



Client: <u>SSF1</u>		SDG/ARCOC/Work Order: <u>237648 / 237651</u>	
Received By: <u>RMB</u>		Date Received: <u>9/22/09</u>	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		<input checked="" type="checkbox"/>	Maximum Counts Observed*:
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	<u>30cpm</u>
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>	
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>	

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	<input checked="" type="checkbox"/>			Preservation Method: <u>ice bags</u> blue ice dry ice none other (describe) <u>3, 2.</u>
3	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4	Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		<input checked="" type="checkbox"/>		Sample ID's and containers affected:
7	Are Encore containers present?			<input checked="" type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	<input checked="" type="checkbox"/>			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			

Comments:

Fv: 9457 3161 4207
" " 4192

PM (or PMA) review: Initials

JT

Date

9/22/09

Date: 9/22/09

Requesting Firm: MWH
Address: 9444 Farnham Suite 300
San Diego, CA 92123
Phone: 858-751-1217
Fax: 858-751-1201
E-mail: Sean.s.leffler@us.mwhglobal.com

To: Jackie Trudell
Laboratory GEL Laboratories, LLC

Phone: 843-769-7388
E-mail:
Jacqueline.trudell@gel.com

From: Sean Leffler

Requestor signature: 

Subject: Chain-of-Custody Form Analytical Request Change No. of Pages: 2

Per Request:

Please make the changes listed below to the chain-of-custody analytical request form. Include this form with the final deliverables for these samples.

COC No.	Client Sample ID(s)	Date Collected	Originally Requested Analyses	Change (s) and Method (s) Now Requested
MWHAG2 0090921_0 1	HZCW0001AS 001	9/21/09		Cancel PCB analysis

The reason for these changes:

Incorrectly marked on COC form

Lack of sample volume

Change in analytical request

Other:

X

Thank you

2376A8



CHAIN OF CUSTODY RECORD

COC #:

MVHAG20090929_00

Page: 1 of 1

Customer Information		Project Information		Project Information	
Site:	SSFL	Client Name:	Boeing	Collector:	A. Goldenberg
Company:	MWH	Sampling Event:	2009 ISRA Waste Characteriza	Contact #:	
Report to:	Sarah Von Raesfeld	Project Number:	1891614.05462	Requested Analyses	
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl		
	Suite 600	PM Phone #:	(925) 627-4627	Legend: Numerical values for analyses equate to turn around time in days H - Hold EH - Extract/Extrude & Hold	
	Walnut Creek	Field Contact:	Benjamin Stewart		
	CA	Field Contact #:	(818) 266-1378	Note: Values in the cells below are Turn Around Times.	
	94596	Lab Name:	GEL Laboratories, LLC		
Email:	sarah.vonraesfeld@mwglobal.c	Lab Contact:	Jackie Trudell	Comments	
	sean.leffler@mwglobal.com	Lab Address:	2040 Savage Road Charleston, SC 29407		
		Lab Phone:	(843) 769-7388		
Sample Name		Matrix		No. of Containers	
HZCW0001BS001	Water		9/29/2009 13:05	2	
Cyanide by 9012A - Water 1					

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
<i>Alan M. Raesfeld</i>	9-29-09	<i>R.M. Helling</i>	9/30/09				
Company: MWH	Time: 15:40	Company: GEL	Time: 0710	Company:	Time:	Company:	Time:
Comments:							
<input type="checkbox"/> Geotracker EDF <input type="checkbox"/> Data Validation Package							



Client: SSFI		SDG/ARCO/Work Order: 237648	
Received By: RMS		Date Received: 9/30/09	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		<input checked="" type="checkbox"/>	Maximum Counts Observed*:
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	20 pM
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>	
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>	

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?	<input checked="" type="checkbox"/>			Preservation Method: <u>ice bags</u> blue ice dry ice none other (describe) 3C
3	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4	Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?			<input checked="" type="checkbox"/>	Sample ID's and containers affected:
7	Are Encore containers present?			<input checked="" type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	<input checked="" type="checkbox"/>			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			

Comments:

Fx: 9457 3163 8134

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556–8171 – www.gel.com

Certificate of Analysis

Company : MWH Americas, Inc.
Address : 1340 Treat Blvd. Suite 300
Walnut Creek, California 94597

Report Date: September 30, 2009

Contact: Ms. Sarah Von Raesfeld, MWH
Project: **2009 ISRA Waste Characterization Happy
Valley UST**

Client Sample ID:	HZCW0001AS001	Project:	SSFL00164
Sample ID:	237648001	Client ID:	SSFL001
Matrix:	Water		
Collect Date:	21-SEP-09 14:45		
Receive Date:	22-SEP-09		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Electrode Analysis Federal										
<i>pH 9040 "As Received"</i>										
Corrosivity	H	7.97	0.010	0.100	SU	1	LXA1 09/23/09	1019	905338	1
Ion Chromatography Federal										
<i>EPA 314.0 Perchlorate by IC "As Received"</i>										
Perchlorate 14797730	U	4.00	1.00	4.00	ug/L	1	MAR109/30/09	0326	905863	2
<i>EPA300.0 Fluoride in Liquid "As Received"</i>										
Fluoride 16984488	U	ND	0.033	0.100	mg/L	1	VXP1 09/25/09	0539	905769	3

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9040B/9040C	
2	EPA 314.0	
3	EPA 300.0	

GEL LABORATORIES LLC

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Certificate of Analysis

Company : MWH Americas, Inc.
Address : 1340 Treat Blvd. Suite 300
Walnut Creek, California 94597

Report Date: September 30, 2009

Contact: Ms. Sarah Von Raesfeld, MWH
Project: **2009 ISRA Waste Characterization Happy
Valley UST**

Client Sample ID:	HZCW0001BS001	Project:	SSFL00164
Sample ID:	237648002	Client ID:	SSFL001
Matrix:	Water		
Collect Date:	29-SEP-09 13:05		
Receive Date:	30-SEP-09		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis Federal										
<i>Cyanide 9012 "As Received"</i>										
Cyanide, Total 57125	U	ND	1.66	5.00	ug/L	1	AXC2 09/30/09	1453	907679	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	09/30/09	1010	907678

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: September 30, 2009

Page 1 of 2

MWH Americas, Inc.

1340 Treat Blvd. Suite 300

Walnut Creek, California

Contact: Ms. Sarah Von Raesfeld, MWH

Workorder: 237648

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Electrode Analysis											
Batch	905338										
QC1201930351	237648001	DUP									
Corrosivity		H	7.97	H	8.00	SU	0.376	(0%-10%)	LXA1	09/23/09	10:21
QC1201930352	LCS										
Corrosivity	7.00				6.99	SU		99.9	(95%-105%)		09/23/09 10:17
Flow Injection Analysis											
Batch	907679										
QC1201935915	237648002	DUP									
Cyanide, Total		U	ND	U	ND	ug/L	N/A	(+/-5.00)	AXC2	09/30/09	14:54
QC1201935918	LCS										
Cyanide, Total	50.0				53.5	ug/L		107	(90%-110%)		09/30/09 14:52
QC1201935914	MB										
Cyanide, Total				U	ND	ug/L					09/30/09 14:47
QC1201935916	237648002	MS									
Cyanide, Total	100	U	ND		109	ug/L		109	(60%-127%)		09/30/09 14:55
QC1201935917	237648002	MSD									
Cyanide, Total	100	U	ND		108	ug/L	0.922	108	(0%-20%)		09/30/09 14:55
Ion Chromatography											
Batch	905769										
QC1201931378	237648001	DUP									
Fluoride		U	ND	U	ND	mg/L	N/A	(+/-0.100)	VXP1	09/25/09	06:08
QC1201931377	LCS										
Fluoride	5.00				4.88	mg/L		97.6	(90%-110%)		09/25/09 05:10
QC1201931376	MB										
Fluoride				U	ND	mg/L					09/25/09 04:41
QC1201931379	237648001	PS									
Fluoride	5.00	U	ND		4.72	mg/L		94.4	(90%-110%)		09/25/09 06:37
Batch	905863										
QC1201931634	237648001	DUP									
Perchlorate		U	ND	U	4.00	ug/L	N/A	(+/-4.00)	MAR1	09/30/09	03:45
QC1201931636	LCS										
Perchlorate	50.0				49.2	ug/L		98.3	(85%-115%)		09/30/09 03:06
QC1201931633	MB										
Perchlorate				U	4.00	ug/L					09/30/09 02:46
QC1201931635	237648001	PS									
Perchlorate	10.0	U	ND		9.08	ug/L		90.8	(80%-120%)		09/30/09 04:05

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported

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QC Summary

Workorder: 237648

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
A											
A											
B											
B											
C											
C											
D											
D											
F											
F											
H											
H											
J											
J											
M											
M											
N/A											
N/A											
ND											
ND											
NJ											
NJ											
R											
R											
U											
U											
X											
X											
Y											
Y											
Z											
Z											
^											
^											
d											
d											
h											
h											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.



September 29, 2009

Ms. Sarah Von Raesfeld, MWH
MWH Americas, Inc.
1340 Treat Blvd. Suite 300
Walnut Creek, California 94597

Re: Happy Valley
Project Number: 1891614.05462
Project Name: 2009 ISRA Waste Characterizati
Work Order: 237651
SDG: 237651

Dear Ms. Von Raesfeld,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 22, 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. 4406.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.05462
Chain of Custody: MWHAG20090921_00
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556–8171 – www.gel.com

Certificate of Analysis

Company : MWH Americas, Inc.
Address : 1340 Treat Blvd. Suite 300
Walnut Creek, California 94597

Report Date: September 29, 2009

Contact: Ms. Sarah Von Raesfeld, MWH
Project: **2009 ISRA Waste Characterization Happy
Valley UST**

Client Sample ID: HZCW0001AS001
Sample ID: 237651001
Matrix: Water
Collect Date: 21-SEP-09 14:45
Receive Date: 22-SEP-09
Collector: Client

Project: SSFL00165
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Liquid (Standard List) "As Received"</i>											
Americium-241 14596-10-2	U	9.85	+/-16.2	24.5		pCi/L		KXG3 09/23/09	1046	905144	1
Cesium-134 13967709	U	1.02	+/-2.99	5.23		pCi/L					
Cesium-137 10045973	U	0.744	+/-2.80	4.85	20.0	pCi/L					
Cobalt-60 10198400	U	-1.17	+/-3.46	5.33		pCi/L					
Europium-152 14683239	U	2.15	+/-7.04	12.4		pCi/L					
Europium-154 15585101	U	3.90	+/-7.03	13.2		pCi/L					
Manganese-54 13966319	U	-0.792	+/-2.67	4.22		pCi/L					
Potassium-40 13966002	U	-20.2	+/-32.5	50.4		pCi/L					
Sodium-22 13966320	U	1.73	+/-2.47	4.74		pCi/L					
Thorium-228 14274829	U	1.28	+/-6.18	8.74		pCi/L					
Thorium-232 7440291	U	1880	+/-19700	4760		pCi/L					
Uranium-235 15117961	U	-7.72	+/-20.3	31.9		pCi/L					
Uranium-238 7440611	U	152	+/-207	245		pCi/L					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, liquid "As Received"</i>											
Strontium-90 10098972	U	0.310	+/-0.955	1.72	2.00	pCi/L		MXB1 09/26/09	1302	905278	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Liquid "As Received"</i>											
Tritium 10028-17-8	U	57.8	+/-49.5	81.8	200	pCi/L		KXK2 09/28/09	1116	905357	3

The following Analytical Methods were performed

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis

Company : MWH Americas, Inc.
Address : 1340 Treat Blvd. Suite 300
Walnut Creek, California 94597

Report Date: September 29, 2009

Contact: Ms. Sarah Von Raesfeld, MWH
Project: **2009 ISRA Waste Characterization Happy
Valley UST**

Client Sample ID: HZCW0001AS001 Project: SSFL00165
Sample ID: 237651001 Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	EPA 901.1		
2	EPA 905.0 Modified		
3	EPA 906.0 Modified		

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, liquid "As Received"			75.5	(25%–125%)

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: September 29, 2009
Page 1 of 4

MWH Americas, Inc.
1340 Treat Blvd. Suite 300
Walnut Creek, California
Contact: Ms. Sarah Von Raesfeld, MWH

Workorder: 237651

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	905144										
QC1201929880	237651001	DUP									
Americium-241	U	9.85	U	-12.8	pCi/L	1550		N/A	KXG3	09/23/09	13:07
		+/-16.2		+/-23.2							
Cesium-134	U	1.02	U	-0.635	pCi/L	860		N/A			
		+/-2.99		+/-3.23							
Cesium-137	U	0.744	U	1.11	pCi/L	39.1		N/A			
		+/-2.80		+/-3.28							
Cobalt-60	U	-1.17	U	1.40	pCi/L	2180		N/A			
		+/-3.46		+/-3.75							
Europium-152	U	2.15	U	1.17	pCi/L	58.8		N/A			
		+/-7.04		+/-9.27							
Europium-154	U	3.90	U	-5.48	pCi/L	1180		N/A			
		+/-7.03		+/-7.35							
Manganese-54	U	-0.792	U	2.07	pCi/L	447		N/A			
		+/-2.67		+/-2.76							
Potassium-40	U	-20.2	U	-11.4	pCi/L	55.9		N/A			
		+/-32.5		+/-34.7							
Sodium-22	U	1.73	U	-1.89	pCi/L	4520		N/A			
		+/-2.47		+/-2.62							
Thorium-228	U	1.28	U	-2.97	pCi/L	506		N/A			
		+/-6.18		+/-6.58							
Thorium-232	U	1880	U	-708	pCi/L	441		N/A			
		+/-19700		+/-8570							
Uranium-235	U	-7.72	U	-0.13	pCi/L	193		N/A			
		+/-20.3		+/-24.8							
Uranium-238	U	152	U	59.8	pCi/L	87.2		N/A			
		+/-207		+/-203							
QC1201929882	LCS										
Americium-241	1240			1300	pCi/L		105	(75%-125%)		09/23/09	11:07
				+/-183							
Cesium-134			U	7.29	pCi/L						
				+/-10.5							
Cesium-137	436			450	pCi/L		103	(75%-125%)			
				+/-38.7							
Cobalt-60	523			559	pCi/L		107	(75%-125%)			
				+/-56.1							
Europium-152			U	14.8	pCi/L						
				+/-22.4							
Europium-154			U	-0.107	pCi/L						
				+/-13.8							
Manganese-54			U	2.79	pCi/L						

