	Begin ConCal:	a05mar09b_4-1
Collection Date/Time:	24-Feb-09 08:47	Initial Cal:	m1613-100708a
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	04-Mar-09		
Analysis Date:	7-Mar-09 13:39		

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 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.64	82.1	31:25	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.78	89.1	34:14	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.61	80.7	36:53	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.69	84.3	36:58	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.55	77.5	40:24	1.06	
¹³ C ₁₂ -OCDD	4.00	2.50	62.5	44:52	0.89	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.61	80.6	30:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.79	89.3	33:26	1.58	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.75	87.3	34:03	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.62	81.1	36:10	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.62	80.9	36:16	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.62	81.1	36:46	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.62	80.8	37:33	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.54	77.1	39:07	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.59	79.5	41:04	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.316	79.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.25	

Client Information		Sample Information	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0073S001	Matrix:	Soil
		Weight / Volume:	12.37 Grams
		Solids / Lipids:	96.1 %
		Original pH :	NA
		Batch ID:	WG17015
Laboratory Information		Filename:	a05mar09b_4-12
Project ID:	G341-567	Retchk:	a05mar09b_4-1
Sample ID:	G341-567-7B	Begin ConCal:	a05mar09b_4-1
Collection Date/Time:	24-Feb-09 08:47	Initial Cal:	m1613-100708a
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	04-Mar-09		
Analysis Date:	07-Mar-09 13:39		
Analized by: <u>JWP</u>		Reviewed by: <u>TM</u>	
Date: <u>03/10/09</u>		Date: <u>03/10/09</u>	

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Method 1613

Results for MS/MSD

HZBS0073S001

Analyte	Sample	Spike	MS	%REC	#	MSD	%REC	#	%RPD	#
	pg/g	pg	pg/g	(70-130)		pg/g	(70-130)		(20)	
2,3,7,8-TCDD	ND	200	17.3	98.5		16.6	93.0		4.13	
1,2,3,7,8-PeCDD	ND	1000	84.4	96.2		82.8	92.8		1.91	
1,2,3,4,7,8-HxCDD	ND	1000	86.2	98.2		85.7	96.1		0.582	
1,2,3,6,7,8-HxCDD	ND	1000	83.5	95.1		82.6	92.6		1.08	
1,2,3,7,8,9-HxCDD	ND	1000	84.2	95.9		83.5	93.6		0.835	
1,2,3,4,6,7,8-HpCDD	10.1	1000	94.2	95.8		93.5	93.5		0.746	
OCDD	163	2000	296	75.8		301	77.3		1.68	
2,3,7,8-TCDF	ND	200	16.6	94.6		16.7	93.6		0.601	
1,2,3,7,8-PeCDF	ND	1000	85.7	97.6		84.6	94.8		1.29	
2,3,4,7,8-PeCDF	ND	1000	86.0	98.0		84.1	94.3		2.23	
1,2,3,4,7,8-HxCDF	ND	1000	86.2	98.2		84.9	95.2		1.52	
1,2,3,6,7,8-HxCDF	ND	1000	87.3	99.5		86.0	96.4		1.50	
2,3,4,6,7,8-HxCDF	ND	1000	86.9	99.0		84.8	95.1		2.45	
1,2,3,7,8,9-HxCDF	ND	1000	86.9	99.0		84.9	95.2		2.33	
1,2,3,4,6,7,8-HpCDF	2.36	1000	84.7	93.8		82.9	90.3		2.15	
1,2,3,4,7,8,9-HpCDF	ND	1000	83.0	94.6		82.0	91.9		1.21	
OCDF	4.91	2000	199	111		203	111		1.99	

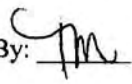
Client Information

Project ID: SSFL 225106
 Sample ID: HZBS0073S001

Solids: 96.14 %
 Sample amount: 12.37 g
 MS amount: 11.85 g
 MSD amount: 11.66 g

Laboratory Information

Project ID: G341-567
 Sample ID: G341-567-7B
 MS ID: G341-567-8B
 MSD ID: G341-567-9B

Reviewed By: 

Method 1613
HZBS0073S001 MS
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	17.3	0.225	0.878	31:26	0.77	
1,2,3,7,8-PeCDD	84.4	0.317	4.39	34:15	1.58	
1,2,3,4,7,8-HxCDD	86.2	0.475	4.39	36:54	1.25	
1,2,3,6,7,8-HxCDD	83.5	0.463	4.39	36:59	1.27	
1,2,3,7,8,9-HxCDD	84.2	0.471	4.39	37:14	1.25	
1,2,3,4,6,7,8-HpCDD	94.2	0.813	4.39	40:25	1.05	
OCDD	296	1.72	8.78	44:54	0.90	
2,3,7,8-TCDF	16.6	0.439	0.878	30:49	0.79	
1,2,3,7,8-PeCDF	85.7	0.246	4.39	33:27	1.59	
2,3,4,7,8-PeCDF	86.0	0.263	4.39	34:04	1.56	
1,2,3,4,7,8-HxCDF	86.2	0.593	4.39	36:11	1.24	
1,2,3,6,7,8-HxCDF	87.3	0.553	4.39	36:17	1.25	
2,3,4,6,7,8-HxCDF	86.9	0.606	4.39	36:47	1.26	
1,2,3,7,8,9-HxCDF	86.9	0.793	4.39	37:34	1.24	
1,2,3,4,6,7,8-HpCDF	84.7	0.474	4.39	39:09	1.03	
1,2,3,4,7,8,9-HpCDF	83.0	0.706	4.39	41:06	1.06	
OCDF	199	1.29	8.78	45:11	0.92	

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0073S001 MS	Matrix:	Soil
		Weight / Volume:	11.85 Grams
		Solids / Lipids:	96.1 %
		Original pH :	NA
		Batch ID:	WG17015
<u>Laboratory Information</u>			
Project ID:	G341-567	Filename:	a05mar09b_4-13
Sample ID:	G341-567-8B	Retchk:	a05mar09b_4-1
Collection Date/Time:	24-Feb-09 08:47	Begin ConCal:	a05mar09b_4-1
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	04-Mar-09		
Analysis Date:	7-Mar-09 14:27	Initial Cal:	m1613-100708a

Method 1613
HZBS0073S001 MS
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.66	83.2	31:25	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.77	88.4	34:15	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.60	80.0	36:53	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.84	91.8	36:58	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.63	81.6	40:24	1.05	
¹³ C ₁₂ -OCDD	4.00	2.45	61.2	44:53	0.89	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.68	83.9	30:48	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.75	87.7	33:27	1.58	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.70	84.8	34:04	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.64	81.9	36:10	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.71	85.3	36:16	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.68	83.8	36:47	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.67	83.4	37:33	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.59	79.3	39:08	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.63	81.6	41:05	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.357	89.3	31:26	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:56	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.25	

Client Information		Sample Information	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0073S001 MS	Matrix:	Soil
		Weight / Volume:	11.85 Grams
		Solids / Lipids:	96.1 %
		Original pH :	NA
		Batch ID:	WG17015
Laboratory Information			
Project ID:	G341-567	Filename:	a05mar09b_4-13
Sample ID:	G341-567-8B	Retchk:	a05mar09b_4-1
Collection Date/Time:	24-Feb-09 08:47	Begin ConCal:	a05mar09b_4-1
Receipt Date:	26-Feb-09 9:45	Initial Cal:	m1613-100708a
Extraction Date:	04-Mar-09		
Analysis Date:	07-Mar-09 14:27		
Analyzed by: <u> </u>		Reviewed by: <u> </u>	
Date: <u>03/10/09</u>		Date: <u>03/10/09</u>	

Form Version: [1613_ed]Report

Method 1613
HZBS0073S001 MSD
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	16.6	0.237	0.892	31:26	0.76	
1,2,3,7,8-PeCDD	82.8	0.351	4.46	34:15	1.59	
1,2,3,4,7,8-HxCDD	85.7	0.455	4.46	36:53	1.27	
1,2,3,6,7,8-HxCDD	82.6	0.434	4.46	36:58	1.25	
1,2,3,7,8,9-HxCDD	83.5	0.447	4.46	37:14	1.26	
1,2,3,4,6,7,8-HpCDD	93.5	0.575	4.46	40:23	1.05	
OCDD	301	1.80	8.92	44:50	0.90	
2,3,7,8-TCDF	16.7	0.305	0.892	30:49	0.79	
1,2,3,7,8-PeCDF	84.6	0.268	4.46	33:27	1.57	
2,3,4,7,8-PeCDF	84.1	0.300	4.46	34:04	1.55	
1,2,3,4,7,8-HxCDF	84.9	0.460	4.46	36:11	1.25	
1,2,3,6,7,8-HxCDF	86.0	0.459	4.46	36:17	1.27	
2,3,4,6,7,8-HxCDF	84.8	0.492	4.46	36:47	1.25	
1,2,3,7,8,9-HxCDF	84.9	0.605	4.46	37:33	1.28	
1,2,3,4,6,7,8-HpCDF	82.9	0.409	4.46	39:07	1.05	
1,2,3,4,7,8,9-HpCDF	82.0	0.596	4.46	41:04	1.06	
OCDF	203	1.40	8.92	45:07	0.91	

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0073S001 MSD	Matrix:	Soil
		Weight / Volume:	11.66 Grams
		Solids / Lipids:	96.1 %
		Original pH :	NA
		Batch ID:	WG17015
<u>Laboratory Information</u>			
Project ID:	G341-567	Filename:	a05mar09b_4-14
Sample ID:	G341-567-9B	Retchk:	a05mar09b_4-1
Collection Date/Time:	24-Feb-09 08:47	Begin ConCal:	a05mar09b_4-1
Receipt Date:	26-Feb-09 9:45	Initial Cal:	m1613-100708a
Extraction Date:	04-Mar-09		
Analysis Date:	7-Mar-09 15:15		

Method 1613
HZBS0073S001 MSD
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.70	85.2	31:25	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.81	90.5	34:14	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.70	85.0	36:53	1.25	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.72	86.2	36:58	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.64	82.2	40:22	1.06	
¹³ C ₁₂ -OCDD	4.00	2.46	61.6	44:49	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.66	82.8	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.80	90.2	33:27	1.58	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.76	87.8	34:03	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.68	84.1	36:10	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.66	82.9	36:16	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.68	84.0	36:46	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.66	82.9	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.60	80.0	39:06	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.66	83.2	41:03	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.200	0.354	177	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.26	

Client Information		Sample Information	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0073S001 MSD	Matrix:	Soil
		Weight / Volume:	11.66 Grams
		Solids / Lipids:	96.1 %
		Original pH :	NA
		Batch ID:	WG17015
Laboratory Information			
Project ID:	G341-567	Filename:	a05mar09b_4-14
Sample ID:	G341-567-9B	Retchk:	a05mar09b_4-1
Collection Date/Time:	24-Feb-09 08:47	Begin ConCal:	a05mar09b_4-1
Receipt Date:	26-Feb-09 9:45	Initial Cal:	m1613-100708a
Extraction Date:	04-Mar-09		
Analysis Date:	07-Mar-09 15:15		
Analyzed by: <u> </u>		Reviewed by: <u> </u>	
Date: <u>03/09/09</u>		Date: <u>3/10/09</u>	

Form Version: [1613_ed]Report

Method 1613
HZBS0079S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.669	1.81			
1,2,3,7,8-PeCDD	ND	0.598	9.04			
1,2,3,4,7,8-HxCDD	ND	0.437	9.04			
1,2,3,6,7,8-HxCDD	0.502	0.433	9.04	36:57	1.12	A
1,2,3,7,8,9-HxCDD	0.466	0.437	9.04	37:12	1.06	A
1,2,3,4,6,7,8-HpCDD	7.97	0.771	9.04	40:21	1.00	A
OCDD	111	1.62	18.1	44:45	0.89	
2,3,7,8-TCDF	ND	0.717	1.81			
1,2,3,7,8-PeCDF	ND	0.430	9.04			
2,3,4,7,8-PeCDF	ND	0.423	9.04			
1,2,3,4,7,8-HxCDF	ND	0.384	9.04			
1,2,3,6,7,8-HxCDF	ND	0.353	9.04			
2,3,4,6,7,8-HxCDF	ND	0.378	9.04			
1,2,3,7,8,9-HxCDF	ND	0.494	9.04			
1,2,3,4,6,7,8-HpCDF	1.91	0.457	9.04	39:05	1.02	A
1,2,3,4,7,8,9-HpCDF	ND	0.666	9.04			
OCDF	6.28	1.31	18.1	45:03	0.85	A
Total TCDDs	ND	0.669	1.81			
Total PeCDDs	ND	0.598	9.04			
Total HxCDDs	3.77	0.218	9.04			A
Total HpCDDs	35.3	0.385	9.04			
Total TCDFs	ND	0.717	1.81			
Total PeCDFs	3.09	0.213	9.04			A
Total HxCDFs	3.36	0.199	9.04			A
Total HpCDFs	4.60	0.275	9.04			
WHO-2005 TEQ (ND=0)	0.231					
WHO-2005 TEQ (ND=1/2)	1.92					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0079S001	Matrix:	Soil
		Weight / Volume:	12.61 Grams
		Solids / Lipids:	87.8 %
		Original pH :	NA
		Batch ID:	WG17015
<u>Laboratory Information</u>			
Project ID:	G341-567	Filename:	a05mar09b_5-5
Sample ID:	G341-567-10B	Retchk:	a05mar09b_4-15
Collection Date/Time:	24-Feb-09 09:21	Begin ConCal:	a05mar09b_4-15
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	04-Mar-09		
Analysis Date:	7-Mar-09 20:10	Initial Cal:	m1613-100708a

Method 1613
HZBS0079S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	4	3.26	81.4	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	4	3.46	86.6	34:14	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	4	3.14	78.6	36:51	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	4	3.64	91.0	36:57	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	4	3.27	81.8	40:20	1.05	
¹³ C ₁₂ -OCDD	8.00	4.92	61.5	44:45	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	4	3.17	79.4	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	4	3.52	87.9	33:26	1.57	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	4	3.39	84.7	34:03	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	4	3.39	84.8	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	4	3.30	82.4	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	4	3.32	82.9	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	4	3.34	83.6	37:31	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	4	3.19	79.7	39:04	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	4	3.28	82.1	41:01	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.338	84.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.24	

Client Information		Sample Information	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0079S001	Matrix:	Soil
		Weight / Volume:	12.61 Grams
		Solids / Lipids:	87.8 %
		Original pH :	NA
		Batch ID:	WG17015
Laboratory Information			
Project ID:	G341-567	Filename:	a05mar09b_5-5
Sample ID:	G341-567-10B	Retchk:	a05mar09b_4-15
Collection Date/Time:	24-Feb-09 09:21	Begin ConCal:	a05mar09b_4-15
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	04-Mar-09		
Analysis Date:	07-Mar-09 20:10	Initial Cal:	m1613-100708a
Analyzed by: <u> </u>		Reviewed by: <u> </u>	
Date: <u>03/10/09</u>		Date: <u>03/10/09</u>	

Method 1613
HZBS0089S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.360	0.860			
1,2,3,7,8-PeCDD	ND	0.504	4.30			
1,2,3,4,7,8-HxCDD	ND	0.711	4.30			EMPC
1,2,3,6,7,8-HxCDD	2.11	0.571	4.30	37:01	1.1	A
1,2,3,7,8,9-HxCDD	1.67	0.591	4.30	37:16	1.15	A
1,2,3,4,6,7,8-HpCDD	41.2	1.51	4.30	40:29	1.03	
OCDD	436	2.74	8.60	45:01	0.90	
2,3,7,8-TCDF	0.955	0.558	0.860	30:48	0.68	
1,2,3,7,8-PeCDF	0.416	0.342	4.30	33:28	1.36	A
2,3,4,7,8-PeCDF	0.876	0.358	4.30	34:04	1.56	A
1,2,3,4,7,8-HxCDF	0.721	0.535	4.30	36:13	1.14	A
1,2,3,6,7,8-HxCDF	ND	0.575	4.30			EMPC
2,3,4,6,7,8-HxCDF	ND	0.571	4.30			
1,2,3,7,8,9-HxCDF	ND	0.690	4.30			
1,2,3,4,6,7,8-HpCDF	5.11	0.810	4.30	39:13	0.99	
1,2,3,4,7,8,9-HpCDF	ND	1.07	4.30			
OCDF	9.93	2.40	8.60	45:18	0.87	
Total TCDDs	ND	0.360	0.860			
Total PeCDDs	1.71	0.504	4.30			AQ
Total HxCDDs	17.0	0.589	4.30			
Total HpCDDs	166	1.51	4.30			
Total TCDFs	4.75	0.558	0.860			
Total PeCDFs	7.02	0.350	4.30			
Total HxCDFs	8.39	0.573	4.30			
Total HpCDFs	12.9	0.922	4.30			
WHO-2005 TEQ (ND=0)	1.42					
WHO-2005 TEQ (ND=1/2)	2.55					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0089S001	Matrix:	Soil
		Weight / Volume:	13.02 Grams
		Solids / Lipids:	89.3 %
		Original pH :	NA
		Batch ID:	WG17015
<u>Laboratory Information</u>			
Project ID:	G341-567	Filename:	a05mar09b_5-6
Sample ID:	G341-567-11B	Retchk:	a05mar09b_4-15
Collection Date/Time:	24-Feb-09 10:51	Begin ConCal:	a05mar09b_4-15
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	04-Mar-09		
Analysis Date:	7-Mar-09 20:58	Initial Cal:	m1613-100708a

Method 1613 HZBS0089S001 General Engineering Labs
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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.21	60.5	31:25	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.32	65.8	34:15	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.13	56.3	36:55	1.25	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.23	61.6	37:01	1.25	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.07	53.5	40:28	1.06	
¹³ C ₁₂ -OCDD	4.00	1.56	38.9	44:60	0.89	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.21	60.3	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.32	66.0	33:27	1.58	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.31	65.4	34:04	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.18	58.8	36:12	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.16	57.8	36:18	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.17	58.6	36:49	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.14	56.8	37:35	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.07	53.4	39:12	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.06	53.2	41:09	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.249	62.3	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:16	1.25	