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 237651

Page 2 of 4

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	905144										
Potassium-40			U	+/-8.01 4.20	pCi/L				KXG3	09/23/09	11:07
Sodium-22			U	+/-50.2 0.460	pCi/L						
Thorium-228			U	+/-4.73 11.3	pCi/L						
Thorium-232				+/-14.2 2.46E+05	pCi/L						
Uranium-235			U	+/-2.53E+06 -29.5	pCi/L						
Uranium-238			U	+/-50.3 -451	pCi/L						
QC1201929879	MB										
Americium-241			U	+/-527 -5.08	pCi/L					09/23/09	11:00
Cesium-134			U	+/-20.0 1.74	pCi/L						
Cesium-137			U	+/-3.96 -1.26	pCi/L						
Cobalt-60			U	+/-2.94 -0.269	pCi/L						
Europium-152			U	+/-3.44 1.29	pCi/L						
Europium-154			U	+/-8.86 -0.314	pCi/L						
Manganese-54			U	+/-5.33 -1.27	pCi/L						
Potassium-40			U	+/-2.85 -3.97	pCi/L						
Sodium-22			U	+/-31.3 -0.173	pCi/L						
Thorium-228			U	+/-1.87 10.1	pCi/L						
Thorium-232			U	+/-9.48 -2340	pCi/L						
Uranium-235			U	+/-24500 -9.53	pCi/L						
Uranium-238			U	+/-23.2 -6.44	pCi/L						
				+/-175							
Rad Gas Flow											
Batch	905278										
QC1201930191	237651001 DUP										
Strontium-90	U	0.310	U	1.29	pCi/L	0.00			N/AMXB1	09/26/09	13:24

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 237651

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	905278										
QC1201930193	LCS			+/-0.955							+/-1.01
Strontium-90	64.7				pCi/L		114	(75%-125%)	MXB1	09/26/09	12:59
											+/-4.00
QC1201930190	MB										
Strontium-90			U		pCi/L					09/26/09	13:17
											+/-0.849
QC1201930192	237651001	MS									
Strontium-90	64.7		U	0.310	pCi/L		110	(75%-125%)		09/26/09	12:59
				+/-0.955							+/-3.91
Rad Liquid Scintillation											
Batch	905357										
QC1201930400	237651001	DUP									
Tritium			U	57.8	pCi/L	0.00			N/A KXX2	09/25/09	15:46
				+/-49.5							+/-84.2
QC1201930402	LCS										
Tritium	2270				pCi/L		106	(75%-125%)		09/25/09	18:06
											+/-444
QC1201930399	MB										
Tritium			U		pCi/L					09/28/09	13:19
											+/-46.2
QC1201930401	237651001	MS									
Tritium	2270		U	57.8	pCi/L		110	(75%-125%)		09/25/09	17:49
				+/-49.5							+/-450

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 237651

Page 4 of 4

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
ND		Analyte concentration is not detected above the detection limit								
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier								
R		Sample results are rejected								
U		Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.								
UI		Gamma Spectroscopy--Uncertain identification								
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier								
Y		QC Samples were not spiked with this compound								
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.								
h		Preparation or preservation holding time was exceeded								

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Chain of Custody and Supporting Documentation



CHAIN OF CUSTODY RECORD

COC #:

MWHAG20090921_01

237648/237651

Page: 1 of 1

Customer Information		Project Information			Project Information																																																																												
Site:	SSFL	Client Name:	Boeing		Collector:	A. Goldenberg				Boeing PM:																																																																							
Company:	MWH	Sampling Event:	2009 ISRA Waste Characteriza		Contact #:																																																																												
Report to:	Sarah Von Raesfeld	Project Number:	1891614.05462		<table border="1"> <thead> <tr> <th colspan="10">Requested Analyses</th> <th>Instructions/TAT</th> </tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td rowspan="5"> Legend: Numerical values for analyses equate to turn around time in days H - Hold EH - Extract/Extrude & Hold Note: Values in the cells below are Turn Around Times. </td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>										Requested Analyses										Instructions/TAT												Legend: Numerical values for analyses equate to turn around time in days H - Hold EH - Extract/Extrude & Hold Note: Values in the cells below are Turn Around Times.																																												
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Address:	2121 N. California Blvd	Project Manager:	Alex Fischl																																																																														
	Suite 600	PM Phone #:	(925) 627-4627																																																																														
	Walnut Creek	Field Contact:	Benjamin Stewart																																																																														
	CA	Field Contact #:	(818) 266-1378																																																																														
	94596	Lab Name:	GEL Laboratories, LLC																																																																														
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell																																																																														
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road																																																																														
			Charleston, SC 29407																																																																														
		Lab Phone:	(843) 769-7388																																																																														
Sample Name	Matrix	Date	Time	No. of Containers	Cyanide by 9012A - Water	Fluoride by 300 - Water	PCB by SW8082 - Water	Perchlorate 314 Water	pH by SW9040 - Water	RAD 901.1 Gamma Water	RAD 905.0 Strontium-90 Water	RAD 906.0M Tritium Water				Comments																																																																	
HZCW0001AS001	Water	9/21/2009	14:45	16	5	5	5	5	5	5	5	5				septic tank sample at HVS-3																																																																	

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
<i>Alton M. R... (signature)</i>	9-21-09	<i>R. M. Stelling (signature)</i>	9/22/09				
Company: MWH	Time: 14:50	Company: Grel	Time: 9:20	Company:	Time:	Company:	Time:
Comments:				Geotracker EDF <input type="checkbox"/> Data Validation Package <input type="checkbox"/>			



Client: <u>SSF1</u>		SDG/ARCOC/Work Order: <u>237648 / 237651</u>	
Received By: <u>RMB</u>		Date Received: <u>9/22/09</u>	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		<input checked="" type="checkbox"/>	Maximum Counts Observed*:
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	<u>30cpm</u>
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>	
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>	

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	<input checked="" type="checkbox"/>			Preservation Method: <u>ice bags</u> blue ice dry ice none other (describe) <u>3, 2.</u>
3	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4	Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		<input checked="" type="checkbox"/>		Sample ID's and containers affected:
7	Are Encore containers present?			<input checked="" type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	<input checked="" type="checkbox"/>			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			

Comments:

FC: 9457 3161 4207
 " " 4192



March 03, 2010

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

Re: SSFL
Project Number: 1891614.05462
Project Name: ISRA Sampling, August 2009
Work Order: 237767
SDG: 237767

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 24, 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. 4406.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.05462
Chain of Custody: MWHAG20090923_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237767

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237767001

BASIS: Dry Weight

DATE COLLECTED 23-SEP-09

CLIENT ID: CNET0100S001

LEVEL: Low

DATE RECEIVED 24-SEP-09

MATRIX: SOIL

%SOLIDS: 94.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	6.23	mg/kg		0.069	0.209	0.2	2	MS	PRB	09/28/09 18:38	090928-1	905972
7439-92-1	Lead	4.03	mg/kg		0.105	0.418	0.4	2	MS	PRB	09/28/09 18:38	090928-1	905972

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905972	905971	SW846 3050B	0.507	g	50	mL	09/25/09	FGA

Subcontract Data

Dioxins

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072002	Date Collected: 09/23/2009 10:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 1.7
Client ID: HZET0801S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 13:29	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-5		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.34 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.0951	pg/g	0.0951	0.412
40321-76-4	1,2,3,7,8-PeCDD	U	0.0772	pg/g	0.0772	2.06
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.131	pg/g	0.131	2.06
57653-85-7	1,2,3,6,7,8-HxCDD	U	0.143	pg/g	0.143	2.06
19408-74-3	1,2,3,7,8,9-HxCDD	U	0.144	pg/g	0.144	2.06
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	0.465	pg/g	0.244	2.06
3268-87-9	1,2,3,4,5,6,7,8-OCDD		5.32	pg/g	0.465	4.12
51207-31-9	2,3,7,8-TCDF	JK	0.246	pg/g	0.132	0.412
57117-41-6	1,2,3,7,8-PeCDF	U	0.0823	pg/g	0.0823	2.06
57117-31-4	2,3,4,7,8-PeCDF	J	0.0824	pg/g	0.0735	2.06
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.0757	pg/g	0.0757	2.06
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.0852	pg/g	0.0852	2.06
60851-34-5	2,3,4,6,7,8-HxCDF	U	0.091	pg/g	0.091	2.06
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.135	pg/g	0.135	2.06
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	0.163	pg/g	0.112	2.06
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.185	pg/g	0.185	2.06
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	0.516	pg/g	0.516	4.12
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.246	pg/g	0.0951	0.412
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	0.0772	pg/g	0.0772	2.06
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	0.131	pg/g	0.131	2.06
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	1.20	pg/g	0.244	2.06
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.503	pg/g	0.132	0.412
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.0824	pg/g	0.0503	2.06
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.106	pg/g	0.0757	2.06
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.163	pg/g	0.112	2.06
	TEQ WHO2005 ND=0 with EMPCs		0.0572	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.186	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		148	165	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDD		139	165	pg/g	84	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		175	165	pg/g	106	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		166	165	pg/g	101	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		140	165	pg/g	85	(23%-140%)
13C-OCDD		202	330	pg/g	61	(17%-157%)
13C-2,3,7,8-TCDF		148	165	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDF		137	165	pg/g	83	(24%-185%)
13C-2,3,4,7,8-PeCDF		153	165	pg/g	93	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		189	165	pg/g	115	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		167	165	pg/g	101	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		168	165	pg/g	102	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		155	165	pg/g	94	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		145	165	pg/g	88	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 2 of 2

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072002	Date Collected: 09/23/2009 10:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 1.7
Client ID: HZET0801S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 13:29	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-5		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.34 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			142	165	pg/g	86
37Cl-2,3,7,8-TCDD			13.8	16.5	pg/g	84
						(26%-138%)
						(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072002	Date Collected: 09/23/2009 10:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 1.7
Client ID: HZET0801S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/30/2009 13:54	Analyst: ML	Instrument: HRP763
Data File: b30sep09a-13		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.34 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.279	pg/g	0.121	0.412

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
---------------------------	------	--------	---------	-------	-----------	-------------------

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072003	Date Collected: 09/23/2009 10:15	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 9.9
Client ID: HZET0802S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 14:17	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-6		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 13.29 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.116	pg/g	0.116	0.418
40321-76-4	1,2,3,7,8-PeCDD	JK	0.247	pg/g	0.0842	2.09
39227-28-6	1,2,3,4,7,8-HxCDD	J	0.642	pg/g	0.121	2.09
57653-85-7	1,2,3,6,7,8-HxCDD	J	1.81	pg/g	0.131	2.09
19408-74-3	1,2,3,7,8,9-HxCDD	J	1.00	pg/g	0.132	2.09
35822-46-9	1,2,3,4,6,7,8-HpCDD		95.1	pg/g	0.469	2.09
3268-87-9	1,2,3,4,5,6,7,8-OCDD		1280	pg/g	0.722	4.18
51207-31-9	2,3,7,8-TCDF	J	0.366	pg/g	0.149	0.418
57117-41-6	1,2,3,7,8-PeCDF	JK	0.139	pg/g	0.0864	2.09
57117-31-4	2,3,4,7,8-PeCDF	J	0.324	pg/g	0.0765	2.09
70648-26-9	1,2,3,4,7,8-HxCDF	JK	0.279	pg/g	0.133	2.09
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.241	pg/g	0.149	2.09
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.324	pg/g	0.161	2.09
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.301	pg/g	0.200	2.09
67562-39-4	1,2,3,4,6,7,8-HpCDF		5.65	pg/g	0.128	2.09
55673-89-7	1,2,3,4,7,8,9-HpCDF	J	0.495	pg/g	0.242	2.09
39001-02-0	1,2,3,4,5,6,7,8-OCDF		37.6	pg/g	0.391	4.18
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		0.528	pg/g	0.116	0.418
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	2.06	pg/g	0.0842	2.09
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		22.0	pg/g	0.121	2.09
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		392	pg/g	0.469	2.09
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	2.25	pg/g	0.149	0.418
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		3.08	pg/g	0.0503	2.09
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		6.58	pg/g	0.133	2.09
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		23.8	pg/g	0.128	2.09
	TEQ WHO2005 ND=0 with EMPCs		2.25	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		2.31	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		161	167	pg/g	96	(25%-164%)
13C-1,2,3,7,8-PeCDD		156	167	pg/g	93	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		151	167	pg/g	90	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		151	167	pg/g	90	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		140	167	pg/g	84	(23%-140%)
13C-OCDD		271	334	pg/g	81	(17%-157%)
13C-2,3,7,8-TCDF		154	167	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDF		152	167	pg/g	91	(24%-185%)
13C-2,3,4,7,8-PeCDF		174	167	pg/g	104	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		170	167	pg/g	102	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		146	167	pg/g	87	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		154	167	pg/g	92	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		157	167	pg/g	94	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		147	167	pg/g	88	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 2 of 2

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072003	Date Collected: 09/23/2009 10:15	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 9.9
Client ID: HZET0802S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 14:17	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-6		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 13.29 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		138	167	pg/g	82	(26%-138%)
37Cl-2,3,7,8-TCDD		15.5	16.7	pg/g	93	(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072003	Date Collected: 09/23/2009 10:15	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 9.9
Client ID: HZET0802S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/30/2009 14:16	Analyst: ML	Instrument: HRP763
Data File: b30sep09a-14		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 13.29 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.356	pg/g	0.125	0.418

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072004	Date Collected: 09/23/2009 09:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 13.7
Client ID: HZET0803S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 15:05	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-7		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.33 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.107	pg/g	0.107	0.470
40321-76-4	1,2,3,7,8-PeCDD	U	0.132	pg/g	0.132	2.35
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.170	pg/g	0.170	2.35
57653-85-7	1,2,3,6,7,8-HxCDD	JK	0.227	pg/g	0.188	2.35
19408-74-3	1,2,3,7,8,9-HxCDD	JK	0.216	pg/g	0.188	2.35
35822-46-9	1,2,3,4,6,7,8-HpCDD		2.48	pg/g	0.293	2.35
3268-87-9	1,2,3,4,5,6,7,8-OCDD		31.2	pg/g	0.904	4.70
51207-31-9	2,3,7,8-TCDF	U	0.172	pg/g	0.172	0.470
57117-41-6	1,2,3,7,8-PeCDF	JK	0.128	pg/g	0.0842	2.35
57117-31-4	2,3,4,7,8-PeCDF	J	0.712	pg/g	0.0782	2.35
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.171	pg/g	0.111	2.35
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.261	pg/g	0.118	2.35
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.380	pg/g	0.135	2.35
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.197	pg/g	0.197	2.35
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.611	pg/g	0.167	2.35
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.282	pg/g	0.282	2.35
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	1.72	pg/g	0.971	4.70
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.256	pg/g	0.107	0.470
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.314	pg/g	0.132	2.35
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	1.25	pg/g	0.170	2.35
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		6.25	pg/g	0.293	2.35
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	3.33	pg/g	0.172	0.470
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		7.59	pg/g	0.0552	2.35
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		4.58	pg/g	0.111	2.35
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	1.23	pg/g	0.167	2.35
	TEQ WHO2005 ND=0 with EMPCs		0.384	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.532	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		166	188	pg/g	88	(25%-164%)
13C-1,2,3,7,8-PeCDD		148	188	pg/g	79	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		235	188	pg/g	125	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		218	188	pg/g	116	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		163	188	pg/g	87	(23%-140%)
13C-OCDD		185	376	pg/g	49	(17%-157%)
13C-2,3,7,8-TCDF		163	188	pg/g	87	(25%-164%)
13C-1,2,3,7,8-PeCDF		157	188	pg/g	84	(24%-185%)
13C-2,3,4,7,8-PeCDF		169	188	pg/g	90	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		241	188	pg/g	128	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		213	188	pg/g	113	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		203	188	pg/g	108	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		188	188	pg/g	100	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		164	188	pg/g	87	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072004	Date Collected: 09/23/2009 09:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 13.7
Client ID: HZET0803S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 15:05	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-7		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.33 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		162	188	pg/g	86	(26%-138%)
37Cl-2,3,7,8-TCDD		15.2	18.8	pg/g	81	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072004	Date Collected: 09/23/2009 09:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 13.7
Client ID: HZET0803S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/30/2009 14:37	Analyst: ML	Instrument: HRP763
Data File: b30sep09a-15		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.33 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	JK	0.374	pg/g	0.143	0.470

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072005	Date Collected: 09/23/2009 10:50	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 1.3
Client ID: HZET0804S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 15:53	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-8		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.36 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.107	pg/g	0.107	0.410
40321-76-4	1,2,3,7,8-PeCDD	U	0.0859	pg/g	0.0859	2.05
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.167	pg/g	0.167	2.05
57653-85-7	1,2,3,6,7,8-HxCDD	JK	0.226	pg/g	0.197	2.05
19408-74-3	1,2,3,7,8,9-HxCDD	U	0.190	pg/g	0.190	2.05
35822-46-9	1,2,3,4,6,7,8-HpCDD		3.79	pg/g	0.207	2.05
3268-87-9	1,2,3,4,5,6,7,8-OCDD		44.4	pg/g	0.431	4.10
51207-31-9	2,3,7,8-TCDF	J	0.390	pg/g	0.200	0.410
57117-41-6	1,2,3,7,8-PeCDF	U	0.124	pg/g	0.124	2.05
57117-31-4	2,3,4,7,8-PeCDF	J	0.299	pg/g	0.112	2.05
70648-26-9	1,2,3,4,7,8-HxCDF	JK	0.133	pg/g	0.0959	2.05
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.167	pg/g	0.110	2.05
60851-34-5	2,3,4,6,7,8-HxCDF	JK	0.208	pg/g	0.112	2.05
72918-21-9	1,2,3,7,8,9-HxCDF	JK	0.213	pg/g	0.154	2.05
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.769	pg/g	0.0932	2.05
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.177	pg/g	0.177	2.05
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	3.18	pg/g	0.323	4.10
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.321	pg/g	0.107	0.410
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	0.0859	pg/g	0.0859	2.05
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	1.23	pg/g	0.167	2.05
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		11.6	pg/g	0.207	2.05
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	1.66	pg/g	0.200	0.410
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		2.36	pg/g	0.0482	2.05
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		2.16	pg/g	0.0959	2.05
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	1.88	pg/g	0.0932	2.05
	TEQ WHO2005 ND=0 with EMPCs		0.283	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.400	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		149	164	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDD		154	164	pg/g	94	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		159	164	pg/g	97	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		150	164	pg/g	92	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		134	164	pg/g	82	(23%-140%)
13C-OCDD		249	328	pg/g	76	(17%-157%)
13C-2,3,7,8-TCDF		147	164	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDF		145	164	pg/g	89	(24%-185%)
13C-2,3,4,7,8-PeCDF		172	164	pg/g	105	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		176	164	pg/g	107	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		146	164	pg/g	89	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		158	164	pg/g	96	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		154	164	pg/g	94	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		143	164	pg/g	87	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072005	Date Collected: 09/23/2009 10:50	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 1.3
Client ID: HZET0804S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 15:53	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-8		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.36 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		135	164	pg/g	82	(26%-138%)
37Cl-2,3,7,8-TCDD		14.0	16.4	pg/g	85	(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072005	Date Collected: 09/23/2009 10:50	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 1.3
Client ID: HZET0804S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/30/2009 14:59	Analyst: ML	Instrument: HRP763
Data File: b30sep09a-16		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.36 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.384	pg/g	0.133	0.410

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072006	Date Collected: 09/23/2009 10:40	Matrix: Soil
Client Sample: 1613 Soil DUP	Date Received: 09/26/2009 00:00	%Moisture: 2.7
Client ID: HZET0805D001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 16:41	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-9		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.14 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.0917	pg/g	0.0917	0.423
40321-76-4	1,2,3,7,8-PeCDD	U	0.0988	pg/g	0.0988	2.12
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.139	pg/g	0.139	2.12
57653-85-7	1,2,3,6,7,8-HxCDD	J	0.269	pg/g	0.151	2.12
19408-74-3	1,2,3,7,8,9-HxCDD	JK	0.261	pg/g	0.152	2.12
35822-46-9	1,2,3,4,6,7,8-HpCDD		5.43	pg/g	0.201	2.12
3268-87-9	1,2,3,4,5,6,7,8-OCDD		75.4	pg/g	0.462	4.23
51207-31-9	2,3,7,8-TCDF		0.432	pg/g	0.191	0.423
57117-41-6	1,2,3,7,8-PeCDF	JK	0.188	pg/g	0.0697	2.12
57117-31-4	2,3,4,7,8-PeCDF	J	0.405	pg/g	0.0667	2.12
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.245	pg/g	0.0723	2.12
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.220	pg/g	0.0779	2.12
60851-34-5	2,3,4,6,7,8-HxCDF	JK	0.227	pg/g	0.0839	2.12
72918-21-9	1,2,3,7,8,9-HxCDF	JK	0.173	pg/g	0.122	2.12
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	1.27	pg/g	0.109	2.12
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.188	pg/g	0.188	2.12
39001-02-0	1,2,3,4,5,6,7,8-OCDF		5.13	pg/g	0.347	4.23
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		0.579	pg/g	0.0917	0.423
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.140	pg/g	0.0988	2.12
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	2.01	pg/g	0.139	2.12
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		16.4	pg/g	0.201	2.12
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	2.47	pg/g	0.191	0.423
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		4.29	pg/g	0.045	2.12
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		3.19	pg/g	0.0723	2.12
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		3.26	pg/g	0.109	2.12
	TEQ WHO2005 ND=0 with EMPCs		0.401	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.504	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		159	169	pg/g	94	(25%-164%)
13C-1,2,3,7,8-PeCDD		163	169	pg/g	96	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		168	169	pg/g	99	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		165	169	pg/g	97	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		155	169	pg/g	92	(23%-140%)
13C-OCDD		280	339	pg/g	83	(17%-157%)
13C-2,3,7,8-TCDF		159	169	pg/g	94	(25%-164%)
13C-1,2,3,7,8-PeCDF		157	169	pg/g	92	(24%-185%)
13C-2,3,4,7,8-PeCDF		176	169	pg/g	104	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		198	169	pg/g	117	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		165	169	pg/g	98	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		174	169	pg/g	103	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		165	169	pg/g	98	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		163	169	pg/g	96	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072006	Date Collected: 09/23/2009 10:40	Matrix: Soil
Client Sample: 1613 Soil DUP	Date Received: 09/26/2009 00:00	%Moisture: 2.7
Client ID: HZET0805D001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 16:41	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-9		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.14 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		165	169	pg/g	98	(26%-138%)
37Cl-2,3,7,8-TCDD		15.3	16.9	pg/g	90	(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072006	Date Collected: 09/23/2009 10:40	Matrix: Soil
Client Sample: 1613 Soil DUP	Date Received: 09/26/2009 00:00	%Moisture: 2.7
Client ID: HZET0805D001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/30/2009 15:20	Analyst: ML	Instrument: HRP763
Data File: b30sep09a-17		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.14 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.405	pg/g	0.117	0.423

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072007	Date Collected: 09/23/2009 10:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 12.5
Client ID: HZET0805S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 17:29	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-10		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.67 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.113	pg/g	0.113	0.451
40321-76-4	1,2,3,7,8-PeCDD	U	0.106	pg/g	0.106	2.25
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.142	pg/g	0.142	2.25
57653-85-7	1,2,3,6,7,8-HxCDD	J	0.267	pg/g	0.158	2.25
19408-74-3	1,2,3,7,8,9-HxCDD	J	0.234	pg/g	0.158	2.25
35822-46-9	1,2,3,4,6,7,8-HpCDD		3.94	pg/g	0.209	2.25
3268-87-9	1,2,3,4,5,6,7,8-OCDD		41.1	pg/g	0.350	4.51
51207-31-9	2,3,7,8-TCDF		0.628	pg/g	0.245	0.451
57117-41-6	1,2,3,7,8-PeCDF	J	0.206	pg/g	0.094	2.25
57117-31-4	2,3,4,7,8-PeCDF	J	0.503	pg/g	0.0824	2.25
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.233	pg/g	0.086	2.25
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.211	pg/g	0.088	2.25
60851-34-5	2,3,4,6,7,8-HxCDF	JK	0.280	pg/g	0.096	2.25
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.269	pg/g	0.130	2.25
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	0.895	pg/g	0.0862	2.25
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.172	pg/g	0.172	2.25
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	2.48	pg/g	0.426	4.51
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		0.747	pg/g	0.113	0.451
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.184	pg/g	0.106	2.25
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	1.70	pg/g	0.142	2.25
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		10.5	pg/g	0.209	2.25
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	4.50	pg/g	0.245	0.451
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		4.88	pg/g	0.0474	2.25
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		3.12	pg/g	0.086	2.25
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	1.74	pg/g	0.0862	2.25
	TEQ WHO2005 ND=0 with EMPCs		0.431	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.548	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		176	180	pg/g	98	(25%-164%)
13C-1,2,3,7,8-PeCDD		190	180	pg/g	106	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		176	180	pg/g	97	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		166	180	pg/g	92	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		146	180	pg/g	81	(23%-140%)
13C-OCDD		256	361	pg/g	71	(17%-157%)
13C-2,3,7,8-TCDF		170	180	pg/g	94	(25%-164%)
13C-1,2,3,7,8-PeCDF		180	180	pg/g	100	(24%-185%)
13C-2,3,4,7,8-PeCDF		212	180	pg/g	118	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		183	180	pg/g	101	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		161	180	pg/g	89	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		175	180	pg/g	97	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		172	180	pg/g	95	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		169	180	pg/g	94	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072007	Date Collected: 09/23/2009 10:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 12.5
Client ID: HZET0805S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 17:29	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-10		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.67 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		147	180	pg/g	81	(26%-138%)
37Cl-2,3,7,8-TCDD		16.5	18.0	pg/g	92	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
J Value is estimated
K Estimated Maximum Possible Concentration
U Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072007	Date Collected: 09/23/2009 10:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 12.5
Client ID: HZET0805S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/30/2009 15:42	Analyst: ML	Instrument: HRP763
Data File: b30sep09a-18		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.67 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF		0.566	pg/g	0.146	0.451