Client Information		Sample Information	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0089S001	Matrix:	Soil
		Weight / Volume:	13.02 Grams
		Solids / Lipids:	89.3 %
		Original pH :	NA
		Batch ID:	WG17015
Laboratory Information			
Project ID:	G341-567	Filename:	a05mar09b_5-6
Sample ID:	G341-567-11B	Retchk:	a05mar09b_4-15
Collection Date/Time:	24-Feb-09 10:51	Begin ConCal:	a05mar09b_4-15
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	04-Mar-09		
Analysis Date:	07-Mar-09 20:58	Initial Cal:	m1613-100708a
Analyzed by: <u> </u>		Reviewed by: <u> </u>	
Date: <u>03/10/09</u>		Date: <u>03/10/09</u>	

Form Version:[1613_ed]Report

TCDF Confirmation - Method 1613
HZBS0089S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	0.920	0.228	0.860	21.06	0.75	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards 13C12-2,3,7,8-TCDF	2	21.05	0.77	

Client Information		Sample Information	
Project Name:	SSFL 225106	Report Basis:	Dry
Sample ID:	HZBS0089S001	Matrix:	Soil
		Weight / Volume:	13.02 g
		Solids / Lipids:	89.3 %
		Original pH :	NA
Laboratory Information		Batch ID:	WG17015
Project ID:	G341-567	Instrument:	
Sample ID:	G341-567-11B	Filename:	c10mar09a-9
Collection Date/Time:	02/24/09 10:51	Retchk:	c10mar09a-2
Receipt Date:	02/26/09 9:45	Begin ConCal:	c10mar09a-1
Extraction Date:	03/04/09		
Analysis Date/Time:	03/10/09 12:30	Initial Cal:	mcf-c042108a

Analyzed by: JW
 Date: 03/10/09

Reviewed by: [Signature]
 Date: 3/10/09

Method 1613
HZBS0090S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.378	0.859			
1,2,3,7,8-PeCDD	ND	0.400	4.29			
1,2,3,4,7,8-HxCDD	ND	0.510	4.29			
1,2,3,6,7,8-HxCDD	ND	0.478	4.29			
1,2,3,7,8,9-HxCDD	ND	0.497	4.29			
1,2,3,4,6,7,8-HpCDD	3.96	0.933	4.29	40:21	1.02	A
OCDD	45.2	2.61	8.59	44:47	0.92	
2,3,7,8-TCDF	ND	0.510	0.859			
1,2,3,7,8-PeCDF	ND	0.283	4.29			
2,3,4,7,8-PeCDF	ND	0.307	4.29			
1,2,3,4,7,8-HxCDF	ND	0.399	4.29			
1,2,3,6,7,8-HxCDF	ND	0.397	4.29			
2,3,4,6,7,8-HxCDF	ND	0.421	4.29			
1,2,3,7,8,9-HxCDF	ND	0.539	4.29			
1,2,3,4,6,7,8-HpCDF	0.649	0.535	4.29	39:06	1.16	A
1,2,3,4,7,8,9-HpCDF	ND	0.771	4.29			
OCDF	2.49	2.32	8.59	45:04	0.95	A
Total TCDDs	ND	0.378	0.859			
Total PeCDDs	ND	0.400	4.29			
Total HxCDDs	0.593	0.495	4.29			A
Total HpCDDs	15.0	0.933	4.29			
Total TCDFs	ND	0.510	0.859			
Total PeCDFs	ND	0.497	4.29			
Total HxCDFs	ND	0.435	4.29			
Total HpCDFs	0.649	0.641	4.29			A
WHO-2005 TEQ (ND=0)	0.0604					
WHO-2005 TEQ (ND=½)	1.32					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0090S001	Matrix:	Soil
		Weight / Volume:	13.03 Grams
		Solids / Lipids:	89.3 %
		Original pH :	NA
		Batch ID:	WG17015
<u>Laboratory Information</u>		Filename:	a05mar09b_5-7
Project ID:	G341-567	Retchk:	a05mar09b_4-15
Sample ID:	G341-567-12B	Begin ConCal:	a05mar09b_4-15
Collection Date/Time:	24-Feb-09 10:09	Initial Cal:	m1613-100708a
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	04-Mar-09		
Analysis Date:	7-Mar-09 21:46		

Method 1613
HZBS0090S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.54	77.2	31:24	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.59	79.5	34:14	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.50	75.1	36:52	1.25	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.59	79.4	36:57	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.49	74.5	40:21	1.07	
¹³ C ₁₂ -OCDD	4.00	2.01	50.3	44:46	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.50	75.0	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.61	80.5	33:26	1.58	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.55	77.5	34:03	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.48	73.9	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.53	76.5	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.53	76.5	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.50	74.8	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.43	71.7	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.49	74.3	41:02	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.333	83.3	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.26	

Client Information		Sample Information	
Project Name:	SSFL 225106	Report Basis:	Dry Weight
Sample ID:	HZBS0090S001	Matrix:	Soil
		Weight / Volume:	13.03 Grams
		Solids / Lipids:	89.3 %
		Original pH :	NA
		Batch ID:	WG17015
Laboratory Information			
Project ID:	G341-567	Filename:	a05mar09b_5-7
Sample ID:	G341-567-12B	Retchk:	a05mar09b_4-15
Collection Date/Time:	24-Feb-09 10:09	Begin ConCal:	a05mar09b_4-15
Receipt Date:	26-Feb-09 9:45		
Extraction Date:	04-Mar-09		
Analysis Date:	07-Mar-09 21:46	Initial Cal:	m1613-100708a
Analyzed by: <u>JWP</u>		Reviewed by: <u>TM</u>	
Date: <u>03/09</u>		Date: <u>03/09</u>	

Form Version: [1613_ed]Report



March 05, 2010

Ms. Elizabeth Wessling
MECx, LLC
3061 West 92nd Ave #10-D
Westminster, Colorado 80031

Re: SSFL
Project Number: 1891614.050104
Project Name: ISRA Sampling, Feb 2009
Work Order: 225170
SDG: 225170

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 26, 2009. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4426.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.050104
Chain of Custody: MWHAL20090225_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170001

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: CNBS0089S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 93.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	2.1	mg/kg		0.106	0.425	0.4	2	MS	PRB	03/06/09 01:29	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.503	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170002

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: CNBS0090S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 93.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	5.2	mg/kg		0.104	0.415	0.4	2	MS	PRB	03/06/09 01:34	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.514	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170003

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: CNBS0091S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 96.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	6.4	mg/kg		0.0997	0.399	0.4	2	MS	PRB	03/06/09 01:40	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.521	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170004 **BASIS:** Dry Weight **DATE COLLECTED** 25-FEB-09
CLIENT ID: CNBS0128S001 **LEVEL:** Low **DATE RECEIVED** 26-FEB-09
MATRIX: SOIL **%SOLIDS:** 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.210	mg/kg	J	0.023	0.23	0.2	2	MS	PRB	03/06/09 01:46	090305-1	845569
7440-50-8	Copper	9.3	mg/kg		0.0459	0.23	0.2	2	MS	PRB	03/06/09 01:46	090305-1	845569
7439-92-1	Lead	16.8	mg/kg		0.115	0.459	0.4	2	MS	PRB	03/06/09 01:46	090305-1	845569
7440-66-6	Zinc	52.6	mg/kg		0.459	2.3	5	2	MS	PRB	03/06/09 01:46	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.503	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170005

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: CNBS0129S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.180	mg/kg	J	0.0217	0.217	0.2	2	MS	PRB	03/06/09 01:52	090305-1	845569
7440-50-8	Copper	8.3	mg/kg		0.0434	0.217	0.2	2	MS	PRB	03/06/09 01:52	090305-1	845569
7439-92-1	Lead	10.8	mg/kg		0.108	0.434	0.4	2	MS	PRB	03/06/09 01:52	090305-1	845569
7440-66-6	Zinc	49.7	mg/kg		0.434	2.17	5	2	MS	PRB	03/06/09 01:52	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.516	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170006 **BASIS:** Dry Weight **DATE COLLECTED** 25-FEB-09
CLIENT ID: CNBS0130S001 **LEVEL:** Low **DATE RECEIVED** 26-FEB-09
MATRIX: SOIL **%SOLIDS:** 90.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.170	mg/kg	J	0.0214	0.214	0.2	2	MS	PRB	03/06/09 01:57	090305-1	845569
7440-50-8	Copper	7.9	mg/kg		0.0427	0.214	0.2	2	MS	PRB	03/06/09 01:57	090305-1	845569
7439-92-1	Lead	12.4	mg/kg		0.107	0.427	0.4	2	MS	PRB	03/06/09 01:57	090305-1	845569
7440-66-6	Zinc	48.2	mg/kg		0.427	2.14	5	2	MS	PRB	03/06/09 01:57	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.519	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170007

BASIS: As Received

DATE COLLECTED 25-FEB-09

CLIENT ID: EBQW2205

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	1.5	ug/L	U	1.5	5	5	1	MS	BAJ	03/03/09 07:03	090302-2	845631
7440-43-9	Cadmium	0.110	ug/L	U	0.11	1	1	1	MS	BAJ	03/03/09 07:03	090302-2	845631
7440-50-8	Copper	0.30	ug/L	U	0.3	1	1	1	MS	BAJ	03/03/09 07:03	090302-2	845631
7439-92-1	Lead	0.50	ug/L	U	0.5	2	2	1	MS	BAJ	03/03/09 07:03	090302-2	845631
7440-66-6	Zinc	2.6	ug/L	U	2.6	10	10	1	MS	BAJ	03/03/09 07:03	090302-2	845631

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845631	845630	SW846 3005A	50	mL	50	mL	02/27/09	CXS3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170008

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0068S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.40	mg/kg		0.0221	0.221	0.2	2	MS	PRB	03/06/09 02:03	090305-1	845569
7439-92-1	Lead	11.7	mg/kg		0.11	0.441	0.4	2	MS	PRB	03/06/09 02:03	090305-1	845569
7440-66-6	Zinc	67.9	mg/kg		0.441	2.21	5	2	MS	PRB	03/06/09 02:03	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.514	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170009

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0069S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 93.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.130	mg/kg	J	0.0213	0.213	0.2	2	MS	PRB	03/06/09 02:09	090305-1	845569
7439-92-1	Lead	6.7	mg/kg		0.106	0.425	0.4	2	MS	PRB	03/06/09 02:09	090305-1	845569
7440-66-6	Zinc	47.9	mg/kg		0.425	2.13	5	2	MS	PRB	03/06/09 02:09	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.502	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170010

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0071S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 90

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.40	mg/kg		0.0219	0.219	0.2	2	MS	PRB	03/06/09 02:49	090305-1	845569
7439-92-1	Lead	9.4	mg/kg		0.109	0.438	0.4	2	MS	PRB	03/06/09 02:49	090305-1	845569
7440-66-6	Zinc	45.6	mg/kg		0.438	2.19	5	2	MS	PRB	03/06/09 02:49	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.508	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170011

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0072S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 90.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.096	mg/kg	J	0.0217	0.217	0.2	2	MS	PRB	03/06/09 02:55	090305-1	845569
7439-92-1	Lead	7.2	mg/kg		0.109	0.435	0.4	2	MS	PRB	03/06/09 02:55	090305-1	845569
7440-66-6	Zinc	54.1	mg/kg		0.435	2.17	5	2	MS	PRB	03/06/09 02:55	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.506	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170012

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0074S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 90.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	8.9	mg/kg		0.109	0.435	0.4	2	MS	PRB	03/06/09 03:01	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.51	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170014

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0076S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 90

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	11.1	mg/kg		0.108	0.432	0.4	2	MS	PRB	03/06/09 03:07	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.516	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170016

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0078S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	53.6	mg/kg		0.11	0.441	0.4	2	MS	PRB	03/06/09 03:13	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.509	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170017

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0080S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	23.2	mg/kg		0.114	0.454	0.4	2	MS	PRB	03/06/09 03:18	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.504	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170019

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0082S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	25.5	mg/kg		0.112	0.446	0.4	2	MS	PRB	03/06/09 03:36	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.514	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170022

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0084S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	15	mg/kg		0.113	0.453	0.4	2	MS	PRB	03/06/09 03:42	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.517	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170023

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0085S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	4	mg/kg		0.323	1.08	0.5	2	MS	PRB	03/06/09 03:47	090305-1	845569
7440-43-9	Cadmium	0.370	mg/kg		0.0216	0.216	0.2	2	MS	PRB	03/06/09 03:47	090305-1	845569
7440-50-8	Copper	26.2	mg/kg		0.0431	0.216	0.2	2	MS	PRB	03/06/09 03:47	090305-1	845569
7439-92-1	Lead	28.9	mg/kg		0.108	0.431	0.4	2	MS	PRB	03/06/09 03:47	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.521	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170024

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0092S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 90

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	2.1	mg/kg		0.327	1.09	0.5	2	MS	PRB	03/06/09 03:53	090305-1	845569
7440-43-9	Cadmium	0.210	mg/kg	J	0.0218	0.218	0.2	2	MS	PRB	03/06/09 03:53	090305-1	845569
7440-50-8	Copper	6.1	mg/kg		0.0437	0.218	0.2	2	MS	PRB	03/06/09 03:53	090305-1	845569
7439-92-1	Lead	21	mg/kg		0.109	0.437	0.4	2	MS	PRB	03/06/09 03:53	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.511	g	50	mL	02/27/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 225170

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 225170026

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0097S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 90.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	13.9	mg/kg		0.11	0.439	0.4	2	MS	PRB	03/06/09 03:59	090305-1	845569

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
845569	845568	SW846 3050B	0.504	g	50	mL	02/27/09	FGA

Subcontract Data

Dioxins

Method 1613
EBQW2206
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	Adj. RL (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.00406	0.00946			
1,2,3,7,8-PeCDD	ND	0.00670	0.0473			
1,2,3,4,7,8-HxCDD	ND	0.00709	0.0473			
1,2,3,6,7,8-HxCDD	ND	0.00663	0.0473			
1,2,3,7,8,9-HxCDD	ND	0.00687	0.0473			
1,2,3,4,6,7,8-HpCDD	ND	0.0147	0.0473			
OCDD	ND	0.0278	0.0946			
2,3,7,8-TCDF	ND	0.00477	0.00946			
1,2,3,7,8-PeCDF	ND	0.00331	0.0473			
2,3,4,7,8-PeCDF	ND	0.00351	0.0473			
1,2,3,4,7,8-HxCDF	ND	0.00553	0.0473			
1,2,3,6,7,8-HxCDF	ND	0.00477	0.0473			
2,3,4,6,7,8-HxCDF	ND	0.00567	0.0473			
1,2,3,7,8,9-HxCDF	ND	0.00763	0.0473			
1,2,3,4,6,7,8-HpCDF	ND	0.00815	0.0473			
1,2,3,4,7,8,9-HpCDF	ND	0.0121	0.0473			
OCDF	ND	0.0242	0.0946			
Total TCDDs	ND	0.00406	0.00946			
Total PeCDDs	ND	0.00670	0.0473			
Total HxCDDs	ND	0.00684	0.0473			
Total HpCDDs	ND	0.0147	0.0473			
Total TCDFs	ND	0.00477	0.00946			
Total PeCDFs	ND	0.00347	0.0473			
Total HxCDFs	ND	0.00580	0.0473			
Total HpCDFs	ND	0.00994	0.0473			
WHO-2005 TEQ (ND=0)	0.000					
WHO-2005 TEQ (ND=½)	0.0172					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Matrix:	Water
Sample ID:	EBQW2206	Weight / Volume:	1057 mL
		Solids / Lipids:	NA %
		Original pH :	7
		Batch ID:	WG17060
<u>Laboratory Information</u>		Filename:	a28mar09a_11-4
Project ID:	G341-574	Retchk:	a28mar09a_10-7
Sample ID:	G341-574-1C	Begin ConCal:	a28mar09a_10-7
Collection Date/Time:	20-Mar-09 11:30	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	30-Mar-09		
Analysis Date:	1-Apr-09 17:06		

Method 1613

EBQW2206

General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.69	84.6	31:24	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.89	94.6	34:14	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.53	76.6	36:52	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.83	91.6	36:57	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.83	91.5	40:22	1.06	
¹³ C ₁₂ -OCDD	4.00	3.33	83.3	44:48	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.85	92.7	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.09	104	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.07	103	34:03	1.62	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.68	84.2	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.93	96.6	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.83	91.3	36:46	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.76	88.0	37:33	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.89	94.5	39:06	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.98	98.8	41:04	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.380	95.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.26	