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072008	Date Collected: 09/23/2009 10:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 3.5
Client ID: HZET0806S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 18:16	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-11		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.17 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.105	pg/g	0.105	0.426
40321-76-4	1,2,3,7,8-PeCDD	JK	0.189	pg/g	0.109	2.13
39227-28-6	1,2,3,4,7,8-HxCDD	J	0.276	pg/g	0.158	2.13
57653-85-7	1,2,3,6,7,8-HxCDD	J	1.09	pg/g	0.160	2.13
19408-74-3	1,2,3,7,8,9-HxCDD	J	0.714	pg/g	0.167	2.13
35822-46-9	1,2,3,4,6,7,8-HpCDD		19.5	pg/g	0.334	2.13
3268-87-9	1,2,3,4,5,6,7,8-OCDD		346	pg/g	0.608	4.26
51207-31-9	2,3,7,8-TCDF	J	0.342	pg/g	0.184	0.426
57117-41-6	1,2,3,7,8-PeCDF	JK	0.133	pg/g	0.117	2.13
57117-31-4	2,3,4,7,8-PeCDF	J	0.278	pg/g	0.104	2.13
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.175	pg/g	0.102	2.13
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.165	pg/g	0.110	2.13
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.204	pg/g	0.116	2.13
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.370	pg/g	0.161	2.13
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	1.87	pg/g	0.0937	2.13
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.175	pg/g	0.175	2.13
39001-02-0	1,2,3,4,5,6,7,8-OCDF		7.77	pg/g	0.550	4.26
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.322	pg/g	0.105	0.426
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.716	pg/g	0.109	2.13
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		6.17	pg/g	0.158	2.13
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		61.9	pg/g	0.334	2.13
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	1.99	pg/g	0.184	0.426
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		2.53	pg/g	0.0487	2.13
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		4.08	pg/g	0.102	2.13
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		5.78	pg/g	0.0937	2.13
	TEQ WHO2005 ND=0 with EMPCs		0.930	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.984	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		159	170	pg/g	94	(25%-164%)
13C-1,2,3,7,8-PeCDD		167	170	pg/g	98	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		166	170	pg/g	98	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		162	170	pg/g	95	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		137	170	pg/g	81	(23%-140%)
13C-OCDD		232	341	pg/g	68	(17%-157%)
13C-2,3,7,8-TCDF		155	170	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDF		160	170	pg/g	94	(24%-185%)
13C-2,3,4,7,8-PeCDF		185	170	pg/g	109	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		183	170	pg/g	108	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		160	170	pg/g	94	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		168	170	pg/g	99	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		159	170	pg/g	93	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		147	170	pg/g	86	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072008	Date Collected: 09/23/2009 10:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 3.5
Client ID: HZET0806S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 18:16	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-11		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.17 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		136	170	pg/g	80	(26%-138%)
37Cl-2,3,7,8-TCDD		15.4	17.0	pg/g	90	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072008	Date Collected: 09/23/2009 10:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 00:00	%Moisture: 3.5
Client ID: HZET0806S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/30/2009 16:04	Analyst: ML	Instrument: HRP763
Data File: b30sep09a-19		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.17 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.317	pg/g	0.136	0.426

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072009	Date Collected: 09/23/2009 10:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 6.6
Client ID: HZET0800S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 19:04	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-12		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.85 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.103	pg/g	0.103	0.416
40321-76-4	1,2,3,7,8-PeCDD	U	0.0959	pg/g	0.0959	2.08
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.123	pg/g	0.123	2.08
57653-85-7	1,2,3,6,7,8-HxCDD	U	0.134	pg/g	0.134	2.08
19408-74-3	1,2,3,7,8,9-HxCDD	U	0.135	pg/g	0.135	2.08
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	0.380	pg/g	0.185	2.08
3268-87-9	1,2,3,4,5,6,7,8-OCDD	J	2.40	pg/g	0.550	4.16
51207-31-9	2,3,7,8-TCDF	J	0.403	pg/g	0.154	0.416
57117-41-6	1,2,3,7,8-PeCDF	U	0.0801	pg/g	0.0801	2.08
57117-31-4	2,3,4,7,8-PeCDF	JK	0.103	pg/g	0.0711	2.08
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.0678	pg/g	0.0678	2.08
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.0698	pg/g	0.0698	2.08
60851-34-5	2,3,4,6,7,8-HxCDF	U	0.0761	pg/g	0.0761	2.08
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.104	pg/g	0.104	2.08
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	0.101	pg/g	0.101	2.08
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.187	pg/g	0.187	2.08
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	0.385	pg/g	0.385	4.16
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.138	pg/g	0.103	0.416
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	0.0959	pg/g	0.0959	2.08
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	0.123	pg/g	0.123	2.08
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	0.750	pg/g	0.185	2.08
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.776	pg/g	0.154	0.416
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.103	pg/g	0.0458	2.08
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.0999	pg/g	0.0678	2.08
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	0.101	pg/g	0.101	2.08
	TEQ WHO2005 ND=0 with EMPCs		0.0758	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.213	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		152	167	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDD		153	167	pg/g	92	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		153	167	pg/g	92	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		155	167	pg/g	93	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		131	167	pg/g	78	(23%-140%)
13C-OCDD		219	333	pg/g	66	(17%-157%)
13C-2,3,7,8-TCDF		148	167	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		146	167	pg/g	88	(24%-185%)
13C-2,3,4,7,8-PeCDF		169	167	pg/g	101	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		169	167	pg/g	102	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		151	167	pg/g	90	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		155	167	pg/g	93	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		154	167	pg/g	93	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		137	167	pg/g	82	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072009	Date Collected: 09/23/2009 10:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 6.6
Client ID: HZET0800S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 19:04	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-12		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.85 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		131	167	pg/g	79	(26%-138%)
37Cl-2,3,7,8-TCDD		14.1	16.7	pg/g	85	(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1072	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1072009	Date Collected: 09/23/2009 10:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 6.6
Client ID: HZET0800S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/30/2009 16:25	Analyst: ML	Instrument: HRP763
Data File: b30sep09a-20		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.85 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.408	pg/g	0.128	0.416

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.



March 03, 2010

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

Re: SSFL
Project Number: 1891614.05462
Project Name: ISRA Sampling, August 2009
Work Order: 237844
SDG: 237844

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 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. 4406.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.05462
Chain of Custody: MWHAG20090924_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844001

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0700S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 91.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	6.74	mg/kg	*N	0.0684	0.207	0.2	2	MS	RMJ	09/29/09 18:09	090928-1	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.525	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844002

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0701S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 90.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	28.7	mg/kg	*N	0.145	0.44	0.2	4	MS	RMJ	09/30/09 03:38	090929-2	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.501	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844003

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0702S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 93.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	11.9	mg/kg	*N	0.0705	0.214	0.2	2	MS	RMJ	09/29/09 18:21	090928-1	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.5	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844004

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0703S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 95.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	5.49	mg/kg	*N	0.0659	0.2	0.2	2	MS	RMJ	09/29/09 18:27	090928-1	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.525	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844005

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0704S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 98.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	5.13	mg/kg	*N	0.0637	0.193	0.2	2	MS	RMJ	09/29/09 18:33	090928-1	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.525	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844006

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0705S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 94.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	5.53	mg/kg	*N	0.0679	0.206	0.2	2	MS	RMJ	09/29/09 18:39	090928-1	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.516	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844007

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0706S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 96.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	7.06	mg/kg	*N	0.067	0.203	0.2	2	MS	RMJ	09/30/09 03:40	090929-2	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.511	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844008

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0707S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 98.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	5.26	mg/kg	*N	0.0642	0.195	0.2	2	MS	RMJ	09/30/09 03:43	090929-2	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.52	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844009

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0708S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 96.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	8.34	mg/kg	*N	0.0678	0.205	0.2	2	MS	RMJ	09/30/09 03:46	090929-2	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.505	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844010 **BASIS:** Dry Weight **DATE COLLECTED** 24-SEP-09

CLIENT ID: HZET0709S001 **LEVEL:** Low **DATE RECEIVED** 25-SEP-09

MATRIX: SOIL **%SOLIDS:** 99.33

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	23.1	mg/kg	*N	0.129	0.392	0.2	4	MS	RMJ	09/30/09 03:48	090929-2	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.514	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844011

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0711S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 96

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	11.2	mg/kg	*N	0.0664	0.201	0.2	2	MS	RMJ	09/30/09 03:51	090929-2	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.518	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844012

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0712S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 95.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	9.03	mg/kg	*N	0.0688	0.209	0.2	2	MS	RMJ	09/30/09 03:59	090929-2	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.501	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844013

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0713S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 94.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	9.99	mg/kg	*N	0.0694	0.21	0.2	2	MS	RMJ	09/30/09 04:01	090929-2	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.501	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844014

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0714S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 90.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	6.49	mg/kg	*N	0.0713	0.216	0.2	2	MS	RMJ	09/30/09 04:04	090929-2	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.511	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844015

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0715S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 99.19

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	6.57	mg/kg	*N	0.0652	0.198	0.2	2	MS	RMJ	09/30/09 04:17	090929-2	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.51	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237844

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237844016

BASIS: Dry Weight

DATE COLLECTED 24-SEP-09

CLIENT ID: HZET0716S001

LEVEL: Low

DATE RECEIVED 25-SEP-09

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	7.83	mg/kg	*N	0.0713	0.216	0.2	2	MS	RMJ	09/30/09 04:20	090929-2	906483

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906483	906482	SW846 3050B	0.521	g	50	mL	09/28/09	FGA

Subcontract Data

Dioxins

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073001	Date Collected: 09/24/2009 13:39	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 9
Client ID: HZET0700S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 19:52	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-13		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.69 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.106	pg/g	0.106	0.433
40321-76-4	1,2,3,7,8-PeCDD	JK	0.123	pg/g	0.0809	2.17
39227-28-6	1,2,3,4,7,8-HxCDD	JK	0.126	pg/g	0.125	2.17
57653-85-7	1,2,3,6,7,8-HxCDD	J	0.504	pg/g	0.144	2.17
19408-74-3	1,2,3,7,8,9-HxCDD	JK	0.459	pg/g	0.141	2.17
35822-46-9	1,2,3,4,6,7,8-HpCDD		10.9	pg/g	0.265	2.17
3268-87-9	1,2,3,4,5,6,7,8-OCDD		131	pg/g	0.532	4.33
51207-31-9	2,3,7,8-TCDF	J	0.310	pg/g	0.142	0.433
57117-41-6	1,2,3,7,8-PeCDF	U	.103	pg/g	0.103	2.17
57117-31-4	2,3,4,7,8-PeCDF	J	0.107	pg/g	0.0915	2.17
70648-26-9	1,2,3,4,7,8-HxCDF	JK	0.109	pg/g	0.0733	2.17
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.102	pg/g	0.0771	2.17
60851-34-5	2,3,4,6,7,8-HxCDF	JK	0.126	pg/g	0.087	2.17
72918-21-9	1,2,3,7,8,9-HxCDF	U	.12	pg/g	0.120	2.17
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	1.49	pg/g	0.0989	2.17
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.189	pg/g	0.189	2.17
39001-02-0	1,2,3,4,5,6,7,8-OCDF		8.10	pg/g	0.589	4.33
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		0.535	pg/g	0.106	0.433
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.374	pg/g	0.0809	2.17
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		4.26	pg/g	0.125	2.17
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		38.7	pg/g	0.265	2.17
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	1.09	pg/g	0.142	0.433
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.547	pg/g	0.0504	2.17
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	1.59	pg/g	0.0733	2.17
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		4.43	pg/g	0.0989	2.17
	TEQ WHO2005 ND=0 with EMPCs		0.494	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.556	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		157	173	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDD		162	173	pg/g	93	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		165	173	pg/g	95	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		159	173	pg/g	92	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		146	173	pg/g	84	(23%-140%)
13C-OCDD		247	346	pg/g	71	(17%-157%)
13C-2,3,7,8-TCDF		154	173	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		153	173	pg/g	88	(24%-185%)
13C-2,3,4,7,8-PeCDF		176	173	pg/g	102	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		184	173	pg/g	106	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		162	173	pg/g	94	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		169	173	pg/g	97	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		161	173	pg/g	93	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		156	173	pg/g	90	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073001	Date Collected: 09/24/2009 13:39	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 9
Client ID: HZET0700S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 19:52	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-13		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.69 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		148	173	pg/g	85	(26%-138%)
37Cl-2,3,7,8-TCDD		14.9	17.3	pg/g	86	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073001	Date Collected: 09/24/2009 13:39	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 9
Client ID: HZET0700S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/03/2009 11:13	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-9		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.69 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.397	pg/g	0.117	0.433

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073002	Date Collected: 09/24/2009 13:41	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 9.8
Client ID: HZET0701S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 20:40	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-14		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 13.95 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.11	pg/g	0.110	0.397
40321-76-4	1,2,3,7,8-PeCDD	J	0.178	pg/g	0.127	1.99
39227-28-6	1,2,3,4,7,8-HxCDD	JK	0.372	pg/g	0.197	1.99
57653-85-7	1,2,3,6,7,8-HxCDD	J	1.27	pg/g	0.210	1.99
19408-74-3	1,2,3,7,8,9-HxCDD	J	0.887	pg/g	0.214	1.99
35822-46-9	1,2,3,4,6,7,8-HpCDD		47.7	pg/g	0.370	1.99
3268-87-9	1,2,3,4,5,6,7,8-OCDD		556	pg/g	0.725	3.97
51207-31-9	2,3,7,8-TCDF	U	.156	pg/g	0.156	0.397
57117-41-6	1,2,3,7,8-PeCDF	J	0.106	pg/g	0.0861	1.99
57117-31-4	2,3,4,7,8-PeCDF	J	0.189	pg/g	0.074	1.99
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.205	pg/g	0.0942	1.99
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.191	pg/g	0.100	1.99
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.195	pg/g	0.0988	1.99
72918-21-9	1,2,3,7,8,9-HxCDF	U	.149	pg/g	0.149	1.99
67562-39-4	1,2,3,4,6,7,8-HpCDF		5.70	pg/g	0.116	1.99
55673-89-7	1,2,3,4,7,8,9-HpCDF	JK	0.289	pg/g	0.218	1.99
39001-02-0	1,2,3,4,5,6,7,8-OCDF		31.5	pg/g	0.454	3.97
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.11	pg/g	0.110	0.397
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.728	pg/g	0.127	1.99
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		13.6	pg/g	0.197	1.99
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		171	pg/g	0.370	1.99
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	1.68	pg/g	0.156	0.397
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	1.65	pg/g	0.0489	1.99
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		4.32	pg/g	0.0942	1.99
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		19.1	pg/g	0.116	1.99
	TEQ WHO2005 ND=0 with EMPCs		1.26	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		1.33	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		143	159	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDD		150	159	pg/g	94	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		158	159	pg/g	100	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		147	159	pg/g	92	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		131	159	pg/g	83	(23%-140%)
13C-OCDD		241	318	pg/g	76	(17%-157%)
13C-2,3,7,8-TCDF		141	159	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		143	159	pg/g	90	(24%-185%)
13C-2,3,4,7,8-PeCDF		169	159	pg/g	106	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		169	159	pg/g	106	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		149	159	pg/g	94	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		161	159	pg/g	101	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		146	159	pg/g	92	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		141	159	pg/g	89	(28%-143%)

**Hi-Res Dioxins/Furans
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Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073002	Date Collected: 09/24/2009 13:41	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 9.8
Client ID: HZET0701S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 09/29/2009 20:40	Analyst: HMP	Instrument: HRP763
Data File: b29sep09a-14		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 13.95 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		132	159	pg/g	83	(26%-138%)
37Cl-2,3,7,8-TCDD		13.3	15.9	pg/g	83	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
J Value is estimated
K Estimated Maximum Possible Concentration
U Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073002	Date Collected: 09/24/2009 13:41	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 9.8
Client ID: HZET0701S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/03/2009 11:34	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-10		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 13.95 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.356	pg/g	0.109	0.397

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073003	Date Collected: 09/24/2009 13:42	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 7
Client ID: HZET0702S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 06:07	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-2		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.36 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		0.487	pg/g	0.164	0.435
40321-76-4	1,2,3,7,8-PeCDD		2.42	pg/g	0.121	2.17
39227-28-6	1,2,3,4,7,8-HxCDD		12.6	pg/g	0.365	2.17
57653-85-7	1,2,3,6,7,8-HxCDD		5.46	pg/g	0.395	2.17
19408-74-3	1,2,3,7,8,9-HxCDD		8.67	pg/g	0.400	2.17
35822-46-9	1,2,3,4,6,7,8-HpCDD		613	pg/g	1.29	2.17
3268-87-9	1,2,3,4,5,6,7,8-OCDD		6360	pg/g	1.13	4.35
51207-31-9	2,3,7,8-TCDF		0.518	pg/g	0.195	0.435
57117-41-6	1,2,3,7,8-PeCDF	J	0.202	pg/g	0.102	2.17
57117-31-4	2,3,4,7,8-PeCDF	J	0.393	pg/g	0.0932	2.17
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.927	pg/g	0.150	2.17
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.675	pg/g	0.169	2.17
60851-34-5	2,3,4,6,7,8-HxCDF	JK	1.20	pg/g	0.173	2.17
72918-21-9	1,2,3,7,8,9-HxCDF	U	.231	pg/g	0.231	2.17
67562-39-4	1,2,3,4,6,7,8-HpCDF		77.5	pg/g	0.296	2.17
55673-89-7	1,2,3,4,7,8,9-HpCDF		3.31	pg/g	0.567	2.17
39001-02-0	1,2,3,4,5,6,7,8-OCDF		412	pg/g	0.555	4.35
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		7.76	pg/g	0.164	0.435
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs		24.2	pg/g	0.121	2.17
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		171	pg/g	0.365	2.17
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		2190	pg/g	1.29	2.17
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	2.08	pg/g	0.195	0.435
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		4.23	pg/g	0.0567	2.17
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		38.5	pg/g	0.150	2.17
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		289	pg/g	0.296	2.17
	TEQ WHO2005 ND=0 with EMPCs		15.0	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		15.0	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		154	174	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDD		149	174	pg/g	86	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		161	174	pg/g	93	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		153	174	pg/g	88	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		162	174	pg/g	93	(23%-140%)
13C-OCDD		380	348	pg/g	109	(17%-157%)
13C-2,3,7,8-TCDF		153	174	pg/g	88	(25%-164%)
13C-1,2,3,7,8-PeCDF		145	174	pg/g	83	(24%-185%)
13C-2,3,4,7,8-PeCDF		164	174	pg/g	94	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		180	174	pg/g	104	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		156	174	pg/g	90	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		164	174	pg/g	94	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		166	174	pg/g	95	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		167	174	pg/g	96	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073003	Date Collected: 09/24/2009 13:42	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 7
Client ID: HZET0702S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 06:07	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-2		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.36 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			152	174	pg/g	87
37Cl-2,3,7,8-TCDD			14.3	17.4	pg/g	82

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073003	Date Collected: 09/24/2009 13:42	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 7
Client ID: HZET0702S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/03/2009 11:56	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-11		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.36 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF		0.555	pg/g	0.134	0.435

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073004	Date Collected: 09/24/2009 13:45	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 5
Client ID: HZET0703S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 06:55	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-3		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.09 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.116	pg/g	0.116	0.435
40321-76-4	1,2,3,7,8-PeCDD	U	.104	pg/g	0.104	2.18
39227-28-6	1,2,3,4,7,8-HxCDD	U	.149	pg/g	0.149	2.18
57653-85-7	1,2,3,6,7,8-HxCDD	U	.169	pg/g	0.169	2.18
19408-74-3	1,2,3,7,8,9-HxCDD	U	.167	pg/g	0.167	2.18
35822-46-9	1,2,3,4,6,7,8-HpCDD		4.22	pg/g	0.228	2.18
3268-87-9	1,2,3,4,5,6,7,8-OCDD		46.8	pg/g	0.432	4.35
51207-31-9	2,3,7,8-TCDF	J	0.240	pg/g	0.143	0.435
57117-41-6	1,2,3,7,8-PeCDF	U	.0858	pg/g	0.0858	2.18
57117-31-4	2,3,4,7,8-PeCDF	JK	0.118	pg/g	0.0778	2.18
70648-26-9	1,2,3,4,7,8-HxCDF	U	.0888	pg/g	0.0888	2.18
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.120	pg/g	0.0951	2.18
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.106	pg/g	0.0949	2.18
72918-21-9	1,2,3,7,8,9-HxCDF	U	.132	pg/g	0.132	2.18
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.583	pg/g	0.0916	2.18
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.168	pg/g	0.168	2.18
39001-02-0	1,2,3,4,5,6,7,8-OCDF	JK	2.77	pg/g	0.477	4.35
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.116	pg/g	0.116	0.435
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.104	pg/g	0.104	2.18
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	0.905	pg/g	0.149	2.18
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		13.8	pg/g	0.228	2.18
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.439	pg/g	0.143	0.435
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.118	pg/g	0.0487	2.18
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.630	pg/g	0.0888	2.18
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	1.66	pg/g	0.0916	2.18
	TEQ WHO2005 ND=0 with EMPCs		0.145	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.292	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		156	174	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDD		160	174	pg/g	92	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		162	174	pg/g	93	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		161	174	pg/g	92	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		150	174	pg/g	86	(23%-140%)
13C-OCDD		239	348	pg/g	69	(17%-157%)
13C-2,3,7,8-TCDF		154	174	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		152	174	pg/g	87	(24%-185%)
13C-2,3,4,7,8-PeCDF		181	174	pg/g	104	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		179	174	pg/g	103	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		154	174	pg/g	89	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		168	174	pg/g	97	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		164	174	pg/g	94	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		162	174	pg/g	93	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073004	Date Collected: 09/24/2009 13:45	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 5
Client ID: HZET0703S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 06:55	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-3		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.09 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		150	174	pg/g	86	(26%-138%)
37Cl-2,3,7,8-TCDD		14.7	17.4	pg/g	84	(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073004	Date Collected: 09/24/2009 13:45	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 5
Client ID: HZET0703S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/03/2009 12:18	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-12		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.09 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.245	pg/g	0.122	0.435

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
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Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073005	Date Collected: 09/24/2009 13:47	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 1.7
Client ID: HZET0704S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 07:43	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-4		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.04 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.103	pg/g	0.103	0.423
40321-76-4	1,2,3,7,8-PeCDD	J	0.176	pg/g	0.129	2.11
39227-28-6	1,2,3,4,7,8-HxCDD	J	1.13	pg/g	0.153	2.11
57653-85-7	1,2,3,6,7,8-HxCDD	J	0.365	pg/g	0.181	2.11
19408-74-3	1,2,3,7,8,9-HxCDD	J	0.875	pg/g	0.174	2.11
35822-46-9	1,2,3,4,6,7,8-HpCDD		29.5	pg/g	0.495	2.11
3268-87-9	1,2,3,4,5,6,7,8-OCDD		625	pg/g	0.708	4.23
51207-31-9	2,3,7,8-TCDF	J	0.215	pg/g	0.176	0.423
57117-41-6	1,2,3,7,8-PeCDF	U	.0882	pg/g	0.0882	2.11
57117-31-4	2,3,4,7,8-PeCDF	JK	0.152	pg/g	0.0784	2.11
70648-26-9	1,2,3,4,7,8-HxCDF	JK	0.235	pg/g	0.0945	2.11
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.226	pg/g	0.101	2.11
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.206	pg/g	0.103	2.11
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.157	pg/g	0.145	2.11
67562-39-4	1,2,3,4,6,7,8-HpCDF		3.71	pg/g	0.125	2.11
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.25	pg/g	0.250	2.11
39001-02-0	1,2,3,4,5,6,7,8-OCDF		18.1	pg/g	0.439	4.23
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.169	pg/g	0.103	0.423
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.575	pg/g	0.129	2.11
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		8.22	pg/g	0.153	2.11
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		117	pg/g	0.495	2.11
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	BJ	0.392	pg/g	0.176	0.423
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	1.19	pg/g	0.0571	2.11
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		4.49	pg/g	0.0945	2.11
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		11.6	pg/g	0.125	2.11
	TEQ WHO2005 ND=0 with EMPCs		1.09	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		1.14	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		156	169	pg/g	93	(25%-164%)
13C-1,2,3,7,8-PeCDD		156	169	pg/g	92	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		161	169	pg/g	95	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		157	169	pg/g	93	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		152	169	pg/g	90	(23%-140%)
13C-OCDD		253	338	pg/g	75	(17%-157%)
13C-2,3,7,8-TCDF		157	169	pg/g	93	(25%-164%)
13C-1,2,3,7,8-PeCDF		152	169	pg/g	90	(24%-185%)
13C-2,3,4,7,8-PeCDF		179	169	pg/g	106	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		182	169	pg/g	108	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		156	169	pg/g	92	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		169	169	pg/g	100	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		165	169	pg/g	98	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		165	169	pg/g	97	(28%-143%)

**Hi-Res Dioxins/Furans
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Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073005	Date Collected: 09/24/2009 13:47	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 1.7
Client ID: HZET0704S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 07:43	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-4		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.04 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		150	169	pg/g	89	(26%-138%)
37Cl-2,3,7,8-TCDD		14.2	16.9	pg/g	84	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
J Value is estimated
K Estimated Maximum Possible Concentration
U Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073005	Date Collected: 09/24/2009 13:47	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 1.7
Client ID: HZET0704S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/03/2009 12:39	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-13		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.04 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.248	pg/g	0.110	0.423