Client Information

Project Name: SSFL 226636

Sample ID: EBQW2206

Laboratory Information

Project ID: G341-574

Sample ID: G341-574-1C

Collection Date/Time: 20-Mar-09 11:30

Receipt Date: 24-Mar-09 10:10

Extraction Date: 30-Mar-09

Analysis Date: 01-Apr-09 17:06

Analyzed by: Date: 040309**Sample Information**

Matrix: Water

Weight / Volume: 1057 mL

Solids / Lipids: NA %

Original pH: 7

Batch ID: WG17060

Filename: a28mar09a_11-4

Retchk: a28mar09a_10-7

Begin ConCal: a28mar09a_10-7

Initial Cal: m1613-100708a

Reviewed by: Date: 4/3/09

Form Version: [1613_ed1]Report

Method 1613
HZBS0073S002
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.449	0.914			EMPC
1,2,3,7,8-PeCDD	ND	0.605	4.57			
1,2,3,4,7,8-HxCDD	ND	0.854	4.57			
1,2,3,6,7,8-HxCDD	ND	0.749	4.57			
1,2,3,7,8,9-HxCDD	ND	0.780	4.57			
1,2,3,4,6,7,8-HpCDD	11.7	1.42	4.57	40:22	1.06	
OCDD	147	4.74	9.14	44:48	0.91	
2,3,7,8-TCDF	ND	0.536	0.914			A
1,2,3,7,8-PeCDF	ND	0.382	4.57			
2,3,4,7,8-PeCDF	ND	0.378	4.57			
1,2,3,4,7,8-HxCDF	ND	0.566	4.57			
1,2,3,6,7,8-HxCDF	ND	0.538	4.57			
2,3,4,6,7,8-HxCDF	ND	0.577	4.57			
1,2,3,7,8,9-HxCDF	ND	0.814	4.57			
1,2,3,4,6,7,8-HpCDF	2.92	0.775	4.57	39:05	1.04	
1,2,3,4,7,8,9-HpCDF	ND	1.33	4.57			
OCDF	6.92	4.26	9.14	45:05	0.99	
Total TCDDs	ND	0.449	0.914			
Total PeCDDs	ND	0.605	4.57			
Total HxCDDs	1.08	0.777	4.57			
Total HpCDDs	39.3	1.42	4.57			
Total TCDFs	ND	0.536	0.914			
Total PeCDFs	0.514	0.380	4.57			
Total HxCDFs	3.16	0.616	4.57			
Total HpCDFs	8.05	1.02	4.57			
WHO-2005 TEQ (ND=0)	0.192					
WHO-2005 TEQ (ND=1/2)	1.93					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0073S002	Matrix:	Soil
		Weight / Volume:	11.89 Grams
		Solids / Lipids:	92.0 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-4
Sample ID:	G341-574-2C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 14:25	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 4:28	Initial Cal:	m1613-100708a

Method 1613
HZBS0073S002
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.69	84.7	31:24	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.93	96.5	34:14	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.54	77.2	36:51	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.75	87.7	36:57	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.79	89.6	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	2.90	72.6	44:47	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.89	94.6	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.09	104	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.08	104	34:03	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.65	82.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.84	91.9	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.79	89.7	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.76	88.0	37:32	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.86	92.9	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.89	94.4	41:02	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.347	86.8	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.28	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0073S002	Matrix:	Soil
		Weight / Volume:	11.89 Grams
		Solids / Lipids:	92.0 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information		Filename:	a28mar09a_12-4
Project ID:	G341-574	Retchk:	a28mar09a_11-14
Sample ID:	G341-574-2C	Begin ConCal:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 14:25	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 4:28		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

Form Version:[1613_ed]Report

Method 1613
HZBS0079S002
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.394	0.913			
1,2,3,7,8-PeCDD	ND	0.472	4.57			
1,2,3,4,7,8-HxCDD	ND	1.07	4.57			
1,2,3,6,7,8-HxCDD	ND	0.983	4.57			
1,2,3,7,8,9-HxCDD	ND	1.03	4.57			
1,2,3,4,6,7,8-HpCDD	1.18	1.13	4.57	40:22	0.98	A
OCDD	10.2	3.24	9.13	44:48	0.86	
2,3,7,8-TCDF	ND	0.353	0.913			
1,2,3,7,8-PeCDF	ND	0.264	4.57			
2,3,4,7,8-PeCDF	ND	0.273	4.57			
1,2,3,4,7,8-HxCDF	ND	0.591	4.57			
1,2,3,6,7,8-HxCDF	ND	0.533	4.57			
2,3,4,6,7,8-HxCDF	ND	0.603	4.57			
1,2,3,7,8,9-HxCDF	ND	0.896	4.57			
1,2,3,4,6,7,8-HpCDF	ND	0.628	4.57			
1,2,3,4,7,8,9-HpCDF	ND	0.947	4.57			
OCDF	ND	2.42	9.13			
Total TCDDs	ND	0.394	0.913			
Total PeCDDs	ND	0.472	4.57			
Total HxCDDs	ND	1.03	4.57			
Total HpCDDs	3.68	1.13	4.57			A
Total TCDFs	ND	0.353	0.913			
Total PeCDFs	ND	0.295	4.57			
Total HxCDFs	ND	0.643	4.57			
Total HpCDFs	ND	0.771	4.57			
WHO-2005 TEQ (ND=0)	0.0149					
WHO-2005 TEQ (ND=1/2)	1.59					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0079S002	Matrix:	Soil
		Weight / Volume:	11.77 Grams
		Solids / Lipids:	93.0 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-5
Sample ID:	G341-574-3C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 14:15	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 5:16	Initial Cal:	m1613-100708a

Method 1613
HZBS0079S002
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.70	85.2	31:24	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.93	96.6	34:14	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.61	80.4	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.83	91.5	36:57	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.82	91.2	40:22	1.05	
¹³ C ₁₂ -OCDD	4.00	2.98	74.5	44:47	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.89	94.3	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.12	106	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.09	104	34:03	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.73	86.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.95	97.4	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.84	91.8	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.78	89.0	37:32	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.86	92.9	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.94	97.1	41:03	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.358	89.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.28	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0079S002	Matrix:	Soil
		Weight / Volume:	11.77 Grams
		Solids / Lipids:	93.0 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information		Filename:	a28mar09a_12-5
Project ID:	G341-574	Retchk:	a28mar09a_11-14
Sample ID:	G341-574-3C	Begin ConCal:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 14:15	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 5:16		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>JM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

Form Version:[1613_ed]Report

Method 1613
HZBS0098S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.410	0.838			
1,2,3,7,8-PeCDD	ND	0.766	4.19			EMPC
1,2,3,4,7,8-HxCDD	1.00	0.651	4.19	36:52	1.28	A
1,2,3,6,7,8-HxCDD	2.01	0.630	4.19	36:57	1.2	A
1,2,3,7,8,9-HxCDD	2.07	0.642	4.19	37:13	1.29	A
1,2,3,4,6,7,8-HpCDD	78.6	1.37	4.19	40:22	1.04	
OCDD	1120	2.24	8.38	44:47	0.90	
2,3,7,8-TCDF	ND	0.433	0.838			
1,2,3,7,8-PeCDF	ND	0.301	4.19			
2,3,4,7,8-PeCDF	0.384	0.300	4.19	34:03	1.4	A
1,2,3,4,7,8-HxCDF	0.511	0.447	4.19	36:09	1.22	A
1,2,3,6,7,8-HxCDF	ND	0.431	4.19			
2,3,4,6,7,8-HxCDF	0.457	0.441	4.19	36:45	1.20	A
1,2,3,7,8,9-HxCDF	ND	0.621	4.19			
1,2,3,4,6,7,8-HpCDF	11.2	0.731	4.19	39:05	1.10	
1,2,3,4,7,8,9-HpCDF	ND	1.15	4.19			
OCDF	68.8	1.78	8.38	45:05	0.91	
Total TCDDs	ND	0.410	0.838			
Total PeCDDs	ND	0.508	4.19			
Total HxCDDs	18.6	0.639	4.19			
Total HpCDDs	308	1.37	4.19			
Total TCDFs	ND	0.433	0.838			
Total PeCDFs	2.31	0.300	4.19			A
Total HxCDFs	8.64	0.480	4.19			
Total HpCDFs	37.3	0.921	4.19			
WHO-2005 TEQ (ND=0)	1.97					
WHO-2005 TEQ (ND=1/2)	3.32					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0098S001	Matrix:	Soil
		Weight / Volume:	12.24 Grams
		Solids / Lipids:	97.5 %
		Original pH :	NA
		Batch ID:	WG17059
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-13
Sample ID:	G341-574-4D	Retchk:	a28mar09a_12-14
Collection Date/Time:	20-Mar-09 08:05	Begin ConCal:	a28mar09a_12-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	29-Mar-09		
Analysis Date:	2-Apr-09 11:43	Initial Cal:	m1613-100708a

Method 1613
HZBS0098S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.70	85.0	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.96	97.9	34:13	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.46	72.9	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.90	95.0	36:56	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.88	94.2	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	3.52	88.1	44:46	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.92	96.1	30:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.13	106	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.12	106	34:02	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.77	88.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.90	95.2	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.85	92.7	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.85	92.4	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.91	95.7	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	2.02	101	41:02	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.366	91.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.26	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0098S001	Matrix:	Soil
		Weight / Volume:	12.24 Grams
		Solids / Lipids:	97.5 %
		Original pH :	NA
		Batch ID:	WG17059
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-13
Sample ID:	G341-574-4D	Retchk:	a28mar09a_12-14
Collection Date/Time:	20-Mar-09 08:05	Begin ConCal:	a28mar09a_12-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	29-Mar-09		
Analysis Date:	02-Apr-09 11:43	Initial Cal:	m1613-100708a
Analyzed by:	<u>OS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

Form Version: [1613_ed]Report

Method 1613
HZBS0098S002
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.389	0.867			
1,2,3,7,8-PeCDD	ND	0.419	4.34			
1,2,3,4,7,8-HxCDD	ND	0.543	4.34			
1,2,3,6,7,8-HxCDD	ND	0.513	4.34			
1,2,3,7,8,9-HxCDD	ND	0.530	4.34			
1,2,3,4,6,7,8-HpCDD	4.55	1.03	4.34	40:22	1.11	
OCDD	46.6	2.77	8.67	44:48	0.87	
2,3,7,8-TCDF	ND	0.399	0.867			
1,2,3,7,8-PeCDF	ND	0.266	4.34			
2,3,4,7,8-PeCDF	ND	0.266	4.34			
1,2,3,4,7,8-HxCDF	ND	0.397	4.34			
1,2,3,6,7,8-HxCDF	ND	0.361	4.34			
2,3,4,6,7,8-HxCDF	ND	0.387	4.34			
1,2,3,7,8,9-HxCDF	ND	0.546	4.34			
1,2,3,4,6,7,8-HpCDF	0.807	0.683	4.34	39:05	1.00	A
1,2,3,4,7,8,9-HpCDF	ND	0.974	4.34			
OCDF	3.89	2.33	8.67	45:06	0.85	A
Total TCDDs	ND	0.389	0.867			
Total PeCDDs	ND	0.419	4.34			
Total HxCDDs	ND	0.528	4.34			
Total HpCDDs	15.7	1.03	4.34			
Total TCDFs	ND	0.399	0.867			
Total PeCDFs	ND	0.294	4.34			
Total HxCDFs	ND	0.417	4.34			
Total HpCDFs	1.61	0.816	4.34			A
WHO-2005 TEQ (ND=0)	0.0687					
WHO-2005 TEQ (ND=1/2)	1.34					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0098S002	Matrix:	Soil
		Weight / Volume:	12.50 Grams
		Solids / Lipids:	92.2 %
		Original pH :	NA
		Batch ID:	WG17059
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_11-8
Sample ID:	G341-574-5C	Retchk:	a28mar09a_10-7
Collection Date/Time:	20-Mar-09 14:00	Begin ConCal:	a28mar09a_10-7
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	29-Mar-09		
Analysis Date:	1-Apr-09 20:19	Initial Cal:	m1613-100708a

Method 1613
HZBS0098S002
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.66	83.0	31:24	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.91	95.4	34:14	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.60	80.1	36:52	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.78	89.2	36:57	1.29	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.83	91.5	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	2.79	69.7	44:47	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.81	90.5	30:47	0.81	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.05	102	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.02	101	34:03	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.69	84.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.86	93.1	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.80	89.9	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.79	89.4	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.83	91.4	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	2.00	100	41:02	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.350	87.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.27	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0098S002	Matrix:	Soil
		Weight / Volume:	12.50 Grams
		Solids / Lipids:	92.2 %
		Original pH :	NA
		Batch ID:	WG17059
Laboratory Information		Filename:	a28mar09a_11-8
Project ID:	G341-574	Retchk:	a28mar09a_10-7
Sample ID:	G341-574-5C	Begin ConCal:	a28mar09a_10-7
Collection Date/Time:	20-Mar-09 14:00	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	29-Mar-09		
Analysis Date:	01-Apr-09 20:19		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>Jm</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

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Method 1613
HZBS0099S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	3.11	0.382	0.853	31:24	0.83	
1,2,3,7,8-PeCDD	14.9	0.732	4.26	34:14	1.57	
1,2,3,4,7,8-HxCDD	26.7	1.55	4.26	36:51	1.29	
1,2,3,6,7,8-HxCDD	76.4	1.47	4.26	36:57	1.29	
1,2,3,7,8,9-HxCDD	50.1	1.52	4.26	37:12	1.30	
1,2,3,4,6,7,8-HpCDD	2730	3.95	4.26	40:20	1.04	E
OCDD	23400	2.23	8.53	44:45	0.90	E
2,3,7,8-TCDF	5.92	1.41	0.853	30:47	0.67	
1,2,3,7,8-PeCDF	14.1	2.00	4.26	33:26	1.64	
2,3,4,7,8-PeCDF	26.5	1.97	4.26	34:03	1.61	
1,2,3,4,7,8-HxCDF	42.9	7.35	4.26	36:09	1.25	
1,2,3,6,7,8-HxCDF	35.8	7.16	4.26	36:15	1.23	
2,3,4,6,7,8-HxCDF	42.2	7.29	4.26	36:45	1.24	
1,2,3,7,8,9-HxCDF	13.7	8.59	4.26	37:32	1.23	
1,2,3,4,6,7,8-HpCDF	587	3.53	4.26	39:04	1.05	
1,2,3,4,7,8,9-HpCDF	35.2	4.96	4.26	41:01	1.06	
OCDF	4000	1.98	8.53	45:02	0.9	E
Total TCDDs	76.2	0.382	0.853			Q
Total PeCDDs	223	0.732	4.26			Q
Total HxCDDs	969	1.51	4.26			
Total HpCDDs	10400	3.95	4.26			
Total TCDFs	174	1.41	0.853			Q DPE
Total PeCDFs	267	1.98	4.26			Q DPE
Total HxCDFs	519	7.57	4.26			DPE
Total HpCDFs	2010	4.18	4.26			
WHO-2005 TEQ (ND=0)	97.5					
WHO-2005 TEQ (ND=1/2)	97.5					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0099S001	Matrix:	Soil
		Weight / Volume:	12.06 Grams
		Solids / Lipids:	97.3 %
		Original pH :	NA
		Batch ID:	WG17051
<u>Laboratory Information</u>		Filename:	a28mar09a-3
Project ID:	G341-574	Retchk:	a28mar09a-1
Sample ID:	G341-574-6B	Begin ConCal:	a28mar09a-1
Collection Date/Time:	20-Mar-09 08:30	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	25-Mar-09		
Analysis Date:	28-Mar-09 12:01		

Method 1613
HZBS0099S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.47	73.3	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.55	77.6	34:14	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.31	65.7	36:51	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.36	68.0	36:56	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.52	75.8	40:19	1.06	
¹³ C ₁₂ -OCDD	4.00	2.40	60.1	44:43	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.59	79.6	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.68	84.2	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.68	84.1	34:03	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.39	69.7	36:08	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.45	72.3	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.44	71.9	36:44	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.55	77.3	37:31	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.43	71.5	39:04	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.55	77.4	41:00	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.295	73.8	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.81	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.27	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0099S001	Matrix:	Soil
		Weight / Volume:	12.06 Grams
		Solids / Lipids:	97.3 %
		Original pH :	NA
		Batch ID:	WG17051
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a-3
Sample ID:	G341-574-6B	Retchk:	a28mar09a-1
Collection Date/Time:	20-Mar-09 08:30	Begin ConCal:	a28mar09a-1
Receipt Date:	24-Mar-09 10:10	Initial Cal:	m1613-100708a
Extraction Date:	25-Mar-09		
Analysis Date:	28-Mar-09 12:01		
Analyzed by: <u>JW</u>		Reviewed by: <u>JM</u>	
Date: <u>040309</u>		Date: <u>4-3-09</u>	

TCDF Confirmation - Method 1613
HZBS0099S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	5.70	0.989	0.852	21.06	0.69	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards 13C12-2,3,7,8-TCDF	2	21.03	0.73	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry
Sample ID:	HZBS0099S001	Matrix:	Soil
		Weight / Volume:	12.06 g
		Solids / Lipids:	97.3 %
		Original pH :	NA
		Batch ID:	WG17051
Laboratory Information		Instrument:	
Project ID:	G341-574	Filename:	c03apr09b-14
Sample ID:	G341-574-6B	Retchk:	c03apr09b-1
Collection Date/Time:	03/20/09 8:30	Begin ConCal:	c03apr09b-2
Receipt Date:	03/24/09 10:10	Initial Cal:	mcf-c042108a
Extraction Date:	03/25/09		
Analysis Date/Time:	04/03/09 15:23		

Analyzed by: SW
 Date: 040309

Reviewed by: TM
 Date: 4/13/09

Method 1613
HZBS0100S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.385	0.924			
1,2,3,7,8-PeCDD	ND	0.545	4.62			
1,2,3,4,7,8-HxCDD	ND	0.851	4.62			
1,2,3,6,7,8-HxCDD	ND	0.792	4.62			
1,2,3,7,8,9-HxCDD	ND	0.823	4.62			
1,2,3,4,6,7,8-HpCDD	8.40	1.40	4.62	40:21	0.95	
OCDD	81.3	3.09	9.24	44:49	0.91	
2,3,7,8-TCDF	0.772	0.516	0.924	30:48	0.79	A
1,2,3,7,8-PeCDF	ND	0.364	4.62			EMPC
2,3,4,7,8-PeCDF	ND	0.807	4.62			
1,2,3,4,7,8-HxCDF	ND	0.562	4.62			
1,2,3,6,7,8-HxCDF	ND	0.544	4.62			
2,3,4,6,7,8-HxCDF	ND	0.564	4.62			
1,2,3,7,8,9-HxCDF	ND	0.794	4.62			
1,2,3,4,6,7,8-HpCDF	2.14	0.689	4.62	39:06	1.05	A
1,2,3,4,7,8,9-HpCDF	ND	1.05	4.62			
OCDF	5.32	2.96	9.24	45:05	0.94	A
Total TCDDs	ND	0.385	0.924			
Total PeCDDs	0.691	0.545	4.62			A
Total HxCDDs	3.97	0.820	4.62			A
Total HpCDDs	32.2	1.40	4.62			
Total TCDFs	5.33	0.516	0.924			DPE
Total PeCDFs	5.98	0.368	4.62			
Total HxCDFs	3.45	0.608	4.62			A
Total HpCDFs	4.29	0.852	4.62			A
WHO-2005 TEQ (ND=0)	0.209					
WHO-2005 TEQ (ND=1/2)	1.89					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0100S001	Matrix:	Soil
		Weight / Volume:	11.51 Grams
		Solids / Lipids:	94.0 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-6
Sample ID:	G341-574-7C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 10:40	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 6:05	Initial Cal:	m1613-100708a