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073006	Date Collected: 09/24/2009 13:15	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 6.1
Client ID: HZET0705S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 08:31	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-5		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.07 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.112	pg/g	0.112	0.441
40321-76-4	1,2,3,7,8-PeCDD	U	.109	pg/g	0.109	2.21
39227-28-6	1,2,3,4,7,8-HxCDD	JK	0.503	pg/g	0.203	2.21
57653-85-7	1,2,3,6,7,8-HxCDD	U	.224	pg/g	0.224	2.21
19408-74-3	1,2,3,7,8,9-HxCDD	U	.224	pg/g	0.224	2.21
35822-46-9	1,2,3,4,6,7,8-HpCDD		9.36	pg/g	0.422	2.21
3268-87-9	1,2,3,4,5,6,7,8-OCDD		305	pg/g	0.962	4.41
51207-31-9	2,3,7,8-TCDF	JK	0.222	pg/g	0.147	0.441
57117-41-6	1,2,3,7,8-PeCDF	U	.0973	pg/g	0.0973	2.21
57117-31-4	2,3,4,7,8-PeCDF	JK	0.111	pg/g	0.0846	2.21
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.0953	pg/g	0.0893	2.21
57117-44-9	1,2,3,6,7,8-HxCDF	U	.0966	pg/g	0.0966	2.21
60851-34-5	2,3,4,6,7,8-HxCDF	U	.105	pg/g	0.105	2.21
72918-21-9	1,2,3,7,8,9-HxCDF	U	.156	pg/g	0.156	2.21
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	1.15	pg/g	0.141	2.21
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.258	pg/g	0.258	2.21
39001-02-0	1,2,3,4,5,6,7,8-OCDF		5.47	pg/g	1.02	4.41
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.365	pg/g	0.112	0.441
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.109	pg/g	0.109	2.21
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		2.60	pg/g	0.203	2.21
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		54.5	pg/g	0.422	2.21
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	BJ	0.403	pg/g	0.147	0.441
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.464	pg/g	0.0607	2.21
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	1.65	pg/g	0.0893	2.21
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		3.65	pg/g	0.141	2.21
	TEQ WHO2005 ND=0 with EMPCs		0.314	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.467	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		155	177	pg/g	88	(25%-164%)
13C-1,2,3,7,8-PeCDD		143	177	pg/g	81	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		202	177	pg/g	115	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		190	177	pg/g	107	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		152	177	pg/g	86	(23%-140%)
13C-OCDD		181	353	pg/g	51	(17%-157%)
13C-2,3,7,8-TCDF		161	177	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDF		144	177	pg/g	81	(24%-185%)
13C-2,3,4,7,8-PeCDF		156	177	pg/g	88	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		220	177	pg/g	125	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		193	177	pg/g	109	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		192	177	pg/g	109	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		178	177	pg/g	101	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		164	177	pg/g	93	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073006	Date Collected: 09/24/2009 13:15	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 6.1
Client ID: HZET0705S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 08:31	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-5		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.07 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		154	177	pg/g	87	(26%-138%)
37Cl-2,3,7,8-TCDD		14.1	17.7	pg/g	80	(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073006	Date Collected: 09/24/2009 13:15	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 6.1
Client ID: HZET0705S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/03/2009 13:01	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-14		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.07 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.254	pg/g	0.108	0.441

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073007	Date Collected: 09/24/2009 11:25	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 3.7
Client ID: HZET0706S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 09:18	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-6		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 13.2 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.115	pg/g	0.115	0.393
40321-76-4	1,2,3,7,8-PeCDD	JK	0.123	pg/g	0.105	1.97
39227-28-6	1,2,3,4,7,8-HxCDD	J	0.721	pg/g	0.194	1.97
57653-85-7	1,2,3,6,7,8-HxCDD	JK	0.313	pg/g	0.208	1.97
19408-74-3	1,2,3,7,8,9-HxCDD	JK	0.499	pg/g	0.211	1.97
35822-46-9	1,2,3,4,6,7,8-HpCDD		14.7	pg/g	0.444	1.97
3268-87-9	1,2,3,4,5,6,7,8-OCDD		474	pg/g	0.771	3.93
51207-31-9	2,3,7,8-TCDF	J	0.252	pg/g	0.167	0.393
57117-41-6	1,2,3,7,8-PeCDF	U	.0979	pg/g	0.0979	1.97
57117-31-4	2,3,4,7,8-PeCDF	U	.082	pg/g	0.082	1.97
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.104	pg/g	0.0887	1.97
57117-44-9	1,2,3,6,7,8-HxCDF	U	.0955	pg/g	0.0955	1.97
60851-34-5	2,3,4,6,7,8-HxCDF	U	.0979	pg/g	0.0979	1.97
72918-21-9	1,2,3,7,8,9-HxCDF	U	.138	pg/g	0.138	1.97
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	1.50	pg/g	0.149	1.97
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.285	pg/g	0.285	1.97
39001-02-0	1,2,3,4,5,6,7,8-OCDF		7.11	pg/g	0.626	3.93
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.115	pg/g	0.115	0.393
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.304	pg/g	0.105	1.97
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		4.59	pg/g	0.194	1.97
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		78.1	pg/g	0.444	1.97
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.485	pg/g	0.167	0.393
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.165	pg/g	0.0552	1.97
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	1.81	pg/g	0.0887	1.97
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		4.56	pg/g	0.149	1.97
	TEQ WHO2005 ND=0 with EMPCs		0.618	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.708	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		138	157	pg/g	88	(25%-164%)
13C-1,2,3,7,8-PeCDD		143	157	pg/g	91	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		150	157	pg/g	95	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		145	157	pg/g	92	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		133	157	pg/g	84	(23%-140%)
13C-OCDD		217	315	pg/g	69	(17%-157%)
13C-2,3,7,8-TCDF		140	157	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		136	157	pg/g	87	(24%-185%)
13C-2,3,4,7,8-PeCDF		161	157	pg/g	102	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		172	157	pg/g	109	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		149	157	pg/g	95	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		158	157	pg/g	100	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		152	157	pg/g	97	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		150	157	pg/g	95	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073007	Date Collected: 09/24/2009 11:25	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 3.7
Client ID: HZET0706S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 09:18	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-6		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 13.2 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		134	157	pg/g	85	(26%-138%)
37Cl-2,3,7,8-TCDD		13.5	15.7	pg/g	86	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073007	Date Collected: 09/24/2009 11:25	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 3.7
Client ID: HZET0706S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/03/2009 13:22	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-15		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 13.2 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.304	pg/g	0.104	0.393

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073008	Date Collected: 09/24/2009 11:10	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 1.5
Client ID: HZET0707S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 10:06	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-7		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.68 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.119	pg/g	0.119	0.400
40321-76-4	1,2,3,7,8-PeCDD	U	.093	pg/g	0.093	2.00
39227-28-6	1,2,3,4,7,8-HxCDD	U	.15	pg/g	0.150	2.00
57653-85-7	1,2,3,6,7,8-HxCDD	U	.165	pg/g	0.165	2.00
19408-74-3	1,2,3,7,8,9-HxCDD	U	.165	pg/g	0.165	2.00
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	0.951	pg/g	0.275	2.00
3268-87-9	1,2,3,4,5,6,7,8-OCDD		17.8	pg/g	1.35	4.00
51207-31-9	2,3,7,8-TCDF	J	0.221	pg/g	0.176	0.400
57117-41-6	1,2,3,7,8-PeCDF	U	.101	pg/g	0.101	2.00
57117-31-4	2,3,4,7,8-PeCDF	U	.0896	pg/g	0.0896	2.00
70648-26-9	1,2,3,4,7,8-HxCDF	U	.0943	pg/g	0.0943	2.00
57117-44-9	1,2,3,6,7,8-HxCDF	U	.1	pg/g	0.100	2.00
60851-34-5	2,3,4,6,7,8-HxCDF	U	.104	pg/g	0.104	2.00
72918-21-9	1,2,3,7,8,9-HxCDF	U	.144	pg/g	0.144	2.00
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	0.202	pg/g	0.129	2.00
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.253	pg/g	0.253	2.00
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	.509	pg/g	0.509	4.00
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.119	pg/g	0.119	0.400
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.093	pg/g	0.093	2.00
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.15	pg/g	0.150	2.00
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		3.84	pg/g	0.275	2.00
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	BJ	0.221	pg/g	0.176	0.400
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.134	pg/g	0.0607	2.00
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.157	pg/g	0.0943	2.00
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.387	pg/g	0.129	2.00
	TEQ WHO2005 ND=0 with EMPCs		0.039	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.207	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		143	160	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDD		147	160	pg/g	92	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		153	160	pg/g	96	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		150	160	pg/g	94	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		135	160	pg/g	84	(23%-140%)
13C-OCDD		206	320	pg/g	64	(17%-157%)
13C-2,3,7,8-TCDF		146	160	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDF		142	160	pg/g	89	(24%-185%)
13C-2,3,4,7,8-PeCDF		164	160	pg/g	103	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		171	160	pg/g	107	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		152	160	pg/g	95	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		160	160	pg/g	100	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		156	160	pg/g	98	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		152	160	pg/g	95	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073008	Date Collected: 09/24/2009 11:10	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 1.5
Client ID: HZET0707S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 10:06	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-7		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.68 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			136	160	pg/g	85 (26%-138%)
37Cl-2,3,7,8-TCDD			13.5	16.0	pg/g	84 (35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073008	Date Collected: 09/24/2009 11:10	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 1.5
Client ID: HZET0707S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/03/2009 13:44	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-16		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.68 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.234	pg/g	0.107	0.400

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073009	Date Collected: 09/24/2009 11:05	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 4.1
Client ID: HZET0708S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 10:54	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-8		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.39 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.138	pg/g	0.138	0.421
40321-76-4	1,2,3,7,8-PeCDD	U	.116	pg/g	0.116	2.10
39227-28-6	1,2,3,4,7,8-HxCDD	U	.159	pg/g	0.159	2.10
57653-85-7	1,2,3,6,7,8-HxCDD	U	.17	pg/g	0.170	2.10
19408-74-3	1,2,3,7,8,9-HxCDD	U	.173	pg/g	0.173	2.10
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	.273	pg/g	0.273	2.10
3268-87-9	1,2,3,4,5,6,7,8-OCDD	J	1.78	pg/g	0.636	4.21
51207-31-9	2,3,7,8-TCDF	JK	0.288	pg/g	0.168	0.421
57117-41-6	1,2,3,7,8-PeCDF	U	.112	pg/g	0.112	2.10
57117-31-4	2,3,4,7,8-PeCDF	U	.0884	pg/g	0.0884	2.10
70648-26-9	1,2,3,4,7,8-HxCDF	U	.0953	pg/g	0.0953	2.10
57117-44-9	1,2,3,6,7,8-HxCDF	U	.104	pg/g	0.104	2.10
60851-34-5	2,3,4,6,7,8-HxCDF	U	.101	pg/g	0.101	2.10
72918-21-9	1,2,3,7,8,9-HxCDF	U	.151	pg/g	0.151	2.10
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.133	pg/g	0.133	2.10
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.258	pg/g	0.258	2.10
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	.518	pg/g	0.518	4.21
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.138	pg/g	0.138	0.421
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.116	pg/g	0.116	2.10
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.159	pg/g	0.159	2.10
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	0.355	pg/g	0.273	2.10
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.537	pg/g	0.168	0.421
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	.0672	pg/g	0.0672	2.10
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	.0953	pg/g	0.0953	2.10
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	.133	pg/g	0.133	2.10
	TEQ WHO2005 ND=0 with EMPCs		0.0293	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.223	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		146	168	pg/g	87	(25%-164%)
13C-1,2,3,7,8-PeCDD		160	168	pg/g	95	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		161	168	pg/g	96	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		156	168	pg/g	93	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		144	168	pg/g	86	(23%-140%)
13C-OCDD		216	337	pg/g	64	(17%-157%)
13C-2,3,7,8-TCDF		148	168	pg/g	88	(25%-164%)
13C-1,2,3,7,8-PeCDF		143	168	pg/g	85	(24%-185%)
13C-2,3,4,7,8-PeCDF		182	168	pg/g	108	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		178	168	pg/g	106	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		156	168	pg/g	93	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		165	168	pg/g	98	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		159	168	pg/g	95	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		156	168	pg/g	93	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073009	Date Collected: 09/24/2009 11:05	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 4.1
Client ID: HZET0708S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 10:54	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-8		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.39 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		141	168	pg/g	84	(26%-138%)
37Cl-2,3,7,8-TCDD		13.8	16.8	pg/g	82	(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073009	Date Collected: 09/24/2009 11:05	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 4.1
Client ID: HZET0708S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/03/2009 14:05	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-17		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.39 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.236	pg/g	0.121	0.421

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073010	Date Collected: 09/24/2009 11:00	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: .8
Client ID: HZET0709S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 09/30/2009 23:36	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b-9		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 10.35 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.128	pg/g	0.128	0.487
40321-76-4	1,2,3,7,8-PeCDD	JK	0.396	pg/g	0.125	2.44
39227-28-6	1,2,3,4,7,8-HxCDD	J	1.88	pg/g	0.152	2.44
57653-85-7	1,2,3,6,7,8-HxCDD	J	0.727	pg/g	0.162	2.44
19408-74-3	1,2,3,7,8,9-HxCDD	J	1.32	pg/g	0.165	2.44
35822-46-9	1,2,3,4,6,7,8-HpCDD		68.6	pg/g	0.417	2.44
3268-87-9	1,2,3,4,5,6,7,8-OCDD		799	pg/g	0.561	4.87
51207-31-9	2,3,7,8-TCDF		0.516	pg/g	0.226	0.487
57117-41-6	1,2,3,7,8-PeCDF	J	0.427	pg/g	0.135	2.44
57117-31-4	2,3,4,7,8-PeCDF	JK	0.495	pg/g	0.149	2.44
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.561	pg/g	0.100	2.44
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.563	pg/g	0.103	2.44
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.575	pg/g	0.108	2.44
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.323	pg/g	0.139	2.44
67562-39-4	1,2,3,4,6,7,8-HpCDF		10.0	pg/g	0.133	2.44
55673-89-7	1,2,3,4,7,8,9-HpCDF	J	0.674	pg/g	0.247	2.44
39001-02-0	1,2,3,4,5,6,7,8-OCDF		42.3	pg/g	0.366	4.87
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.128	pg/g	0.128	0.487
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	2.11	pg/g	0.125	2.44
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		18.2	pg/g	0.152	2.44
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		227	pg/g	0.417	2.44
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	2.65	pg/g	0.226	0.487
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		5.22	pg/g	0.0579	2.44
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		11.8	pg/g	0.100	2.44
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		32.6	pg/g	0.133	2.44
	TEQ WHO2005 ND=0 with EMPCs		2.25	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		2.31	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		176	195	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDD		171	195	pg/g	88	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		183	195	pg/g	94	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		171	195	pg/g	88	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		179	195	pg/g	92	(23%-140%)
13C-OCDD		338	390	pg/g	87	(17%-157%)
13C-2,3,7,8-TCDF		174	195	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		176	195	pg/g	90	(24%-185%)
13C-2,3,4,7,8-PeCDF		175	195	pg/g	90	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		188	195	pg/g	97	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		166	195	pg/g	85	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		180	195	pg/g	93	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		180	195	pg/g	92	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		186	195	pg/g	95	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073010	Date Collected: 09/24/2009 11:00	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: .8
Client ID: HZET0709S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 09/30/2009 23:36	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b-9		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 10.35 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			175	195	pg/g	90
37Cl-2,3,7,8-TCDD			17.0	19.5	pg/g	87

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073010	Date Collected: 09/24/2009 11:00	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: .8
Client ID: HZET0709S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/03/2009 14:27	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-18		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 10.35 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.359	pg/g	0.148	0.487

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073011	Date Collected: 09/24/2009 10:55	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 4.2
Client ID: HZET0711S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/01/2009 00:24	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b-10		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 10.68 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.112	pg/g	0.112	0.489
40321-76-4	1,2,3,7,8-PeCDD	U	.093	pg/g	0.093	2.44
39227-28-6	1,2,3,4,7,8-HxCDD	JK	0.500	pg/g	0.160	2.44
57653-85-7	1,2,3,6,7,8-HxCDD	U	.182	pg/g	0.182	2.44
19408-74-3	1,2,3,7,8,9-HxCDD	J	0.633	pg/g	0.179	2.44
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	2.11	pg/g	0.191	2.44
3268-87-9	1,2,3,4,5,6,7,8-OCDD		21.4	pg/g	0.352	4.89
51207-31-9	2,3,7,8-TCDF	J	0.297	pg/g	0.133	0.489
57117-41-6	1,2,3,7,8-PeCDF	U	.0932	pg/g	0.0932	2.44
57117-31-4	2,3,4,7,8-PeCDF	U	.0901	pg/g	0.0901	2.44
70648-26-9	1,2,3,4,7,8-HxCDF	U	.0811	pg/g	0.0811	2.44
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.561	pg/g	0.0801	2.44
60851-34-5	2,3,4,6,7,8-HxCDF	U	.0813	pg/g	0.0813	2.44
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.227	pg/g	0.117	2.44
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.338	pg/g	0.104	2.44
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.183	pg/g	0.183	2.44
39001-02-0	1,2,3,4,5,6,7,8-OCDF	JK	0.825	pg/g	0.334	4.89
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.112	pg/g	0.112	0.489
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.093	pg/g	0.093	2.44
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	1.59	pg/g	0.160	2.44
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		5.99	pg/g	0.191	2.44
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.547	pg/g	0.133	0.489
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	.0555	pg/g	0.0555	2.44
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	1.21	pg/g	0.0801	2.44
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.835	pg/g	0.104	2.44
	TEQ WHO2005 ND=0 with EMPCs		0.253	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.272	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		178	195	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDD		169	195	pg/g	87	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		188	195	pg/g	96	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		175	195	pg/g	90	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		182	195	pg/g	93	(23%-140%)
13C-OCDD		322	391	pg/g	82	(17%-157%)
13C-2,3,7,8-TCDF		177	195	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDF		172	195	pg/g	88	(24%-185%)
13C-2,3,4,7,8-PeCDF		173	195	pg/g	89	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		191	195	pg/g	98	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		176	195	pg/g	90	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		187	195	pg/g	96	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		177	195	pg/g	90	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		188	195	pg/g	96	(28%-143%)

**Hi-Res Dioxins/Furans
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Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073011	Date Collected: 09/24/2009 10:55	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 4.2
Client ID: HZET0711S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/01/2009 00:24	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b-10		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 10.68 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		178	195	pg/g	91	(26%-138%)
37Cl-2,3,7,8-TCDD		17.0	19.5	pg/g	87	(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073011	Date Collected: 09/24/2009 10:55	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 4.2
Client ID: HZET0711S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/03/2009 14:49	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-19		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 10.68 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.293	pg/g	0.124	0.489

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073012	Date Collected: 09/24/2009 10:40	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 5.7
Client ID: HZET0712S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/01/2009 01:11	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b-11		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 11.34 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.161	pg/g	0.161	0.468
40321-76-4	1,2,3,7,8-PeCDD	U	.103	pg/g	0.103	2.34
39227-28-6	1,2,3,4,7,8-HxCDD	U	.132	pg/g	0.132	2.34
57653-85-7	1,2,3,6,7,8-HxCDD	U	.148	pg/g	0.148	2.34
19408-74-3	1,2,3,7,8,9-HxCDD	U	.147	pg/g	0.147	2.34
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	0.325	pg/g	0.176	2.34
3268-87-9	1,2,3,4,5,6,7,8-OCDD	J	2.64	pg/g	0.380	4.68
51207-31-9	2,3,7,8-TCDF	J	0.325	pg/g	0.149	0.468
57117-41-6	1,2,3,7,8-PeCDF	U	.0845	pg/g	0.0845	2.34
57117-31-4	2,3,4,7,8-PeCDF	U	.0845	pg/g	0.0845	2.34
70648-26-9	1,2,3,4,7,8-HxCDF	U	.0864	pg/g	0.0864	2.34
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.0898	pg/g	0.0851	2.34
60851-34-5	2,3,4,6,7,8-HxCDF	U	.0911	pg/g	0.0911	2.34
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.127	pg/g	0.123	2.34
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	0.185	pg/g	0.0948	2.34
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.174	pg/g	0.174	2.34
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	.367	pg/g	0.367	4.68
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.161	pg/g	0.161	0.468
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.103	pg/g	0.103	2.34
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.132	pg/g	0.132	2.34
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	0.739	pg/g	0.176	2.34
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.595	pg/g	0.149	0.468
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	.0578	pg/g	0.0578	2.34
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.327	pg/g	0.0851	2.34
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.185	pg/g	0.0948	2.34
	TEQ WHO2005 ND=0 with EMPCs		0.0601	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.0969	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		162	187	pg/g	87	(25%-164%)
13C-1,2,3,7,8-PeCDD		148	187	pg/g	79	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		182	187	pg/g	98	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		172	187	pg/g	92	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		174	187	pg/g	93	(23%-140%)
13C-OCDD		283	374	pg/g	76	(17%-157%)
13C-2,3,7,8-TCDF		168	187	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDF		154	187	pg/g	82	(24%-185%)
13C-2,3,4,7,8-PeCDF		156	187	pg/g	83	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		186	187	pg/g	99	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		169	187	pg/g	91	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		180	187	pg/g	96	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		173	187	pg/g	92	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		178	187	pg/g	95	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073012	Date Collected: 09/24/2009 10:40	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 5.7
Client ID: HZET0712S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/01/2009 01:11	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b-11		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 11.34 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		170	187	pg/g	91	(26%-138%)
37Cl-2,3,7,8-TCDD		15.7	18.7	pg/g	84	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073012	Date Collected: 09/24/2009 10:40	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 5.7
Client ID: HZET0712S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/03/2009 15:10	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-20		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 11.34 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.340	pg/g	0.106	0.468

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073
Lab Sample ID: 1073013
Client Sample: 1613 Soil
Client ID: HZET0713S001
Batch ID: 2294
Run Date: 10/01/2009 01:59
Data File: b30sep09b-12
Prep Batch: 2252
Prep Date: 28-SEP-09 15:00:00

Client: BOEN001
Date Collected: 09/24/2009 10:35
Date Received: 09/26/2009 10:10
Method: EPA Method 1613B
Analyst: HMP
Prep Method: SW846 3540C
Aliquot: 10.86 g

Project: BOEN00309
Matrix: SOIL
%Moisture: 5.1
Prep Basis: Dry Weight
Instrument: HRP763
Dilution: 1

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.104	pg/g	0.104	0.485
40321-76-4	1,2,3,7,8-PeCDD	U	.0937	pg/g	0.0937	2.42
39227-28-6	1,2,3,4,7,8-HxCDD	U	.127	pg/g	0.127	2.42
57653-85-7	1,2,3,6,7,8-HxCDD	U	.149	pg/g	0.149	2.42
19408-74-3	1,2,3,7,8,9-HxCDD	U	.145	pg/g	0.145	2.42
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	0.219	pg/g	0.196	2.42
3268-87-9	1,2,3,4,5,6,7,8-OCDD	J	1.42	pg/g	0.518	4.85
51207-31-9	2,3,7,8-TCDF	J	0.252	pg/g	0.143	0.485
57117-41-6	1,2,3,7,8-PeCDF	U	.0846	pg/g	0.0846	2.42
57117-31-4	2,3,4,7,8-PeCDF	J	0.0931	pg/g	0.0873	2.42
70648-26-9	1,2,3,4,7,8-HxCDF	U	.077	pg/g	0.077	2.42
57117-44-9	1,2,3,6,7,8-HxCDF	U	.0832	pg/g	0.0832	2.42
60851-34-5	2,3,4,6,7,8-HxCDF	U	.0865	pg/g	0.0865	2.42
72918-21-9	1,2,3,7,8,9-HxCDF	U	.125	pg/g	0.125	2.42
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.173	pg/g	0.0964	2.42
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.174	pg/g	0.174	2.42
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	.334	pg/g	0.334	4.85
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.153	pg/g	0.104	0.485
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.0937	pg/g	0.0937	2.42
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.127	pg/g	0.127	2.42
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	0.456	pg/g	0.196	2.42
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	BJ	0.468	pg/g	0.143	0.485
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.0931	pg/g	0.0846	2.42
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	.077	pg/g	0.077	2.42
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.173	pg/g	0.0964	2.42
	TEQ WHO2005 ND=0 with EMPCs		0.0575	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.0833	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		172	194	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDD		164	194	pg/g	84	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		180	194	pg/g	93	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		173	194	pg/g	89	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		175	194	pg/g	90	(23%-140%)
13C-OCDD		296	388	pg/g	76	(17%-157%)
13C-2,3,7,8-TCDF		174	194	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDF		168	194	pg/g	87	(24%-185%)
13C-2,3,4,7,8-PeCDF		170	194	pg/g	87	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		193	194	pg/g	100	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		172	194	pg/g	89	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		183	194	pg/g	94	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		177	194	pg/g	91	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		187	194	pg/g	96	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073013	Date Collected: 09/24/2009 10:35	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 5.1
Client ID: HZET0713S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/01/2009 01:59	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b-12		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 10.86 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			174	194	pg/g	90
37Cl-2,3,7,8-TCDD			16.6	19.4	pg/g	85
						(26%-138%)
						(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073013	Date Collected: 09/24/2009 10:35	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 5.1
Client ID: HZET0713S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/03/2009 15:32	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-21		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 10.86 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.270	pg/g	0.113	0.485

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073
Lab Sample ID: 1073014
Client Sample: 1613 Soil/MS/MSD
Client ID: HZET0714S001
Batch ID: 2275
Run Date: 10/01/2009 11:42
Data File: b30sep09b_2-9
Prep Batch: 2212
Prep Date: 27-SEP-09 15:00:00

Client: BOEN001
Date Collected: 09/24/2009 09:45
Date Received: 09/26/2009 10:10
Method: EPA Method 1613B
Analyst: HMP
Prep Method: SW846 3540C
Aliquot: 12.31 g

Project: BOEN00309
Matrix: SOIL
%Moisture: 9.8
Prep Basis: Dry Weight
Instrument: HRP763
Dilution: 1