Method 1613
HZBS0100S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.80	90.0	31:24	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.03	101	34:14	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.65	82.5	36:51	1.29	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.93	96.7	36:56	1.29	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.91	95.3	40:21	1.05	
¹³ C ₁₂ -OCDD	4.00	2.77	69.2	44:47	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	2.03	101	30:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.22	111	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.21	110	34:03	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.83	91.4	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	2.01	100	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.92	96.2	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.88	94.1	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.91	95.6	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	2.04	102	41:02	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.378	94.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.27	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0100S001	Matrix:	Soil
		Weight / Volume:	11.51 Grams
		Solids / Lipids:	94.0 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information		Filename:	a28mar09a_12-6
Project ID:	G341-574	Retchk:	a28mar09a_11-14
Sample ID:	G341-574-7C	Begin ConCal:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 10:40	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 6:05		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

Method 1613

HZBS0101S001

General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.503	0.858			
1,2,3,7,8-PeCDD	ND	0.615	4.29			
1,2,3,4,7,8-HxCDD	ND	0.815	4.29			
1,2,3,6,7,8-HxCDD	ND	0.767	4.29			
1,2,3,7,8,9-HxCDD	ND	0.792	4.29			
1,2,3,4,6,7,8-HpCDD	3.22	1.40	4.29	40:22	1.13	A
OCDD	24.9	3.58	8.58	44:48	0.91	
2,3,7,8-TCDF	ND	0.462	0.858			
1,2,3,7,8-PeCDF	0.676	0.355	4.29	33:26	1.50	A
2,3,4,7,8-PeCDF	ND	0.384	4.29			
1,2,3,4,7,8-HxCDF	0.832	0.587	4.29	36:09	1.29	A
1,2,3,6,7,8-HxCDF	0.851	0.478	4.29	36:16	1.36	A
2,3,4,6,7,8-HxCDF	ND	0.583	4.29			
1,2,3,7,8,9-HxCDF	0.923	0.827	4.29	37:33	1.13	A
1,2,3,4,6,7,8-HpCDF	2.09	0.774	4.29	39:06	0.99	A
1,2,3,4,7,8,9-HpCDF	1.19	1.19	4.29	41:03	0.98	A
OCDF	4.94	3.08	8.58	45:05	0.96	A
Total TCDDs	ND	0.503	0.858			
Total PeCDDs	ND	0.615	4.29			
Total HxCDDs	ND	0.789	4.29			
Total HpCDDs	9.90	1.40	4.29			
Total TCDFs	ND	0.462	0.858			
Total PeCDFs	0.676	0.369	4.29			A
Total HxCDFs	2.61	0.607	4.29			A
Total HpCDFs	3.27	0.964	4.29			A
WHO-2005 TEQ (ND=0)	0.355					
WHO-2005 TEQ (ND=1/2)	1.93					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0101S001	Matrix:	Soil
		Weight / Volume:	11.94 Grams
		Solids / Lipids:	97.6 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-7
Sample ID:	G341-574-8C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 10:00	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 6:53	Initial Cal:	m1613-100708a

Method 1613
HZBS0101S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.70	85.2	31:24	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.95	97.4	34:14	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.51	75.3	36:52	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.85	92.6	36:57	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.82	90.9	40:22	1.06	
¹³ C ₁₂ -OCDD	4.00	2.78	69.4	44:48	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.87	93.6	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.13	107	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.08	104	34:03	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.68	84.0	36:09	0.55	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.90	95.1	36:15	0.50	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.82	91.1	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.78	89.1	37:33	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.82	91.1	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.93	96.5	41:03	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.362	90.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.78	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.27	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0101S001	Matrix:	Soil
		Weight / Volume:	11.94 Grams
		Solids / Lipids:	97.6 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-7
Sample ID:	G341-574-8C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 10:00	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 6:53	Initial Cal:	m1613-100708a
Analyzed by:	<u>OS</u>	Reviewed by:	<u>JM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

Form Version: [1613_edt]Report

Method 1613
HZBS0102S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.351	0.850			
1,2,3,7,8-PeCDD	ND	0.479	4.25			
1,2,3,4,7,8-HxCDD	ND	0.613	4.25			
1,2,3,6,7,8-HxCDD	ND	0.584	4.25			
1,2,3,7,8,9-HxCDD	ND	0.601	4.25			
1,2,3,4,6,7,8-HpCDD	5.26	1.71	4.25	40:22	1.08	
OCDD	45.4	2.13	8.50	44:47	0.92	
2,3,7,8-TCDF	ND	0.445	0.850			
1,2,3,7,8-PeCDF	ND	0.291	4.25			
2,3,4,7,8-PeCDF	ND	0.285	4.25			
1,2,3,4,7,8-HxCDF	ND	0.400	4.25			
1,2,3,6,7,8-HxCDF	ND	0.379	4.25			
2,3,4,6,7,8-HxCDF	ND	0.410	4.25			
1,2,3,7,8,9-HxCDF	ND	0.629	4.25			
1,2,3,4,6,7,8-HpCDF	2.19	0.879	4.25	39:05	0.99	A
1,2,3,4,7,8,9-HpCDF	ND	1.25	4.25			
OCDF	4.53	1.61	8.50	45:05	0.92	A
Total TCDDs	ND	0.351	0.850			
Total PeCDDs	ND	0.479	4.25			
Total HxCDDs	0.884	0.598	4.25			A
Total HpCDDs	16.1	1.71	4.25			
Total TCDFs	ND	0.445	0.850			
Total PeCDFs	1.17	0.308	4.25			A
Total HxCDFs	1.03	0.445	4.25			A
Total HpCDFs	3.87	1.05	4.25			A
WHO-2005 TEQ (ND=0)	0.0895					
WHO-2005 TEQ (ND=1/2)	1.43					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0102S001	Matrix:	Soil
		Weight / Volume:	12.22 Grams
		Solids / Lipids:	96.3 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-8
Sample ID:	G341-574-9C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 09:45	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 7:41	Initial Cal:	m1613-100708a

Method 1613
HZBS0102S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.69	84.7	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.94	97.0	34:14	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.81	90.4	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	2.03	101	36:57	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.92	95.8	40:21	1.07	
¹³ C ₁₂ -OCDD	4.00	2.73	68.3	44:47	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.91	95.7	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.13	107	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.10	105	34:03	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.92	95.8	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	2.15	108	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	2.00	99.9	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.91	95.7	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.89	94.4	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	2.05	102	41:02	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.356	89.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.78	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.28	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0102S001	Matrix:	Soil
		Weight / Volume:	12.22 Grams
		Solids / Lipids:	96.3 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-8
Sample ID:	G341-574-9C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 09:45	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 7:41	Initial Cal:	m1613-100708a
Analyzed by: <u>DS</u>		Reviewed by: <u>TM</u>	
Date: <u>4-3-09</u>		Date: <u>4-3-09</u>	

Form Version: [1613_ed1]Report

Method 1613
HZBS0103S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.390	0.922			
1,2,3,7,8-PeCDD	ND	0.580	4.61			
1,2,3,4,7,8-HxCDD	ND	0.835	4.61			
1,2,3,6,7,8-HxCDD	ND	0.816	4.61			
1,2,3,7,8,9-HxCDD	0.899	0.829	4.61	37:12	1.36	A
1,2,3,4,6,7,8-HpCDD	4.86	1.19	4.61	40:21	1.05	
OCDD	34.7	3.03	9.22	44:48	0.91	
2,3,7,8-TCDF	ND	0.488	0.922			
1,2,3,7,8-PeCDF	ND	0.351	4.61			
2,3,4,7,8-PeCDF	0.376	0.341	4.61	34:03	1.33	A
1,2,3,4,7,8-HxCDF	ND	0.460	4.61			
1,2,3,6,7,8-HxCDF	ND	0.463	4.61			
2,3,4,6,7,8-HxCDF	ND	0.492	4.61			
1,2,3,7,8,9-HxCDF	ND	0.685	4.61			
1,2,3,4,6,7,8-HpCDF	1.21	0.708	4.61	39:05	1.00	A
1,2,3,4,7,8,9-HpCDF	ND	1.12	4.61			
OCDF	2.88	2.75	9.22	45:05	0.81	A
Total TCDDs	ND	0.390	0.922			
Total PeCDDs	0.583	0.580	4.61			A
Total HxCDDs	1.94	0.826	4.61			A
Total HpCDDs	16.8	1.19	4.61			
Total TCDFs	0.854	0.488	0.922			A
Total PeCDFs	2.84	0.346	4.61			A
Total HxCDFs	1.23	0.518	4.61			A
Total HpCDFs	2.19	0.895	4.61			A
WHO-2005 TEQ (ND=0)	0.275					
WHO-2005 TEQ (ND=1/2)	1.69					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0103S001	Matrix:	Soil
		Weight / Volume:	12.01 Grams
		Solids / Lipids:	90.3 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-9
Sample ID:	G341-574-10C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 09:20	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 8:30	Initial Cal:	m1613-100708a

Method 1613
HZBS0103S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.79	89.7	31:24	0.81	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.07	103	34:14	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.59	79.6	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.86	92.8	36:56	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.89	94.5	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	3.17	79.3	44:47	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.98	98.9	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.24	112	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.22	111	34:03	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.75	87.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.94	97.1	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.87	93.3	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.82	91.1	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.91	95.7	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	2.01	101	41:02	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.377	94.3	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.27	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0103S001	Matrix:	Soil
		Weight / Volume:	12.01 Grams
		Solids / Lipids:	90.3 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-9
Sample ID:	G341-574-10C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 09:20	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10	Initial Cal:	m1613-100708a
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 8:30		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

Form Version [1613_ed]Report

Method 1613

HZBS0104S001

General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.413	0.869			
1,2,3,7,8-PeCDD	ND	0.584	4.34			EMPC
1,2,3,4,7,8-HxCDD	1.20	0.800	4.34	36:52	1.10	A
1,2,3,6,7,8-HxCDD	2.92	0.795	4.34	36:57	1.26	A
1,2,3,7,8,9-HxCDD	2.75	0.800	4.34	37:13	1.09	A
1,2,3,4,6,7,8-HpCDD	135	1.82	4.34	40:22	1.04	
OCDD	1250	2.71	8.69	44:47	0.90	
2,3,7,8-TCDF	1.32	0.584	0.869	30:48	0.82	
1,2,3,7,8-PeCDF	0.909	0.522	4.34	33:26	1.67	A
2,3,4,7,8-PeCDF	1.44	0.500	4.34	34:03	1.48	A
1,2,3,4,7,8-HxCDF	1.29	0.642	4.34	36:09	1.28	A
1,2,3,6,7,8-HxCDF	1.04	0.622	4.34	36:15	1.23	A
2,3,4,6,7,8-HxCDF	ND	0.863	4.34			EMPC
1,2,3,7,8,9-HxCDF	ND	0.867	4.34			
1,2,3,4,6,7,8-HpCDF	6.38	0.858	4.34	39:05	1.04	
1,2,3,4,7,8,9-HpCDF	ND	1.29	4.34			
OCDF	13.4	2.54	8.69	45:04	0.92	
Total TCDDs	3.71	0.413	0.869			
Total PeCDDs	8.53	0.487	4.34			
Total HxCDDs	36.5	0.797	4.34			
Total HpCDDs	536	1.82	4.34			
Total TCDFs	19.3	0.584	0.869			
Total PeCDFs	17.1	0.511	4.34			
Total HxCDFs	14.1	0.688	4.34			
Total HpCDFs	17.0	1.05	4.34			
WHO-2005 TEQ (ND=0)	3.30					
WHO-2005 TEQ (ND=1/2)	4.49					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0104S001	Matrix:	Soil
		Weight / Volume:	13.59 Grams
		Solids / Lipids:	84.7 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-10
Sample ID:	G341-574-11C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 11:00	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 9:18	Initial Cal:	m1613-100708a

Method 1613
HZBS0104S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.78	89.2	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.05	102	34:13	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.52	75.9	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.99	99.6	36:56	1.29	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.92	95.8	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	3.03	75.7	44:46	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	2.00	100	30:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.20	110	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.21	110	34:02	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.79	89.5	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.96	98.2	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.88	94.0	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.90	95.0	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.92	96.2	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	2.06	103	41:02	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.380	95.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.28	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0104S001	Matrix:	Soil
		Weight / Volume:	13.59 Grams
		Solids / Lipids:	84.7 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-10
Sample ID:	G341-574-11C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 11:00	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10	Initial Cal:	m1613-100708a
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 9:18		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>JM</u>
Date:	<u>4-3-09</u>	Date:	<u>4/3/09</u>

Form Version:[1613_ed1]Report

TCDF Confirmation - Method 1613
HZBS0104S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	1.41	0.213	0.869	21.05	0.73	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards 13C12-2,3,7,8-TCDF	2	21.03	0.76	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry
Sample ID:	HZBS0104S001	Matrix:	Soil
		Weight / Volume:	13.59 g
		Solids / Lipids:	84.7 %
		Original pH :	NA
Laboratory Information		Batch ID:	WG17062
Project ID:	G341-574	Instrument:	
Sample ID:	G341-574-11C	Filename:	c03apr09b-4
Collection Date/Time:	03/20/09 11:00	Retchk:	c03apr09b-2
Receipt Date:	03/24/09 10:10	Begin ConCal:	c03apr09b-1
Extraction Date:	03/31/09		
Analysis Date/Time:	04/03/09 10:59	Initial Cal:	mcf-c042108a

Analyzed by:
 Date: 040309

Reviewed by:
 Date: 4/3/09

Method 1613
CNBS0134S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.550	0.873			
1,2,3,7,8-PeCDD	ND	0.461	4.37			
1,2,3,4,7,8-HxCDD	ND	0.623	4.37			
1,2,3,6,7,8-HxCDD	ND	0.608	4.37			
1,2,3,7,8,9-HxCDD	0.704	0.617	4.37	37:12	1.27	A
1,2,3,4,6,7,8-HpCDD	1.77	1.18	4.37	40:21	0.96	A
OCDD	16.2	2.73	8.73	44:47	0.92	
2,3,7,8-TCDF	ND	0.706	0.873			
1,2,3,7,8-PeCDF	ND	0.293	4.37			
2,3,4,7,8-PeCDF	ND	0.294	4.37			
1,2,3,4,7,8-HxCDF	ND	0.363	4.37			
1,2,3,6,7,8-HxCDF	ND	0.349	4.37			
2,3,4,6,7,8-HxCDF	ND	0.360	4.37			
1,2,3,7,8,9-HxCDF	ND	0.530	4.37			
1,2,3,4,6,7,8-HpCDF	1.20	0.553	4.37	39:05	0.94	A
1,2,3,4,7,8,9-HpCDF	ND	0.806	4.37			
OCDF	2.60	2.05	8.73	45:04	0.83	A
Total TCDDs	ND	0.550	0.873			
Total PeCDDs	ND	0.461	4.37			
Total HxCDDs	0.704	0.614	4.37			A
Total HpCDDs	6.67	1.18	4.37			
Total TCDFs	ND	0.706	0.873			
Total PeCDFs	ND	0.325	4.37			
Total HxCDFs	ND	0.394	4.37			
Total HpCDFs	1.87	0.668	4.37			A
WHO-2005 TEQ (ND=0)	0.106					
WHO-2005 TEQ (ND=1/2)	1.58					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	CNBS0134S001	Matrix:	Soil
		Weight / Volume:	12.18 Grams
		Solids / Lipids:	94.0 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-11
Sample ID:	G341-574-12C	Retchk:	0
Collection Date/Time:	25-Feb-09 14:44	Begin ConCal:	0
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 10:06	Initial Cal:	m1613-100708a

Method 1613
CNBS0134S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.63	81.6	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.88	94.0	34:13	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.42	70.8	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.88	94.1	36:56	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.76	87.8	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	2.67	66.7	44:47	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.85	92.5	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.05	103	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.02	101	34:02	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.69	84.5	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.85	92.6	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.80	90.1	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.74	86.8	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.75	87.5	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.88	93.8	41:02	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.344	86.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.26	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	CNBS0134S001	Matrix:	Soil
		Weight / Volume:	12.18 Grams
		Solids / Lipids:	94.0 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information		Filename:	a28mar09a_12-11
Project ID:	G341-574	Retchk:	0
Sample ID:	G341-574-12C	Begin ConCal:	0
Collection Date/Time:	25-Feb-09 14:44	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 10:06		
Analyzed by: <u> </u>		Reviewed by: <u>WNL for TM</u>	
Date: <u>04/09</u>		Date: <u>5/4/09</u>	

Form Version: [1613_ed1]Report

Method 1613 CNBS0128S001 General Engineering Labs
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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.456	0.900			
1,2,3,7,8-PeCDD	ND	0.588	4.50			
1,2,3,4,7,8-HxCDD	ND	0.732	4.50			
1,2,3,6,7,8-HxCDD	ND	0.717	4.50			
1,2,3,7,8,9-HxCDD	ND	0.728	4.50			
1,2,3,4,6,7,8-HpCDD	9.69	1.41	4.50	40:22	1.06	
OCDD	69.5	3.30	9.00	44:48	0.89	
2,3,7,8-TCDF	0.934	0.514	0.900	30:48	0.82	
1,2,3,7,8-PeCDF	ND	0.470	4.50			
2,3,4,7,8-PeCDF	0.927	0.471	4.50	34:03	1.65	A
1,2,3,4,7,8-HxCDF	0.628	0.570	4.50	36:09	1.11	A
1,2,3,6,7,8-HxCDF	0.582	0.558	4.50	36:15	1.37	A
2,3,4,6,7,8-HxCDF	0.614	0.587	4.50	36:45	1.19	A
1,2,3,7,8,9-HxCDF	ND	0.819	4.50			
1,2,3,4,6,7,8-HpCDF	2.74	0.724	4.50	39:05	1.05	A
1,2,3,4,7,8,9-HpCDF	ND	1.08	4.50			
OCDF	5.65	2.75	9.00	45:05	0.86	A
Total TCDDs	ND	0.456	0.900			
Total PeCDDs	ND	0.588	4.50			
Total HxCDDs	3.97	0.725	4.50			A
Total HpCDDs	33.4	1.41	4.50			
Total TCDFs	8.35	0.514	0.900			
Total PeCDFs	9.09	0.471	4.50			
Total HxCDFs	5.69	0.626	4.50			
Total HpCDFs	5.03	0.883	4.50			
WHO-2005 TEQ (ND=0)	0.701					
WHO-2005 TEQ (ND=1/2)	2.07					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	CNBS0128S001	Matrix:	Soil
		Weight / Volume:	12.83 Grams
		Solids / Lipids:	86.6 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-12
Sample ID:	G341-574-13C	Retchk:	a28mar09a_11-14
Collection Date/Time:	25-Feb-09 14:00	Begin ConCal:	a28mar09a_11-14
Receipt Date:	27-Feb-09 11:40		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 10:55	Initial Cal:	m1613-100708a

Method 1613

CNBS0128S001

General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.72	86.1	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.01	100	34:14	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.62	81.0	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.76	87.8	36:57	1.29	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.85	92.6	40:21	1.07	
¹³ C ₁₂ -OCDD	4.00	3.05	76.2	44:47	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.96	97.8	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.17	109	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.15	107	34:03	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.74	86.9	36:09	0.53	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.89	94.6	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.84	92.0	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.81	90.4	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.88	94.2	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.98	98.8	41:02	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.368	92.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.27	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	CNBS0128S001	Matrix:	Soil
		Weight / Volume:	12.83 Grams
		Solids / Lipids:	86.6 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-12
Sample ID:	G341-574-13C	Retchk:	a28mar09a_11-14
Collection Date/Time:	25-Feb-09 14:00	Begin ConCal:	a28mar09a_11-14
Receipt Date:	27-Feb-09 11:40		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 10:55	Initial Cal:	m1613-100708a
Analyzed by: <u>aw</u>		Reviewed by: <u>pm</u>	
Date: <u>24-3-09</u>		Date: <u>4-3-09</u>	

Form Version:[1613_ed]Report

TCDF Confirmation - Method 1613
CNBS0128S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	0.967	0.199	0.900	21.05	0.76	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards 13C12-2,3,7,8-TCDF	2	21.03	0.77	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry
Sample ID:	CNBS0128S001	Matrix:	Soil
		Weight / Volume:	12.83 g
		Solids / Lipids:	86.6 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information		Instrument:	
Project ID:	G341-574	Filename:	c03apr09b-5
Sample ID:	G341-574-13C	Retchk:	c03apr09b-2
Collection Date/Time:	02/25/09 14:00	Begin ConCal:	c03apr09b-1
Receipt Date:	02/27/09 11:40	Initial Cal:	mcf-c042108a
Extraction Date:	03/31/09		
Analysis Date/Time:	04/03/09 11:25		

Analyzed by: SW
 Date: 4/3/09

Reviewed by: TM
 Date: 4-3-09

Method 1613
HZBS0077S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.427	0.910			
1,2,3,7,8-PeCDD	ND	0.619	4.55			
1,2,3,4,7,8-HxCDD	ND	0.964	4.55			EMPC
1,2,3,6,7,8-HxCDD	ND	0.713	4.55			
1,2,3,7,8,9-HxCDD	0.853	0.732	4.55	37:13	1.32	A
1,2,3,4,6,7,8-HpCDD	5.65	1.27	4.55	40:22	1.07	
OCDD	43.7	3.69	9.10	44:49	0.88	
2,3,7,8-TCDF	0.682	0.451	0.910	30:48	0.82	A
1,2,3,7,8-PeCDF	ND	0.326	4.55			
2,3,4,7,8-PeCDF	0.373	0.328	4.55	34:04	1.47	A
1,2,3,4,7,8-HxCDF	ND	0.513	4.55			
1,2,3,6,7,8-HxCDF	ND	0.480	4.55			
2,3,4,6,7,8-HxCDF	ND	0.527	4.55			
1,2,3,7,8,9-HxCDF	ND	0.737	4.55			
1,2,3,4,6,7,8-HpCDF	1.46	0.725	4.55	39:06	0.99	A
1,2,3,4,7,8,9-HpCDF	ND	1.10	4.55			
OCDF	4.44	3.01	9.10	45:06	0.97	A
Total TCDDs	ND	0.427	0.910			
Total PeCDDs	ND	0.619	4.55			
Total HxCDDs	3.42	0.729	4.55			A
Total HpCDDs	20.4	1.27	4.55			
Total TCDFs	2.53	0.451	0.910			
Total PeCDFs	2.06	0.327	4.55			A
Total HxCDFs	2.12	0.556	4.55			A
Total HpCDFs	3.25	0.890	4.55			A
WHO-2005 TEQ (ND=0)	0.351					
WHO-2005 TEQ (ND=1/2)	1.81					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0077S001	Matrix:	Soil
		Weight / Volume:	12.93 Grams
		Solids / Lipids:	85.0 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_14-3
Sample ID:	G341-574-14C	Retchk:	a28mar09a_14-1
Collection Date/Time:	25-Feb-09 10:16	Begin ConCal:	a28mar09a_14-1
Receipt Date:	27-Feb-09 11:40		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 18:32	Initial Cal:	m1613-100708a

Method 1613
HZBS0077S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.68	83.8	31:24	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.82	91.1	34:14	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.43	71.5	36:51	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.86	93.0	36:57	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.70	85.1	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	2.51	62.8	44:48	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.84	92.1	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.99	99.6	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.96	97.9	34:03	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.65	82.5	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.80	90.0	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.76	88.0	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.70	85.1	37:33	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.77	88.3	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.82	91.2	41:03	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.351	87.8	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.26	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0077S001	Matrix:	Soil
		Weight / Volume:	12.93 Grams
		Solids / Lipids:	85.0 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_14-3
Sample ID:	G341-574-14C	Retchk:	a28mar09a_14-1
Collection Date/Time:	25-Feb-09 10:16	Begin ConCal:	a28mar09a_14-1
Receipt Date:	27-Feb-09 11:40	Initial Cal:	m1613-100708a
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 18:32		
Analyzed by:	<u>JW</u>	Reviewed by:	<u>JM</u>
Date:	<u>04-30-09</u>	Date:	<u>4-3-09</u>

Method 1613
HZBS0083S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.445	0.944			
1,2,3,7,8-PeCDD	ND	0.613	4.72			
1,2,3,4,7,8-HxCDD	ND	0.781	4.72			
1,2,3,6,7,8-HxCDD	2.69	0.726	4.72	36:57	1.2	A
1,2,3,7,8,9-HxCDD	2.76	0.753	4.72	37:13	1.23	A
1,2,3,4,6,7,8-HpCDD	8.03	1.41	4.72	40:22	1.08	
OCDD	65.1	3.72	9.44	44:48	0.86	
2,3,7,8-TCDF	0.684	0.435	0.944	30:48	0.7	A
1,2,3,7,8-PeCDF	ND	0.353	4.72			
2,3,4,7,8-PeCDF	ND	0.740	4.72			EMPC
1,2,3,4,7,8-HxCDF	ND	0.500	4.72			
1,2,3,6,7,8-HxCDF	0.612	0.458	4.72	36:15	1.35	A
2,3,4,6,7,8-HxCDF	0.585	0.519	4.72	36:46	1.21	A
1,2,3,7,8,9-HxCDF	ND	0.711	4.72			
1,2,3,4,6,7,8-HpCDF	2.94	0.758	4.72	39:06	1.03	A
1,2,3,4,7,8,9-HpCDF	ND	1.15	4.72			
OCDF	7.18	2.96	9.44	45:06	0.84	A
Total TCDDs	ND	0.445	0.944			
Total PeCDDs	ND	0.613	4.72			
Total HxCDDs	8.59	0.750	4.72			
Total HpCDDs	28.6	1.41	4.72			
Total TCDFs	4.32	0.435	0.944			
Total PeCDFs	5.97	0.351	4.72			
Total HxCDFs	6.03	0.538	4.72			
Total HpCDFs	5.44	0.933	4.72			
WHO-2005 TEQ (ND=0)	0.864					
WHO-2005 TEQ (ND=½)	2.37					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0083S001	Matrix:	Soil
		Weight / Volume:	11.61 Grams
		Solids / Lipids:	91.2 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_14-4
Sample ID:	G341-574-15C	Retchk:	a28mar09a_14-1
Collection Date/Time:	25-Feb-09 08:51	Begin ConCal:	a28mar09a_14-1
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 19:20	Initial Cal:	m1613-100708a

Method 1613
HZBS0083S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.68	84.2	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.91	95.6	34:14	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.47	73.5	36:51	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.85	92.7	36:57	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.76	87.9	40:22	1.07	
¹³ C ₁₂ -OCDD	4.00	2.69	67.3	44:48	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.87	93.7	30:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.10	105	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.05	103	34:03	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.71	85.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.81	90.7	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.78	88.8	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.71	85.7	37:33	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.78	88.9	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.86	92.8	41:03	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.357	89.3	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.26	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0083S001	Matrix:	Soil
		Weight / Volume:	11.61 Grams
		Solids / Lipids:	91.2 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_14-4
Sample ID:	G341-574-15C	Retchk:	a28mar09a_14-1
Collection Date/Time:	25-Feb-09 08:51	Begin ConCal:	a28mar09a_14-1
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 19:20	Initial Cal:	m1613-100708a
Analyzed by: <u> </u>		Reviewed by: <u> </u>	
Date: <u>040309</u>		Date: <u>4-3-09</u>	

Form Version: [1613_ed1]Report

Method 1613
HZBS0094S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.452	0.924			
1,2,3,7,8-PeCDD	ND	0.559	4.62			
1,2,3,4,7,8-HxCDD	ND	0.780	4.62			
1,2,3,6,7,8-HxCDD	ND	0.731	4.62			
1,2,3,7,8,9-HxCDD	ND	0.755	4.62			
1,2,3,4,6,7,8-HpCDD	4.52	1.39	4.62	40:22	1.04	A
OCDD	37.9	3.40	9.24	44:49	0.86	
2,3,7,8-TCDF	0.924	0.683	0.924	30:48	0.84	
1,2,3,7,8-PeCDF	ND	0.387	4.62			
2,3,4,7,8-PeCDF	0.863	0.418	4.62	34:05	1.53	A
1,2,3,4,7,8-HxCDF	0.837	0.610	4.62	36:10	1.24	A
1,2,3,6,7,8-HxCDF	ND	0.603	4.62			
2,3,4,6,7,8-HxCDF	ND	0.656	4.62			
1,2,3,7,8,9-HxCDF	ND	0.879	4.62			
1,2,3,4,6,7,8-HpCDF	3.94	0.779	4.62	39:06	1.04	A
1,2,3,4,7,8,9-HpCDF	ND	1.18	4.62			
OCDF	5.13	2.77	9.24	45:06	0.94	A
Total TCDDs	ND	0.452	0.924			
Total PeCDDs	ND	0.559	4.62			
Total HxCDDs	ND	0.752	4.62			
Total HpCDDs	16.3	1.39	4.62			
Total TCDFs	0.924	0.683	0.924			A
Total PeCDFs	5.49	0.402	4.62			
Total HxCDFs	3.63	0.678	4.62			A
Total HpCDFs	5.40	0.961	4.62			
WHO-2005 TEQ (ND=0)	0.533					
WHO-2005 TEQ (ND=½)	2.01					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0094S001	Matrix:	Soil
		Weight / Volume:	13.86 Grams
		Solids / Lipids:	78.1 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_14-5
Sample ID:	G341-574-16E	Retchk:	a28mar09a_14-1
Collection Date/Time:	24-Feb-09 12:58	Begin ConCal:	a28mar09a_14-1
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 20:08	Initial Cal:	m1613-100708a

Method 1613
HZBS0094S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.64	82.2	31:24	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.87	93.6	34:14	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.41	70.6	36:52	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.88	94.0	36:57	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.73	86.6	40:22	1.05	
¹³ C ₁₂ -OCDD	4.00	2.83	70.7	44:48	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.82	91.0	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.09	105	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.00	100	34:03	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.63	81.6	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.82	91.0	36:16	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.75	87.5	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.70	85.0	37:33	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.75	87.6	39:06	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.86	93.1	41:03	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.353	88.3	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.26	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0094S001	Matrix:	Soil
		Weight / Volume:	13.86 Grams
		Solids / Lipids:	78.1 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information		Filename:	a28mar09a_14-5
Project ID:	G341-574	Retchk:	a28mar09a_14-1
Sample ID:	G341-574-16E	Begin ConCal:	a28mar09a_14-1
Collection Date/Time:	24-Feb-09 12:58	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 20:08		
Analyzed by: <u> </u>		Reviewed by: <u> </u>	
Date: <u>04-03-09</u>		Date: <u>4-3-09</u>	

Form Version:[1613_ed]Report


TCDF Confirmation - Method 1613
HZBS0094S001
 General Engineering Labs


Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	0.964	0.196	0.924	21.04	0.84	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards 13C12-2,3,7,8-TCDF	2	21.04	0.72	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry
Sample ID:	HZBS0094S001	Matrix:	Soil
		Weight / Volume:	13.86 g
		Solids / Lipids:	78.1 %
		Original pH :	NA
Laboratory Information		Batch ID:	WG17062
Project ID:	G341-574	Instrument:	
Sample ID:	G341-574-16E	Filename:	c03apr09b-6
Collection Date/Time:	02/24/09 12:58	Retchk:	c03apr09b-2
Receipt Date:	03/24/09 10:10	Begin ConCal:	c03apr09b-1
Extraction Date:	03/31/09		
Analysis Date/Time:	04/03/09 11:51	Initial Cal:	mcf-c042108a

Analyzed by: 
 Date: 04/03/09

Reviewed by: 
 Date: 4/3/09



March 05, 2010

Ms. Elizabeth Wessling
MECx, LLC
3061 West 92nd Ave #10-D
Westminster, Colorado 80031

Re: SSFL
Project Number: 1891614.050104
Project Name: ISRA Sampling, Feb 2009
Work Order: 226636
SDG: 226636

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 25, 2009, February 26, 2009 and March 21, 2009. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4426.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.050104

Chain of Custody: MWHAL20090224_00, MWHAL20090225_00 and MWHBM20090320_00

Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 226636

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 226636014

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0077S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	13.9	mg/kg		0.111	0.445	0.4	2	MS	PRB	03/26/09 01:01	090325-1	852991

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
852991	852990	SW846 3050B	0.525	g	50	mL	03/24/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 226636

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 226636016

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0079S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	16.2	mg/kg		0.113	0.451	0.4	2	MS	PRB	03/26/09 01:06	090325-1	852991

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
852991	852990	SW846 3050B	0.5	g	50	mL	03/24/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 226636

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 226636017

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0094S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 79

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	4.7	mg/kg		0.379	1.26	0.5	2	MS	PRB	03/26/09 01:12	090325-1	852991
7440-43-9	Cadmium	0.320	mg/kg		0.0253	0.253	0.2	2	MS	PRB	03/26/09 01:12	090325-1	852991
7440-50-8	Copper	14.8	mg/kg	EN	0.0506	0.253	0.2	2	MS	PRB	03/26/09 01:12	090325-1	852991
7439-92-1	Lead	9.5	mg/kg		0.126	0.506	0.4	2	MS	PRB	03/26/09 01:12	090325-1	852991

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
852991	852990	SW846 3050B	0.5	g	50	mL	03/24/09	FGA

Subcontract Data

Dioxins

Method 1613
EBQW2206
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	Adj. RL (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.00406	0.00946			
1,2,3,7,8-PeCDD	ND	0.00670	0.0473			
1,2,3,4,7,8-HxCDD	ND	0.00709	0.0473			
1,2,3,6,7,8-HxCDD	ND	0.00663	0.0473			
1,2,3,7,8,9-HxCDD	ND	0.00687	0.0473			
1,2,3,4,6,7,8-HpCDD	ND	0.0147	0.0473			
OCDD	ND	0.0278	0.0946			
2,3,7,8-TCDF	ND	0.00477	0.00946			
1,2,3,7,8-PeCDF	ND	0.00331	0.0473			
2,3,4,7,8-PeCDF	ND	0.00351	0.0473			
1,2,3,4,7,8-HxCDF	ND	0.00553	0.0473			
1,2,3,6,7,8-HxCDF	ND	0.00477	0.0473			
2,3,4,6,7,8-HxCDF	ND	0.00567	0.0473			
1,2,3,7,8,9-HxCDF	ND	0.00763	0.0473			
1,2,3,4,6,7,8-HpCDF	ND	0.00815	0.0473			
1,2,3,4,7,8,9-HpCDF	ND	0.0121	0.0473			
OCDF	ND	0.0242	0.0946			
Total TCDDs	ND	0.00406	0.00946			
Total PeCDDs	ND	0.00670	0.0473			
Total HxCDDs	ND	0.00684	0.0473			
Total HpCDDs	ND	0.0147	0.0473			
Total TCDFs	ND	0.00477	0.00946			
Total PeCDFs	ND	0.00347	0.0473			
Total HxCDFs	ND	0.00580	0.0473			
Total HpCDFs	ND	0.00994	0.0473			
WHO-2005 TEQ (ND=0)	0.000					
WHO-2005 TEQ (ND=½)	0.0172					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Matrix:	Water
Sample ID:	EBQW2206	Weight / Volume:	1057 mL
		Solids / Lipids:	NA %
		Original pH :	7
		Batch ID:	WG17060
<u>Laboratory Information</u>		Filename:	a28mar09a_11-4
Project ID:	G341-574	Retchk:	a28mar09a_10-7
Sample ID:	G341-574-1C	Begin ConCal:	a28mar09a_10-7
Collection Date/Time:	20-Mar-09 11:30	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	30-Mar-09		
Analysis Date:	1-Apr-09 17:06		

Method 1613

EBQW2206

General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.69	84.6	31:24	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.89	94.6	34:14	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.53	76.6	36:52	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.83	91.6	36:57	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.83	91.5	40:22	1.06	
¹³ C ₁₂ -OCDD	4.00	3.33	83.3	44:48	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.85	92.7	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.09	104	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.07	103	34:03	1.62	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.68	84.2	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.93	96.6	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.83	91.3	36:46	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.76	88.0	37:33	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.89	94.5	39:06	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.98	98.8	41:04	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.380	95.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.26	

Client Information

Project Name: SSFL 226636

Sample ID: EBQW2206

Laboratory Information

Project ID: G341-574

Sample ID: G341-574-1C

Collection Date/Time: 20-Mar-09 11:30

Receipt Date: 24-Mar-09 10:10

Extraction Date: 30-Mar-09

Analysis Date: 01-Apr-09 17:06

Analyzed by: Date: 040309**Sample Information**

Matrix: Water
 Weight / Volume: 1057 mL
 Solids / Lipids: NA %
 Original pH : 7
 Batch ID: WG17060

Filename: a28mar09a_11-4

Retchk: a28mar09a_10-7

Begin ConCal: a28mar09a_10-7

Initial Cal: m1613-100708a

Reviewed by: Date: 4/3/09

Form Version: [1613_ed1]Report

Method 1613
HZBS0073S002
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.449	0.914			EMPC
1,2,3,7,8-PeCDD	ND	0.605	4.57			
1,2,3,4,7,8-HxCDD	ND	0.854	4.57			
1,2,3,6,7,8-HxCDD	ND	0.749	4.57			
1,2,3,7,8,9-HxCDD	ND	0.780	4.57			
1,2,3,4,6,7,8-HpCDD	11.7	1.42	4.57	40:22	1.06	
OCDD	147	4.74	9.14	44:48	0.91	
2,3,7,8-TCDF	ND	0.536	0.914			A
1,2,3,7,8-PeCDF	ND	0.382	4.57			
2,3,4,7,8-PeCDF	ND	0.378	4.57			
1,2,3,4,7,8-HxCDF	ND	0.566	4.57			
1,2,3,6,7,8-HxCDF	ND	0.538	4.57			
2,3,4,6,7,8-HxCDF	ND	0.577	4.57			
1,2,3,7,8,9-HxCDF	ND	0.814	4.57			
1,2,3,4,6,7,8-HpCDF	2.92	0.775	4.57	39:05	1.04	
1,2,3,4,7,8,9-HpCDF	ND	1.33	4.57			
OCDF	6.92	4.26	9.14	45:05	0.99	
Total TCDDs	ND	0.449	0.914			
Total PeCDDs	ND	0.605	4.57			
Total HxCDDs	1.08	0.777	4.57			
Total HpCDDs	39.3	1.42	4.57			
Total TCDFs	ND	0.536	0.914			
Total PeCDFs	0.514	0.380	4.57			
Total HxCDFs	3.16	0.616	4.57			
Total HpCDFs	8.05	1.02	4.57			
WHO-2005 TEQ (ND=0)	0.192					
WHO-2005 TEQ (ND=1/2)	1.93					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0073S002	Matrix:	Soil
		Weight / Volume:	11.89 Grams
		Solids / Lipids:	92.0 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-4
Sample ID:	G341-574-2C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 14:25	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 4:28	Initial Cal:	m1613-100708a

Method 1613
HZBS0073S002
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.69	84.7	31:24	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.93	96.5	34:14	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.54	77.2	36:51	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.75	87.7	36:57	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.79	89.6	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	2.90	72.6	44:47	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.89	94.6	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.09	104	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.08	104	34:03	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.65	82.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.84	91.9	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.79	89.7	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.76	88.0	37:32	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.86	92.9	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.89	94.4	41:02	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.347	86.8	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.28	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0073S002	Matrix:	Soil
		Weight / Volume:	11.89 Grams
		Solids / Lipids:	92.0 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information		Filename:	a28mar09a_12-4
Project ID:	G341-574	Retchk:	a28mar09a_11-14
Sample ID:	G341-574-2C	Begin ConCal:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 14:25	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 4:28		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

Form Version:[1613_ed]Report

Method 1613
HZBS0079S002
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.394	0.913			
1,2,3,7,8-PeCDD	ND	0.472	4.57			
1,2,3,4,7,8-HxCDD	ND	1.07	4.57			
1,2,3,6,7,8-HxCDD	ND	0.983	4.57			
1,2,3,7,8,9-HxCDD	ND	1.03	4.57			
1,2,3,4,6,7,8-HpCDD	1.18	1.13	4.57	40:22	0.98	A
OCDD	10.2	3.24	9.13	44:48	0.86	
2,3,7,8-TCDF	ND	0.353	0.913			
1,2,3,7,8-PeCDF	ND	0.264	4.57			
2,3,4,7,8-PeCDF	ND	0.273	4.57			
1,2,3,4,7,8-HxCDF	ND	0.591	4.57			
1,2,3,6,7,8-HxCDF	ND	0.533	4.57			
2,3,4,6,7,8-HxCDF	ND	0.603	4.57			
1,2,3,7,8,9-HxCDF	ND	0.896	4.57			
1,2,3,4,6,7,8-HpCDF	ND	0.628	4.57			
1,2,3,4,7,8,9-HpCDF	ND	0.947	4.57			
OCDF	ND	2.42	9.13			
Total TCDDs	ND	0.394	0.913			
Total PeCDDs	ND	0.472	4.57			
Total HxCDDs	ND	1.03	4.57			
Total HpCDDs	3.68	1.13	4.57			A
Total TCDFs	ND	0.353	0.913			
Total PeCDFs	ND	0.295	4.57			
Total HxCDFs	ND	0.643	4.57			
Total HpCDFs	ND	0.771	4.57			
WHO-2005 TEQ (ND=0)	0.0149					
WHO-2005 TEQ (ND=1/2)	1.59					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0079S002	Matrix:	Soil
		Weight / Volume:	11.77 Grams
		Solids / Lipids:	93.0 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-5
Sample ID:	G341-574-3C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 14:15	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 5:16	Initial Cal:	m1613-100708a

Method 1613
HZBS0079S002
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.70	85.2	31:24	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.93	96.6	34:14	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.61	80.4	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.83	91.5	36:57	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.82	91.2	40:22	1.05	
¹³ C ₁₂ -OCDD	4.00	2.98	74.5	44:47	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.89	94.3	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.12	106	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.09	104	34:03	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.73	86.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.95	97.4	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.84	91.8	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.78	89.0	37:32	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.86	92.9	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.94	97.1	41:03	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.358	89.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.28	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0079S002	Matrix:	Soil
		Weight / Volume:	11.77 Grams
		Solids / Lipids:	93.0 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-5
Sample ID:	G341-574-3C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 14:15	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10	Initial Cal:	m1613-100708a
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 5:16		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>JM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

Form Version:[1613_ed]Report

Method 1613
HZBS0098S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.410	0.838			
1,2,3,7,8-PeCDD	ND	0.766	4.19			EMPC
1,2,3,4,7,8-HxCDD	1.00	0.651	4.19	36:52	1.28	A
1,2,3,6,7,8-HxCDD	2.01	0.630	4.19	36:57	1.2	A
1,2,3,7,8,9-HxCDD	2.07	0.642	4.19	37:13	1.29	A
1,2,3,4,6,7,8-HpCDD	78.6	1.37	4.19	40:22	1.04	
OCDD	1120	2.24	8.38	44:47	0.90	
2,3,7,8-TCDF	ND	0.433	0.838			
1,2,3,7,8-PeCDF	ND	0.301	4.19			
2,3,4,7,8-PeCDF	0.384	0.300	4.19	34:03	1.4	A
1,2,3,4,7,8-HxCDF	0.511	0.447	4.19	36:09	1.22	A
1,2,3,6,7,8-HxCDF	ND	0.431	4.19			
2,3,4,6,7,8-HxCDF	0.457	0.441	4.19	36:45	1.20	A
1,2,3,7,8,9-HxCDF	ND	0.621	4.19			
1,2,3,4,6,7,8-HpCDF	11.2	0.731	4.19	39:05	1.10	
1,2,3,4,7,8,9-HpCDF	ND	1.15	4.19			
OCDF	68.8	1.78	8.38	45:05	0.91	
Total TCDDs	ND	0.410	0.838			
Total PeCDDs	ND	0.508	4.19			
Total HxCDDs	18.6	0.639	4.19			
Total HpCDDs	308	1.37	4.19			
Total TCDFs	ND	0.433	0.838			
Total PeCDFs	2.31	0.300	4.19			A
Total HxCDFs	8.64	0.480	4.19			
Total HpCDFs	37.3	0.921	4.19			
WHO-2005 TEQ (ND=0)	1.97					
WHO-2005 TEQ (ND=1/2)	3.32					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0098S001	Matrix:	Soil
		Weight / Volume:	12.24 Grams
		Solids / Lipids:	97.5 %
		Original pH :	NA
		Batch ID:	WG17059
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-13
Sample ID:	G341-574-4D	Retchk:	a28mar09a_12-14
Collection Date/Time:	20-Mar-09 08:05	Begin ConCal:	a28mar09a_12-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	29-Mar-09		
Analysis Date:	2-Apr-09 11:43	Initial Cal:	m1613-100708a

Method 1613
HZBS0098S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.70	85.0	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.96	97.9	34:13	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.46	72.9	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.90	95.0	36:56	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.88	94.2	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	3.52	88.1	44:46	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.92	96.1	30:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.13	106	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.12	106	34:02	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.77	88.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.90	95.2	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.85	92.7	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.85	92.4	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.91	95.7	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	2.02	101	41:02	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.366	91.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.26	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0098S001	Matrix:	Soil
		Weight / Volume:	12.24 Grams
		Solids / Lipids:	97.5 %
		Original pH :	NA
		Batch ID:	WG17059
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-13
Sample ID:	G341-574-4D	Retchk:	a28mar09a_12-14
Collection Date/Time:	20-Mar-09 08:05	Begin ConCal:	a28mar09a_12-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	29-Mar-09		
Analysis Date:	02-Apr-09 11:43	Initial Cal:	m1613-100708a
Analyzed by:	<u>OS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

Form Version: [1613_edl]Report

Method 1613
HZBS0098S002
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.389	0.867			
1,2,3,7,8-PeCDD	ND	0.419	4.34			
1,2,3,4,7,8-HxCDD	ND	0.543	4.34			
1,2,3,6,7,8-HxCDD	ND	0.513	4.34			
1,2,3,7,8,9-HxCDD	ND	0.530	4.34			
1,2,3,4,6,7,8-HpCDD	4.55	1.03	4.34	40:22	1.11	
OCDD	46.6	2.77	8.67	44:48	0.87	
2,3,7,8-TCDF	ND	0.399	0.867			
1,2,3,7,8-PeCDF	ND	0.266	4.34			
2,3,4,7,8-PeCDF	ND	0.266	4.34			
1,2,3,4,7,8-HxCDF	ND	0.397	4.34			
1,2,3,6,7,8-HxCDF	ND	0.361	4.34			
2,3,4,6,7,8-HxCDF	ND	0.387	4.34			
1,2,3,7,8,9-HxCDF	ND	0.546	4.34			
1,2,3,4,6,7,8-HpCDF	0.807	0.683	4.34	39:05	1.00	A
1,2,3,4,7,8,9-HpCDF	ND	0.974	4.34			
OCDF	3.89	2.33	8.67	45:06	0.85	A
Total TCDDs	ND	0.389	0.867			
Total PeCDDs	ND	0.419	4.34			
Total HxCDDs	ND	0.528	4.34			
Total HpCDDs	15.7	1.03	4.34			
Total TCDFs	ND	0.399	0.867			
Total PeCDFs	ND	0.294	4.34			
Total HxCDFs	ND	0.417	4.34			
Total HpCDFs	1.61	0.816	4.34			A
WHO-2005 TEQ (ND=0)	0.0687					
WHO-2005 TEQ (ND=1/2)	1.34					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0098S002	Matrix:	Soil
		Weight / Volume:	12.50 Grams
		Solids / Lipids:	92.2 %
		Original pH :	NA
		Batch ID:	WG17059
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_11-8
Sample ID:	G341-574-5C	Retchk:	a28mar09a_10-7
Collection Date/Time:	20-Mar-09 14:00	Begin ConCal:	a28mar09a_10-7
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	29-Mar-09		
Analysis Date:	1-Apr-09 20:19	Initial Cal:	m1613-100708a

Method 1613
HZBS0098S002
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.66	83.0	31:24	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.91	95.4	34:14	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.60	80.1	36:52	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.78	89.2	36:57	1.29	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.83	91.5	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	2.79	69.7	44:47	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.81	90.5	30:47	0.81	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.05	102	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.02	101	34:03	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.69	84.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.86	93.1	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.80	89.9	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.79	89.4	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.83	91.4	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	2.00	100	41:02	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.350	87.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.27	

Client Information

Project Name: SSFL 226636
 Sample ID: HZBS0098S002

Sample Information

Report Basis: Dry Weight
 Matrix: Soil
 Weight / Volume: 12.50 Grams
 Solids / Lipids: 92.2 %
 Original pH: NA
 Batch ID: WG17059

Laboratory Information

Project ID: G341-574
 Sample ID: G341-574-5C
 Collection Date/Time: 20-Mar-09 14:00
 Receipt Date: 24-Mar-09 10:10
 Extraction Date: 29-Mar-09
 Analysis Date: 01-Apr-09 20:19

Filename: a28mar09a_11-8
 Retchk: a28mar09a_10-7
 Begin ConCal: a28mar09a_10-7
 Initial Cal: m1613-100708a

Analyzed by: DS
 Date: 4-3-09

Reviewed by: JM
 Date: 4-3-09

Method 1613
HZBS0099S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	3.11	0.382	0.853	31:24	0.83	
1,2,3,7,8-PeCDD	14.9	0.732	4.26	34:14	1.57	
1,2,3,4,7,8-HxCDD	26.7	1.55	4.26	36:51	1.29	
1,2,3,6,7,8-HxCDD	76.4	1.47	4.26	36:57	1.29	
1,2,3,7,8,9-HxCDD	50.1	1.52	4.26	37:12	1.30	
1,2,3,4,6,7,8-HpCDD	2730	3.95	4.26	40:20	1.04	E
OCDD	23400	2.23	8.53	44:45	0.90	E
2,3,7,8-TCDF	5.92	1.41	0.853	30:47	0.67	
1,2,3,7,8-PeCDF	14.1	2.00	4.26	33:26	1.64	
2,3,4,7,8-PeCDF	26.5	1.97	4.26	34:03	1.61	
1,2,3,4,7,8-HxCDF	42.9	7.35	4.26	36:09	1.25	
1,2,3,6,7,8-HxCDF	35.8	7.16	4.26	36:15	1.23	
2,3,4,6,7,8-HxCDF	42.2	7.29	4.26	36:45	1.24	
1,2,3,7,8,9-HxCDF	13.7	8.59	4.26	37:32	1.23	
1,2,3,4,6,7,8-HpCDF	587	3.53	4.26	39:04	1.05	
1,2,3,4,7,8,9-HpCDF	35.2	4.96	4.26	41:01	1.06	
OCDF	4000	1.98	8.53	45:02	0.9	E
Total TCDDs	76.2	0.382	0.853			Q
Total PeCDDs	223	0.732	4.26			Q
Total HxCDDs	969	1.51	4.26			
Total HpCDDs	10400	3.95	4.26			
Total TCDFs	174	1.41	0.853			Q DPE
Total PeCDFs	267	1.98	4.26			Q DPE
Total HxCDFs	519	7.57	4.26			DPE
Total HpCDFs	2010	4.18	4.26			
WHO-2005 TEQ (ND=0)	97.5					
WHO-2005 TEQ (ND=1/2)	97.5					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0099S001	Matrix:	Soil
		Weight / Volume:	12.06 Grams
		Solids / Lipids:	97.3 %
		Original pH :	NA
		Batch ID:	WG17051
<u>Laboratory Information</u>		Filename:	a28mar09a-3
Project ID:	G341-574	Retchk:	a28mar09a-1
Sample ID:	G341-574-6B	Begin ConCal:	a28mar09a-1
Collection Date/Time:	20-Mar-09 08:30	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	25-Mar-09		
Analysis Date:	28-Mar-09 12:01		

Method 1613
HZBS0099S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.47	73.3	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.55	77.6	34:14	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.31	65.7	36:51	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.36	68.0	36:56	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.52	75.8	40:19	1.06	
¹³ C ₁₂ -OCDD	4.00	2.40	60.1	44:43	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.59	79.6	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.68	84.2	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.68	84.1	34:03	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.39	69.7	36:08	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.45	72.3	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.44	71.9	36:44	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.55	77.3	37:31	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.43	71.5	39:04	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.55	77.4	41:00	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.295	73.8	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.81	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.27	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0099S001	Matrix:	Soil
		Weight / Volume:	12.06 Grams
		Solids / Lipids:	97.3 %
		Original pH :	NA
		Batch ID:	WG17051
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a-3
Sample ID:	G341-574-6B	Retchk:	a28mar09a-1
Collection Date/Time:	20-Mar-09 08:30	Begin ConCal:	a28mar09a-1
Receipt Date:	24-Mar-09 10:10	Initial Cal:	m1613-100708a
Extraction Date:	25-Mar-09		
Analysis Date:	28-Mar-09 12:01		
Analyzed by: <u>JW</u>		Reviewed by: <u>JM</u>	
Date: <u>040309</u>		Date: <u>4-3-09</u>	

TCDF Confirmation - Method 1613
HZBS0099S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	5.70	0.989	0.852	21.06	0.69	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards 13C12-2,3,7,8-TCDF	2	21.03	0.73	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry
Sample ID:	HZBS0099S001	Matrix:	Soil
		Weight / Volume:	12.06 g
		Solids / Lipids:	97.3 %
		Original pH :	NA
		Batch ID:	WG17051
Laboratory Information		Instrument:	
Project ID:	G341-574	Filename:	c03apr09b-14
Sample ID:	G341-574-6B	Retchk:	c03apr09b-1
Collection Date/Time:	03/20/09 8:30	Begin ConCal:	c03apr09b-2
Receipt Date:	03/24/09 10:10	Initial Cal:	mcf-c042108a
Extraction Date:	03/25/09		
Analysis Date/Time:	04/03/09 15:23		

Analyzed by: SW
 Date: 040309

Reviewed by: TM
 Date: 4/13/09

Method 1613
HZBS0100S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.385	0.924			
1,2,3,7,8-PeCDD	ND	0.545	4.62			
1,2,3,4,7,8-HxCDD	ND	0.851	4.62			
1,2,3,6,7,8-HxCDD	ND	0.792	4.62			
1,2,3,7,8,9-HxCDD	ND	0.823	4.62			
1,2,3,4,6,7,8-HpCDD	8.40	1.40	4.62	40:21	0.95	
OCDD	81.3	3.09	9.24	44:49	0.91	
2,3,7,8-TCDF	0.772	0.516	0.924	30:48	0.79	A
1,2,3,7,8-PeCDF	ND	0.364	4.62			EMPC
2,3,4,7,8-PeCDF	ND	0.807	4.62			
1,2,3,4,7,8-HxCDF	ND	0.562	4.62			
1,2,3,6,7,8-HxCDF	ND	0.544	4.62			
2,3,4,6,7,8-HxCDF	ND	0.564	4.62			
1,2,3,7,8,9-HxCDF	ND	0.794	4.62			
1,2,3,4,6,7,8-HpCDF	2.14	0.689	4.62	39:06	1.05	A
1,2,3,4,7,8,9-HpCDF	ND	1.05	4.62			
OCDF	5.32	2.96	9.24	45:05	0.94	A
Total TCDDs	ND	0.385	0.924			
Total PeCDDs	0.691	0.545	4.62			A
Total HxCDDs	3.97	0.820	4.62			A
Total HpCDDs	32.2	1.40	4.62			
Total TCDFs	5.33	0.516	0.924			DPE
Total PeCDFs	5.98	0.368	4.62			
Total HxCDFs	3.45	0.608	4.62			A
Total HpCDFs	4.29	0.852	4.62			A
WHO-2005 TEQ (ND=0)	0.209					
WHO-2005 TEQ (ND=1/2)	1.89					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0100S001	Matrix:	Soil
		Weight / Volume:	11.51 Grams
		Solids / Lipids:	94.0 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-6
Sample ID:	G341-574-7C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 10:40	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 6:05	Initial Cal:	m1613-100708a

Method 1613
HZBS0100S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.80	90.0	31:24	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.03	101	34:14	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.65	82.5	36:51	1.29	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.93	96.7	36:56	1.29	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.91	95.3	40:21	1.05	
¹³ C ₁₂ -OCDD	4.00	2.77	69.2	44:47	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	2.03	101	30:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.22	111	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.21	110	34:03	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.83	91.4	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	2.01	100	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.92	96.2	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.88	94.1	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.91	95.6	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	2.04	102	41:02	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.378	94.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.27	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0100S001	Matrix:	Soil
		Weight / Volume:	11.51 Grams
		Solids / Lipids:	94.0 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information		Filename:	a28mar09a_12-6
Project ID:	G341-574	Retchk:	a28mar09a_11-14
Sample ID:	G341-574-7C	Begin ConCal:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 10:40	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 6:05		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

Method 1613

HZBS0101S001

General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.503	0.858			
1,2,3,7,8-PeCDD	ND	0.615	4.29			
1,2,3,4,7,8-HxCDD	ND	0.815	4.29			
1,2,3,6,7,8-HxCDD	ND	0.767	4.29			
1,2,3,7,8,9-HxCDD	ND	0.792	4.29			
1,2,3,4,6,7,8-HpCDD	3.22	1.40	4.29	40:22	1.13	A
OCDD	24.9	3.58	8.58	44:48	0.91	
2,3,7,8-TCDF	ND	0.462	0.858			
1,2,3,7,8-PeCDF	0.676	0.355	4.29	33:26	1.50	A
2,3,4,7,8-PeCDF	ND	0.384	4.29			
1,2,3,4,7,8-HxCDF	0.832	0.587	4.29	36:09	1.29	A
1,2,3,6,7,8-HxCDF	0.851	0.478	4.29	36:16	1.36	A
2,3,4,6,7,8-HxCDF	ND	0.583	4.29			
1,2,3,7,8,9-HxCDF	0.923	0.827	4.29	37:33	1.13	A
1,2,3,4,6,7,8-HpCDF	2.09	0.774	4.29	39:06	0.99	A
1,2,3,4,7,8,9-HpCDF	1.19	1.19	4.29	41:03	0.98	A
OCDF	4.94	3.08	8.58	45:05	0.96	A
Total TCDDs	ND	0.503	0.858			
Total PeCDDs	ND	0.615	4.29			
Total HxCDDs	ND	0.789	4.29			
Total HpCDDs	9.90	1.40	4.29			
Total TCDFs	ND	0.462	0.858			
Total PeCDFs	0.676	0.369	4.29			A
Total HxCDFs	2.61	0.607	4.29			A
Total HpCDFs	3.27	0.964	4.29			A
WHO-2005 TEQ (ND=0)	0.355					
WHO-2005 TEQ (ND=1/2)	1.93					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0101S001	Matrix:	Soil
		Weight / Volume:	11.94 Grams
		Solids / Lipids:	97.6 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-7
Sample ID:	G341-574-8C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 10:00	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 6:53	Initial Cal:	m1613-100708a

Method 1613
HZBS0101S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.70	85.2	31:24	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.95	97.4	34:14	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.51	75.3	36:52	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.85	92.6	36:57	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.82	90.9	40:22	1.06	
¹³ C ₁₂ -OCDD	4.00	2.78	69.4	44:48	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.87	93.6	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.13	107	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.08	104	34:03	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.68	84.0	36:09	0.55	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.90	95.1	36:15	0.50	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.82	91.1	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.78	89.1	37:33	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.82	91.1	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.93	96.5	41:03	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.362	90.5	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.78	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.27	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0101S001	Matrix:	Soil
		Weight / Volume:	11.94 Grams
		Solids / Lipids:	97.6 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-7
Sample ID:	G341-574-8C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 10:00	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 6:53	Initial Cal:	m1613-100708a
Analyzed by:	<u>OS</u>	Reviewed by:	<u>JM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

Form Version: [1613_edt]Report

Method 1613
HZBS0102S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.351	0.850			
1,2,3,7,8-PeCDD	ND	0.479	4.25			
1,2,3,4,7,8-HxCDD	ND	0.613	4.25			
1,2,3,6,7,8-HxCDD	ND	0.584	4.25			
1,2,3,7,8,9-HxCDD	ND	0.601	4.25			
1,2,3,4,6,7,8-HpCDD	5.26	1.71	4.25	40:22	1.08	
OCDD	45.4	2.13	8.50	44:47	0.92	
2,3,7,8-TCDF	ND	0.445	0.850			
1,2,3,7,8-PeCDF	ND	0.291	4.25			
2,3,4,7,8-PeCDF	ND	0.285	4.25			
1,2,3,4,7,8-HxCDF	ND	0.400	4.25			
1,2,3,6,7,8-HxCDF	ND	0.379	4.25			
2,3,4,6,7,8-HxCDF	ND	0.410	4.25			
1,2,3,7,8,9-HxCDF	ND	0.629	4.25			
1,2,3,4,6,7,8-HpCDF	2.19	0.879	4.25	39:05	0.99	A
1,2,3,4,7,8,9-HpCDF	ND	1.25	4.25			
OCDF	4.53	1.61	8.50	45:05	0.92	A
Total TCDDs	ND	0.351	0.850			
Total PeCDDs	ND	0.479	4.25			
Total HxCDDs	0.884	0.598	4.25			A
Total HpCDDs	16.1	1.71	4.25			
Total TCDFs	ND	0.445	0.850			
Total PeCDFs	1.17	0.308	4.25			A
Total HxCDFs	1.03	0.445	4.25			A
Total HpCDFs	3.87	1.05	4.25			A
WHO-2005 TEQ (ND=0)	0.0895					
WHO-2005 TEQ (ND=1/2)	1.43					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0102S001	Matrix:	Soil
		Weight / Volume:	12.22 Grams
		Solids / Lipids:	96.3 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-8
Sample ID:	G341-574-9C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 09:45	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 7:41	Initial Cal:	m1613-100708a

Method 1613
HZBS0102S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.69	84.7	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.94	97.0	34:14	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.81	90.4	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	2.03	101	36:57	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.92	95.8	40:21	1.07	
¹³ C ₁₂ -OCDD	4.00	2.73	68.3	44:47	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.91	95.7	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.13	107	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.10	105	34:03	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.92	95.8	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	2.15	108	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	2.00	99.9	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.91	95.7	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.89	94.4	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	2.05	102	41:02	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.356	89.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.78	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.28	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0102S001	Matrix:	Soil
		Weight / Volume:	12.22 Grams
		Solids / Lipids:	96.3 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-8
Sample ID:	G341-574-9C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 09:45	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 7:41	Initial Cal:	m1613-100708a
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

Form Version: [1613_ed] Report

Method 1613
HZBS0103S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.390	0.922			
1,2,3,7,8-PeCDD	ND	0.580	4.61			
1,2,3,4,7,8-HxCDD	ND	0.835	4.61			
1,2,3,6,7,8-HxCDD	ND	0.816	4.61			
1,2,3,7,8,9-HxCDD	0.899	0.829	4.61	37:12	1.36	A
1,2,3,4,6,7,8-HpCDD	4.86	1.19	4.61	40:21	1.05	
OCDD	34.7	3.03	9.22	44:48	0.91	
2,3,7,8-TCDF	ND	0.488	0.922			
1,2,3,7,8-PeCDF	ND	0.351	4.61			
2,3,4,7,8-PeCDF	0.376	0.341	4.61	34:03	1.33	A
1,2,3,4,7,8-HxCDF	ND	0.460	4.61			
1,2,3,6,7,8-HxCDF	ND	0.463	4.61			
2,3,4,6,7,8-HxCDF	ND	0.492	4.61			
1,2,3,7,8,9-HxCDF	ND	0.685	4.61			
1,2,3,4,6,7,8-HpCDF	1.21	0.708	4.61	39:05	1.00	A
1,2,3,4,7,8,9-HpCDF	ND	1.12	4.61			
OCDF	2.88	2.75	9.22	45:05	0.81	A
Total TCDDs	ND	0.390	0.922			
Total PeCDDs	0.583	0.580	4.61			A
Total HxCDDs	1.94	0.826	4.61			A
Total HpCDDs	16.8	1.19	4.61			
Total TCDFs	0.854	0.488	0.922			A
Total PeCDFs	2.84	0.346	4.61			A
Total HxCDFs	1.23	0.518	4.61			A
Total HpCDFs	2.19	0.895	4.61			A
WHO-2005 TEQ (ND=0)	0.275					
WHO-2005 TEQ (ND=1/2)	1.69					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0103S001	Matrix:	Soil
		Weight / Volume:	12.01 Grams
		Solids / Lipids:	90.3 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-9
Sample ID:	G341-574-10C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 09:20	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 8:30	Initial Cal:	m1613-100708a

Method 1613
HZBS0103S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.79	89.7	31:24	0.81	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.07	103	34:14	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.59	79.6	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.86	92.8	36:56	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.89	94.5	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	3.17	79.3	44:47	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.98	98.9	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.24	112	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.22	111	34:03	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.75	87.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.94	97.1	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.87	93.3	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.82	91.1	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.91	95.7	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	2.01	101	41:02	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.377	94.3	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.27	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0103S001	Matrix:	Soil
		Weight / Volume:	12.01 Grams
		Solids / Lipids:	90.3 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-9
Sample ID:	G341-574-10C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 09:20	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10	Initial Cal:	m1613-100708a
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 8:30		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-3-09</u>	Date:	<u>4-3-09</u>

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Method 1613
HZBS0104S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.413	0.869			
1,2,3,7,8-PeCDD	ND	0.584	4.34			EMPC
1,2,3,4,7,8-HxCDD	1.20	0.800	4.34	36:52	1.10	A
1,2,3,6,7,8-HxCDD	2.92	0.795	4.34	36:57	1.26	A
1,2,3,7,8,9-HxCDD	2.75	0.800	4.34	37:13	1.09	A
1,2,3,4,6,7,8-HpCDD	135	1.82	4.34	40:22	1.04	
OCDD	1250	2.71	8.69	44:47	0.90	
2,3,7,8-TCDF	1.32	0.584	0.869	30:48	0.82	
1,2,3,7,8-PeCDF	0.909	0.522	4.34	33:26	1.67	A
2,3,4,7,8-PeCDF	1.44	0.500	4.34	34:03	1.48	A
1,2,3,4,7,8-HxCDF	1.29	0.642	4.34	36:09	1.28	A
1,2,3,6,7,8-HxCDF	1.04	0.622	4.34	36:15	1.23	A
2,3,4,6,7,8-HxCDF	ND	0.863	4.34			EMPC
1,2,3,7,8,9-HxCDF	ND	0.867	4.34			
1,2,3,4,6,7,8-HpCDF	6.38	0.858	4.34	39:05	1.04	
1,2,3,4,7,8,9-HpCDF	ND	1.29	4.34			
OCDF	13.4	2.54	8.69	45:04	0.92	
Total TCDDs	3.71	0.413	0.869			
Total PeCDDs	8.53	0.487	4.34			
Total HxCDDs	36.5	0.797	4.34			
Total HpCDDs	536	1.82	4.34			
Total TCDFs	19.3	0.584	0.869			
Total PeCDFs	17.1	0.511	4.34			
Total HxCDFs	14.1	0.688	4.34			
Total HpCDFs	17.0	1.05	4.34			
WHO-2005 TEQ (ND=0)	3.30					
WHO-2005 TEQ (ND=1/2)	4.49					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0104S001	Matrix:	Soil
		Weight / Volume:	13.59 Grams
		Solids / Lipids:	84.7 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-10
Sample ID:	G341-574-11C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 11:00	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 9:18	Initial Cal:	m1613-100708a

Method 1613
HZBS0104S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.78	89.2	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.05	102	34:13	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.52	75.9	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.99	99.6	36:56	1.29	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.92	95.8	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	3.03	75.7	44:46	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	2.00	100	30:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.20	110	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.21	110	34:02	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.79	89.5	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.96	98.2	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.88	94.0	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.90	95.0	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.92	96.2	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	2.06	103	41:02	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.380	95.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.28	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0104S001	Matrix:	Soil
		Weight / Volume:	13.59 Grams
		Solids / Lipids:	84.7 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-10
Sample ID:	G341-574-11C	Retchk:	a28mar09a_11-14
Collection Date/Time:	20-Mar-09 11:00	Begin ConCal:	a28mar09a_11-14
Receipt Date:	24-Mar-09 10:10	Initial Cal:	m1613-100708a
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 9:18		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>JM</u>
Date:	<u>4-3-09</u>	Date:	<u>4/3/09</u>

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TCDF Confirmation - Method 1613
HZBS0104S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	1.41	0.213	0.869	21.05	0.73	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards 13C12-2,3,7,8-TCDF	2	21.03	0.76	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry
Sample ID:	HZBS0104S001	Matrix:	Soil
		Weight / Volume:	13.59 g
		Solids / Lipids:	84.7 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information		Instrument:	
Project ID:	G341-574	Filename:	c03apr09b-4
Sample ID:	G341-574-11C	Retchk:	c03apr09b-2
Collection Date/Time:	03/20/09 11:00	Begin ConCal:	c03apr09b-1
Receipt Date:	03/24/09 10:10	Initial Cal:	mcf-c042108a
Extraction Date:	03/31/09		
Analysis Date/Time:	04/03/09 10:59		

Analyzed by: *ms*
 Date: 040309

Reviewed by: *TM*
 Date: 4/3/09

Method 1613
CNBS0134S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.550	0.873			
1,2,3,7,8-PeCDD	ND	0.461	4.37			
1,2,3,4,7,8-HxCDD	ND	0.623	4.37			
1,2,3,6,7,8-HxCDD	ND	0.608	4.37			
1,2,3,7,8,9-HxCDD	0.704	0.617	4.37	37:12	1.27	A
1,2,3,4,6,7,8-HpCDD	1.77	1.18	4.37	40:21	0.96	A
OCDD	16.2	2.73	8.73	44:47	0.92	
2,3,7,8-TCDF	ND	0.706	0.873			
1,2,3,7,8-PeCDF	ND	0.293	4.37			
2,3,4,7,8-PeCDF	ND	0.294	4.37			
1,2,3,4,7,8-HxCDF	ND	0.363	4.37			
1,2,3,6,7,8-HxCDF	ND	0.349	4.37			
2,3,4,6,7,8-HxCDF	ND	0.360	4.37			
1,2,3,7,8,9-HxCDF	ND	0.530	4.37			
1,2,3,4,6,7,8-HpCDF	1.20	0.553	4.37	39:05	0.94	A
1,2,3,4,7,8,9-HpCDF	ND	0.806	4.37			
OCDF	2.60	2.05	8.73	45:04	0.83	A
Total TCDDs	ND	0.550	0.873			
Total PeCDDs	ND	0.461	4.37			
Total HxCDDs	0.704	0.614	4.37			A
Total HpCDDs	6.67	1.18	4.37			
Total TCDFs	ND	0.706	0.873			
Total PeCDFs	ND	0.325	4.37			
Total HxCDFs	ND	0.394	4.37			
Total HpCDFs	1.87	0.668	4.37			A
WHO-2005 TEQ (ND=0)	0.106					
WHO-2005 TEQ (ND=1/2)	1.58					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	CNBS0134S001	Matrix:	Soil
		Weight / Volume:	12.18 Grams
		Solids / Lipids:	94.0 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>		Filename:	a28mar09a_12-11
Project ID:	G341-574	Retchk:	0
Sample ID:	G341-574-12C	Begin ConCal:	0
Collection Date/Time:	25-Feb-09 14:44	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 10:06		

Method 1613
CNBS0134S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.63	81.6	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.88	94.0	34:13	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.42	70.8	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.88	94.1	36:56	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.76	87.8	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	2.67	66.7	44:47	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.85	92.5	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.05	103	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.02	101	34:02	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.69	84.5	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.85	92.6	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.80	90.1	36:45	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.74	86.8	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.75	87.5	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.88	93.8	41:02	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.344	86.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.26	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	CNBS0134S001	Matrix:	Soil
		Weight / Volume:	12.18 Grams
		Solids / Lipids:	94.0 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information		Filename:	a28mar09a_12-11
Project ID:	G341-574	Retchk:	0
Sample ID:	G341-574-12C	Begin ConCal:	0
Collection Date/Time:	25-Feb-09 14:44	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 10:06		
Analyzed by: <u> </u>		Reviewed by: <u>WNL for TM</u>	
Date: <u>04/09</u>		Date: <u>5/4/09</u>	

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Method 1613 CNBS0128S001 General Engineering Labs
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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.456	0.900			
1,2,3,7,8-PeCDD	ND	0.588	4.50			
1,2,3,4,7,8-HxCDD	ND	0.732	4.50			
1,2,3,6,7,8-HxCDD	ND	0.717	4.50			
1,2,3,7,8,9-HxCDD	ND	0.728	4.50			
1,2,3,4,6,7,8-HpCDD	9.69	1.41	4.50	40:22	1.06	
OCDD	69.5	3.30	9.00	44:48	0.89	
2,3,7,8-TCDF	0.934	0.514	0.900	30:48	0.82	
1,2,3,7,8-PeCDF	ND	0.470	4.50			
2,3,4,7,8-PeCDF	0.927	0.471	4.50	34:03	1.65	A
1,2,3,4,7,8-HxCDF	0.628	0.570	4.50	36:09	1.11	A
1,2,3,6,7,8-HxCDF	0.582	0.558	4.50	36:15	1.37	A
2,3,4,6,7,8-HxCDF	0.614	0.587	4.50	36:45	1.19	A
1,2,3,7,8,9-HxCDF	ND	0.819	4.50			
1,2,3,4,6,7,8-HpCDF	2.74	0.724	4.50	39:05	1.05	A
1,2,3,4,7,8,9-HpCDF	ND	1.08	4.50			
OCDF	5.65	2.75	9.00	45:05	0.86	A
Total TCDDs	ND	0.456	0.900			
Total PeCDDs	ND	0.588	4.50			
Total HxCDDs	3.97	0.725	4.50			A
Total HpCDDs	33.4	1.41	4.50			
Total TCDFs	8.35	0.514	0.900			
Total PeCDFs	9.09	0.471	4.50			
Total HxCDFs	5.69	0.626	4.50			
Total HpCDFs	5.03	0.883	4.50			
WHO-2005 TEQ (ND=0)	0.701					
WHO-2005 TEQ (ND=1/2)	2.07					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	CNBS0128S001	Matrix:	Soil
		Weight / Volume:	12.83 Grams
		Solids / Lipids:	86.6 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_12-12
Sample ID:	G341-574-13C	Retchk:	a28mar09a_11-14
Collection Date/Time:	25-Feb-09 14:00	Begin ConCal:	a28mar09a_11-14
Receipt Date:	27-Feb-09 11:40		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 10:55	Initial Cal:	m1613-100708a

Method 1613
CNBS0128S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.72	86.1	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.01	100	34:14	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.62	81.0	36:51	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.76	87.8	36:57	1.29	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.85	92.6	40:21	1.07	
¹³ C ₁₂ -OCDD	4.00	3.05	76.2	44:47	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.96	97.8	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.17	109	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.15	107	34:03	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.74	86.9	36:09	0.53	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.89	94.6	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.84	92.0	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.81	90.4	37:32	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.88	94.2	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.98	98.8	41:02	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.368	92.0	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:12	1.27	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	CNBS0128S001	Matrix:	Soil
		Weight / Volume:	12.83 Grams
		Solids / Lipids:	86.6 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_12-12
Sample ID:	G341-574-13C	Retchk:	a28mar09a_11-14
Collection Date/Time:	25-Feb-09 14:00	Begin ConCal:	a28mar09a_11-14
Receipt Date:	27-Feb-09 11:40		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 10:55	Initial Cal:	m1613-100708a
Analyzed by: <u>aw</u>		Reviewed by: <u>pm</u>	
Date: <u>24-3-09</u>		Date: <u>4-3-09</u>	

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TCDF Confirmation - Method 1613
CNBS0128S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	0.967	0.199	0.900	21.05	0.76	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards 13C12-2,3,7,8-TCDF	2	21.03	0.77	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry
Sample ID:	CNBS0128S001	Matrix:	Soil
		Weight / Volume:	12.83 g
		Solids / Lipids:	86.6 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information		Instrument:	
Project ID:	G341-574	Filename:	c03apr09b-5
Sample ID:	G341-574-13C	Retchk:	c03apr09b-2
Collection Date/Time:	02/25/09 14:00	Begin ConCal:	c03apr09b-1
Receipt Date:	02/27/09 11:40	Initial Cal:	mcf-c042108a
Extraction Date:	03/31/09		
Analysis Date/Time:	04/03/09 11:25		

Analyzed by: SW
 Date: 4/3/09

Reviewed by: TM
 Date: 4-3-09

Method 1613
HZBS0077S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.427	0.910			
1,2,3,7,8-PeCDD	ND	0.619	4.55			
1,2,3,4,7,8-HxCDD	ND	0.964	4.55			EMPC
1,2,3,6,7,8-HxCDD	ND	0.713	4.55			
1,2,3,7,8,9-HxCDD	0.853	0.732	4.55	37:13	1.32	A
1,2,3,4,6,7,8-HpCDD	5.65	1.27	4.55	40:22	1.07	
OCDD	43.7	3.69	9.10	44:49	0.88	
2,3,7,8-TCDF	0.682	0.451	0.910	30:48	0.82	A
1,2,3,7,8-PeCDF	ND	0.326	4.55			
2,3,4,7,8-PeCDF	0.373	0.328	4.55	34:04	1.47	A
1,2,3,4,7,8-HxCDF	ND	0.513	4.55			
1,2,3,6,7,8-HxCDF	ND	0.480	4.55			
2,3,4,6,7,8-HxCDF	ND	0.527	4.55			
1,2,3,7,8,9-HxCDF	ND	0.737	4.55			
1,2,3,4,6,7,8-HpCDF	1.46	0.725	4.55	39:06	0.99	A
1,2,3,4,7,8,9-HpCDF	ND	1.10	4.55			
OCDF	4.44	3.01	9.10	45:06	0.97	A
Total TCDDs	ND	0.427	0.910			
Total PeCDDs	ND	0.619	4.55			
Total HxCDDs	3.42	0.729	4.55			A
Total HpCDDs	20.4	1.27	4.55			
Total TCDFs	2.53	0.451	0.910			
Total PeCDFs	2.06	0.327	4.55			A
Total HxCDFs	2.12	0.556	4.55			A
Total HpCDFs	3.25	0.890	4.55			A
WHO-2005 TEQ (ND=0)	0.351					
WHO-2005 TEQ (ND=1/2)	1.81					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0077S001	Matrix:	Soil
		Weight / Volume:	12.93 Grams
		Solids / Lipids:	85.0 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_14-3
Sample ID:	G341-574-14C	Retchk:	a28mar09a_14-1
Collection Date/Time:	25-Feb-09 10:16	Begin ConCal:	a28mar09a_14-1
Receipt Date:	27-Feb-09 11:40		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 18:32	Initial Cal:	m1613-100708a

Method 1613
HZBS0077S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.68	83.8	31:24	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.82	91.1	34:14	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.43	71.5	36:51	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.86	93.0	36:57	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.70	85.1	40:21	1.06	
¹³ C ₁₂ -OCDD	4.00	2.51	62.8	44:48	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.84	92.1	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.99	99.6	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.96	97.9	34:03	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.65	82.5	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.80	90.0	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.76	88.0	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.70	85.1	37:33	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.77	88.3	39:05	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.82	91.2	41:03	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.351	87.8	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.26	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0077S001	Matrix:	Soil
		Weight / Volume:	12.93 Grams
		Solids / Lipids:	85.0 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_14-3
Sample ID:	G341-574-14C	Retchk:	a28mar09a_14-1
Collection Date/Time:	25-Feb-09 10:16	Begin ConCal:	a28mar09a_14-1
Receipt Date:	27-Feb-09 11:40	Initial Cal:	m1613-100708a
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 18:32		
Analyzed by:	<u>JW</u>	Reviewed by:	<u>JM</u>
Date:	<u>04-30-09</u>	Date:	<u>4-3-09</u>

Method 1613
HZBS0083S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.445	0.944			
1,2,3,7,8-PeCDD	ND	0.613	4.72			
1,2,3,4,7,8-HxCDD	ND	0.781	4.72			
1,2,3,6,7,8-HxCDD	2.69	0.726	4.72	36:57	1.2	A
1,2,3,7,8,9-HxCDD	2.76	0.753	4.72	37:13	1.23	A
1,2,3,4,6,7,8-HpCDD	8.03	1.41	4.72	40:22	1.08	
OCDD	65.1	3.72	9.44	44:48	0.86	
2,3,7,8-TCDF	0.684	0.435	0.944	30:48	0.7	A
1,2,3,7,8-PeCDF	ND	0.353	4.72			
2,3,4,7,8-PeCDF	ND	0.740	4.72			EMPC
1,2,3,4,7,8-HxCDF	ND	0.500	4.72			
1,2,3,6,7,8-HxCDF	0.612	0.458	4.72	36:15	1.35	A
2,3,4,6,7,8-HxCDF	0.585	0.519	4.72	36:46	1.21	A
1,2,3,7,8,9-HxCDF	ND	0.711	4.72			
1,2,3,4,6,7,8-HpCDF	2.94	0.758	4.72	39:06	1.03	A
1,2,3,4,7,8,9-HpCDF	ND	1.15	4.72			
OCDF	7.18	2.96	9.44	45:06	0.84	A
Total TCDDs	ND	0.445	0.944			
Total PeCDDs	ND	0.613	4.72			
Total HxCDDs	8.59	0.750	4.72			
Total HpCDDs	28.6	1.41	4.72			
Total TCDFs	4.32	0.435	0.944			
Total PeCDFs	5.97	0.351	4.72			
Total HxCDFs	6.03	0.538	4.72			
Total HpCDFs	5.44	0.933	4.72			
WHO-2005 TEQ (ND=0)	0.864					
WHO-2005 TEQ (ND=½)	2.37					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0083S001	Matrix:	Soil
		Weight / Volume:	11.61 Grams
		Solids / Lipids:	91.2 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_14-4
Sample ID:	G341-574-15C	Retchk:	a28mar09a_14-1
Collection Date/Time:	25-Feb-09 08:51	Begin ConCal:	a28mar09a_14-1
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 19:20	Initial Cal:	m1613-100708a

Method 1613
HZBS0083S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.68	84.2	31:24	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.91	95.6	34:14	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.47	73.5	36:51	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.85	92.7	36:57	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.76	87.9	40:22	1.07	
¹³ C ₁₂ -OCDD	4.00	2.69	67.3	44:48	0.91	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.87	93.7	30:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.10	105	33:26	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.05	103	34:03	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.71	85.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.81	90.7	36:15	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.78	88.8	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.71	85.7	37:33	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.78	88.9	39:05	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.86	92.8	41:03	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.357	89.3	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:54	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.26	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0083S001	Matrix:	Soil
		Weight / Volume:	11.61 Grams
		Solids / Lipids:	91.2 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information			
Project ID:	G341-574	Filename:	a28mar09a_14-4
Sample ID:	G341-574-15C	Retchk:	a28mar09a_14-1
Collection Date/Time:	25-Feb-09 08:51	Begin ConCal:	a28mar09a_14-1
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 19:20	Initial Cal:	m1613-100708a
Analyzed by: <u> </u>		Reviewed by: <u> </u>	
Date: <u>040309</u>		Date: <u>4-3-09</u>	

Form Version: [1613_ed1]Report

Method 1613
HZBS0094S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.452	0.924			
1,2,3,7,8-PeCDD	ND	0.559	4.62			
1,2,3,4,7,8-HxCDD	ND	0.780	4.62			
1,2,3,6,7,8-HxCDD	ND	0.731	4.62			
1,2,3,7,8,9-HxCDD	ND	0.755	4.62			
1,2,3,4,6,7,8-HpCDD	4.52	1.39	4.62	40:22	1.04	A
OCDD	37.9	3.40	9.24	44:49	0.86	
2,3,7,8-TCDF	0.924	0.683	0.924	30:48	0.84	
1,2,3,7,8-PeCDF	ND	0.387	4.62			
2,3,4,7,8-PeCDF	0.863	0.418	4.62	34:05	1.53	A
1,2,3,4,7,8-HxCDF	0.837	0.610	4.62	36:10	1.24	A
1,2,3,6,7,8-HxCDF	ND	0.603	4.62			
2,3,4,6,7,8-HxCDF	ND	0.656	4.62			
1,2,3,7,8,9-HxCDF	ND	0.879	4.62			
1,2,3,4,6,7,8-HpCDF	3.94	0.779	4.62	39:06	1.04	A
1,2,3,4,7,8,9-HpCDF	ND	1.18	4.62			
OCDF	5.13	2.77	9.24	45:06	0.94	A
Total TCDDs	ND	0.452	0.924			
Total PeCDDs	ND	0.559	4.62			
Total HxCDDs	ND	0.752	4.62			
Total HpCDDs	16.3	1.39	4.62			
Total TCDFs	0.924	0.683	0.924			A
Total PeCDFs	5.49	0.402	4.62			
Total HxCDFs	3.63	0.678	4.62			A
Total HpCDFs	5.40	0.961	4.62			
WHO-2005 TEQ (ND=0)	0.533					
WHO-2005 TEQ (ND=½)	2.01					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0094S001	Matrix:	Soil
		Weight / Volume:	13.86 Grams
		Solids / Lipids:	78.1 %
		Original pH :	NA
		Batch ID:	WG17062
<u>Laboratory Information</u>			
Project ID:	G341-574	Filename:	a28mar09a_14-5
Sample ID:	G341-574-16E	Retchk:	a28mar09a_14-1
Collection Date/Time:	24-Feb-09 12:58	Begin ConCal:	a28mar09a_14-1
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	2-Apr-09 20:08	Initial Cal:	m1613-100708a

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.64	82.2	31:24	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.87	93.6	34:14	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.41	70.6	36:52	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.88	94.0	36:57	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.73	86.6	40:22	1.05	
¹³ C ₁₂ -OCDD	4.00	2.83	70.7	44:48	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.82	91.0	30:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.09	105	33:26	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.00	100	34:03	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.63	81.6	36:09	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.82	91.0	36:16	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.75	87.5	36:45	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.70	85.0	37:33	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.75	87.6	39:06	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.86	93.1	41:03	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.353	88.3	31:25	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:55	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			37:13	1.26	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry Weight
Sample ID:	HZBS0094S001	Matrix:	Soil
		Weight / Volume:	13.86 Grams
		Solids / Lipids:	78.1 %
		Original pH :	NA
		Batch ID:	WG17062
Laboratory Information		Filename:	a28mar09a_14-5
Project ID:	G341-574	Retchk:	a28mar09a_14-1
Sample ID:	G341-574-16E	Begin ConCal:	a28mar09a_14-1
Collection Date/Time:	24-Feb-09 12:58	Initial Cal:	m1613-100708a
Receipt Date:	24-Mar-09 10:10		
Extraction Date:	31-Mar-09		
Analysis Date:	02-Apr-09 20:08		
Analyzed by: <u>[Signature]</u>		Reviewed by: <u>[Signature]</u>	
Date: <u>04-03-09</u>		Date: <u>4-3-09</u>	

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TCDF Confirmation - Method 1613
HZBS0094S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	0.964	0.196	0.924	21.04	0.84	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards 13C12-2,3,7,8-TCDF	2	21.04	0.72	

Client Information		Sample Information	
Project Name:	SSFL 226636	Report Basis:	Dry
Sample ID:	HZBS0094S001	Matrix:	Soil
		Weight / Volume:	13.86 g
		Solids / Lipids:	78.1 %
		Original pH :	NA
Laboratory Information		Batch ID:	WG17062
Project ID:	G341-574	Instrument:	
Sample ID:	G341-574-16E	Filename:	c03apr09b-6
Collection Date/Time:	02/24/09 12:58	Retchk:	c03apr09b-2
Receipt Date:	03/24/09 10:10	Begin ConCal:	c03apr09b-1
Extraction Date:	03/31/09		
Analysis Date/Time:	04/03/09 11:51	Initial Cal:	mcf-c042108a

Analyzed by: SWP
 Date: 04/03/09

Reviewed by: TM
 Date: 4/3/09