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.134	pg/g	0.134	0.451
40321-76-4	1,2,3,7,8-PeCDD	U	.127	pg/g	0.127	2.25
39227-28-6	1,2,3,4,7,8-HxCDD	U	.207	pg/g	0.207	2.25
57653-85-7	1,2,3,6,7,8-HxCDD	U	.213	pg/g	0.213	2.25
19408-74-3	1,2,3,7,8,9-HxCDD	J	0.236	pg/g	0.220	2.25
35822-46-9	1,2,3,4,6,7,8-HpCDD		9.55	pg/g	0.346	2.25
3268-87-9	1,2,3,4,5,6,7,8-OCDD		94.5	pg/g	0.726	4.51
51207-31-9	2,3,7,8-TCDF	JK	0.328	pg/g	0.154	0.451
57117-41-6	1,2,3,7,8-PeCDF	U	.104	pg/g	0.104	2.25
57117-31-4	2,3,4,7,8-PeCDF	U	.0879	pg/g	0.0879	2.25
70648-26-9	1,2,3,4,7,8-HxCDF	U	.142	pg/g	0.142	2.25
57117-44-9	1,2,3,6,7,8-HxCDF	U	.147	pg/g	0.147	2.25
60851-34-5	2,3,4,6,7,8-HxCDF	U	.152	pg/g	0.152	2.25
72918-21-9	1,2,3,7,8,9-HxCDF	U	.209	pg/g	0.209	2.25
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	0.896	pg/g	0.153	2.25
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.292	pg/g	0.292	2.25
39001-02-0	1,2,3,4,5,6,7,8-OCDF	JK	0.784	pg/g	0.562	4.51
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.134	pg/g	0.134	0.451
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.127	pg/g	0.127	2.25
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	1.96	pg/g	0.207	2.25
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		29.1	pg/g	0.346	2.25
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.629	pg/g	0.154	0.451
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.276	pg/g	0.0661	2.25
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	2.03	pg/g	0.142	2.25
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		2.75	pg/g	0.153	2.25
	TEQ WHO2005 ND=0 with EMPCs		0.189	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.390	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		164	180	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDD		167	180	pg/g	93	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		171	180	pg/g	95	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		168	180	pg/g	93	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		148	180	pg/g	82	(23%-140%)
13C-OCDD		217	360	pg/g	60	(17%-157%)
13C-2,3,7,8-TCDF		164	180	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDF		159	180	pg/g	88	(24%-185%)
13C-2,3,4,7,8-PeCDF		193	180	pg/g	107	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		188	180	pg/g	105	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		169	180	pg/g	94	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		176	180	pg/g	98	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		174	180	pg/g	96	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		164	180	pg/g	91	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073014	Date Collected: 09/24/2009 09:45	Matrix: SOIL
Client Sample: 1613 Soil/MS/MSD	Date Received: 09/26/2009 10:10	%Moisture: 9.8
Client ID: HZET0714S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 11:42	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-9		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.31 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			148	180	pg/g	82
37Cl-2,3,7,8-TCDD			15.6	18.0	pg/g	87

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073014	Date Collected: 09/24/2009 09:45	Matrix: SOIL
Client Sample: 1613 Soil/MS/MSD	Date Received: 09/26/2009 10:10	%Moisture: 9.8
Client ID: HZET0714S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/03/2009 15:53	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-22		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.31 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.335	pg/g	0.121	0.451

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073015	Date Collected: 09/24/2009 13:37	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 1.1
Client ID: HZET0715S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/01/2009 02:47	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b-13		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 11.06 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.118	pg/g	0.118	0.457
40321-76-4	1,2,3,7,8-PeCDD	JK	0.265	pg/g	0.165	2.29
39227-28-6	1,2,3,4,7,8-HxCDD	J	1.02	pg/g	0.142	2.29
57653-85-7	1,2,3,6,7,8-HxCDD	J	0.386	pg/g	0.164	2.29
19408-74-3	1,2,3,7,8,9-HxCDD	J	0.808	pg/g	0.160	2.29
35822-46-9	1,2,3,4,6,7,8-HpCDD		29.4	pg/g	0.371	2.29
3268-87-9	1,2,3,4,5,6,7,8-OCDD		408	pg/g	0.611	4.57
51207-31-9	2,3,7,8-TCDF	J	0.399	pg/g	0.229	0.457
57117-41-6	1,2,3,7,8-PeCDF	J	0.247	pg/g	0.159	2.29
57117-31-4	2,3,4,7,8-PeCDF	JK	0.382	pg/g	0.156	2.29
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.366	pg/g	0.102	2.29
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.318	pg/g	0.107	2.29
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.371	pg/g	0.113	2.29
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.254	pg/g	0.146	2.29
67562-39-4	1,2,3,4,6,7,8-HpCDF		4.44	pg/g	0.123	2.29
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.241	pg/g	0.241	2.29
39001-02-0	1,2,3,4,5,6,7,8-OCDF		17.4	pg/g	0.336	4.57
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		0.570	pg/g	0.118	0.457
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	1.73	pg/g	0.165	2.29
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		9.69	pg/g	0.142	2.29
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		104	pg/g	0.371	2.29
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	3.71	pg/g	0.229	0.457
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		4.34	pg/g	0.0574	2.29
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		6.58	pg/g	0.102	2.29
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		13.2	pg/g	0.123	2.29
	TEQ WHO2005 ND=0 with EMPCs		1.25	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		1.25	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		167	183	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDD		152	183	pg/g	83	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		172	183	pg/g	94	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		165	183	pg/g	90	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		165	183	pg/g	90	(23%-140%)
13C-OCDD		286	366	pg/g	78	(17%-157%)
13C-2,3,7,8-TCDF		166	183	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDF		157	183	pg/g	86	(24%-185%)
13C-2,3,4,7,8-PeCDF		159	183	pg/g	87	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		182	183	pg/g	100	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		163	183	pg/g	89	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		174	183	pg/g	95	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		173	183	pg/g	95	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		179	183	pg/g	98	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073015	Date Collected: 09/24/2009 13:37	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 1.1
Client ID: HZET0715S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/01/2009 02:47	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b-13		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 11.06 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			165	183	pg/g	90
37Cl-2,3,7,8-TCDD			15.9	18.3	pg/g	87

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073015	Date Collected: 09/24/2009 13:37	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 1.1
Client ID: HZET0715S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/03/2009 16:58	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-25		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 11.06 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.435	pg/g	0.161	0.457

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073016	Date Collected: 09/24/2009 13:40	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 11.3
Client ID: HZET0716S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/01/2009 03:35	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b-14		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 12.51 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.125	pg/g	0.125	0.451
40321-76-4	1,2,3,7,8-PeCDD	JK	0.458	pg/g	0.187	2.25
39227-28-6	1,2,3,4,7,8-HxCDD	J	1.35	pg/g	0.166	2.25
57653-85-7	1,2,3,6,7,8-HxCDD	J	0.712	pg/g	0.195	2.25
19408-74-3	1,2,3,7,8,9-HxCDD	J	1.04	pg/g	0.189	2.25
35822-46-9	1,2,3,4,6,7,8-HpCDD		47.4	pg/g	0.490	2.25
3268-87-9	1,2,3,4,5,6,7,8-OCDD		569	pg/g	0.685	4.51
51207-31-9	2,3,7,8-TCDF		2.84	pg/g	0.389	0.451
57117-41-6	1,2,3,7,8-PeCDF	J	1.61	pg/g	0.148	2.25
57117-31-4	2,3,4,7,8-PeCDF	J	0.845	pg/g	0.147	2.25
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.970	pg/g	0.182	2.25
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.485	pg/g	0.187	2.25
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.478	pg/g	0.198	2.25
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.279	pg/g	0.265	2.25
67562-39-4	1,2,3,4,6,7,8-HpCDF		7.62	pg/g	0.122	2.25
55673-89-7	1,2,3,4,7,8,9-HpCDF	JK	0.615	pg/g	0.227	2.25
39001-02-0	1,2,3,4,5,6,7,8-OCDF		27.5	pg/g	0.434	4.51
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.431	pg/g	0.125	0.451
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs		2.46	pg/g	0.187	2.25
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		17.3	pg/g	0.166	2.25
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		190	pg/g	0.490	2.25
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs		13.7	pg/g	0.389	0.451
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		12.5	pg/g	0.0618	2.25
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		11.8	pg/g	0.182	2.25
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		24.2	pg/g	0.122	2.25
	TEQ WHO2005 ND=0 with EMPCs		2.31	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		2.31	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		165	180	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDD		153	180	pg/g	85	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		179	180	pg/g	99	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		165	180	pg/g	91	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		162	180	pg/g	90	(23%-140%)
13C-OCDD		282	361	pg/g	78	(17%-157%)
13C-2,3,7,8-TCDF		166	180	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDF		163	180	pg/g	90	(24%-185%)
13C-2,3,4,7,8-PeCDF		159	180	pg/g	88	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		188	180	pg/g	104	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		166	180	pg/g	92	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		175	180	pg/g	97	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		175	180	pg/g	97	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		179	180	pg/g	99	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073016	Date Collected: 09/24/2009 13:40	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 11.3
Client ID: HZET0716S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/01/2009 03:35	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b-14		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 12.51 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			162	180	pg/g	90 (26%-138%)
37Cl-2,3,7,8-TCDD			16.1	18.0	pg/g	89 (35%-197%)

Comments:

- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1073	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1073016	Date Collected: 09/24/2009 13:40	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 11.3
Client ID: HZET0716S001		Prep Basis: Dry Weight
Batch ID: 2294	Method: EPA Method 1613B	
Run Date: 10/03/2009 17:20	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-26		Dilution: 1
Prep Batch: 2252	Prep Method: SW846 3540C	
Prep Date: 28-SEP-09 15:00:00	Aliquot: 12.51 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF		1.49	pg/g	0.162	0.451

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.



March 03, 2010

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

Re: SSFL
Project Number: 1891614.05462
Project Name: ISRA Sampling, August 2009
Work Order: 237938
SDG: 237938

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 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. 4406.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.05462
Chain of Custody: MWHMB20090925_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237938

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237938001

BASIS: Dry Weight

DATE COLLECTED 25-SEP-09

CLIENT ID: HZET0710S001

LEVEL: Low

DATE RECEIVED 26-SEP-09

MATRIX: SOIL

%SOLIDS: 90

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	12.4	mg/kg	EN	0.0699	0.212	0.2	2	MS	RMJ	09/29/09 15:48	090928-1	906674

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906674	906672	SW846 3050B	0.525	g	50	mL	09/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237938

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237938002

BASIS: Dry Weight

DATE COLLECTED 25-SEP-09

CLIENT ID: HZET0717S001

LEVEL: Low

DATE RECEIVED 26-SEP-09

MATRIX: SOIL

%SOLIDS: 91.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	13	mg/kg	EN	0.0691	0.209	0.2	2	MS	RMJ	09/29/09 16:17	090928-1	906674

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
906674	906672	SW846 3050B	0.522	g	50	mL	09/28/09	FGA

Subcontract Data

Dioxins

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 1075	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1075001	Date Collected: 09/25/2009 07:15	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 11
Client ID: HZET0710S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 14:09	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-12		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.31 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.145	pg/g	0.145	0.456
40321-76-4	1,2,3,7,8-PeCDD	J	0.166	pg/g	0.138	2.28
39227-28-6	1,2,3,4,7,8-HxCDD	J	0.788	pg/g	0.193	2.28
57653-85-7	1,2,3,6,7,8-HxCDD	U	.219	pg/g	0.219	2.28
19408-74-3	1,2,3,7,8,9-HxCDD	J	1.19	pg/g	0.215	2.28
35822-46-9	1,2,3,4,6,7,8-HpCDD		4.56	pg/g	0.392	2.28
3268-87-9	1,2,3,4,5,6,7,8-OCDD		45.6	pg/g	0.854	4.56
51207-31-9	2,3,7,8-TCDF	J	0.338	pg/g	0.212	0.456
57117-41-6	1,2,3,7,8-PeCDF	JK	0.203	pg/g	0.104	2.28
57117-31-4	2,3,4,7,8-PeCDF	JK	0.241	pg/g	0.106	2.28
70648-26-9	1,2,3,4,7,8-HxCDF	JK	0.215	pg/g	0.150	2.28
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.569	pg/g	0.161	2.28
60851-34-5	2,3,4,6,7,8-HxCDF	U	.173	pg/g	0.173	2.28
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.431	pg/g	0.237	2.28
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.854	pg/g	0.192	2.28
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.409	pg/g	0.409	2.28
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	2.70	pg/g	0.891	4.56
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		0.161	pg/g	0.145	0.456
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs		0.166	pg/g	0.138	2.28
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		2.99	pg/g	0.193	2.28
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		13.2	pg/g	0.392	2.28
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs		0.635	pg/g	0.212	0.456
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		0.911	pg/g	0.0809	2.28
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		1.80	pg/g	0.150	2.28
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		1.94	pg/g	0.192	2.28
	TEQ WHO2005 ND=0 with EMPCs		0.666	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.760	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		164	183	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDD		148	183	pg/g	81	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		174	183	pg/g	95	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		169	183	pg/g	92	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		135	183	pg/g	74	(23%-140%)
13C-OCDD		203	365	pg/g	56	(17%-157%)
13C-2,3,7,8-TCDF		164	183	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDF		161	183	pg/g	88	(24%-185%)
13C-2,3,4,7,8-PeCDF		163	183	pg/g	89	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		186	183	pg/g	102	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		162	183	pg/g	89	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		173	183	pg/g	95	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		167	183	pg/g	91	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		153	183	pg/g	84	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 2 of 2

SDG Number: 1075	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1075001	Date Collected: 09/25/2009 07:15	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 11
Client ID: HZET0710S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/01/2009 14:09	Analyst: HMP	Instrument: HRP763
Data File: b30sep09b_2-12		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.31 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			127	183	pg/g	69
37Cl-2,3,7,8-TCDD			15.0	18.3	pg/g	82

Comments:

- J** Value is estimated
K Estimated Maximum Possible Concentration
U Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 1075	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1075001	Date Collected: 09/25/2009 07:15	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/26/2009 10:10	%Moisture: 11
Client ID: HZET0710S001		Prep Basis: Dry Weight
Batch ID: 2275	Method: EPA Method 1613B	
Run Date: 10/03/2009 18:47	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a_2-4		Dilution: 1
Prep Batch: 2212	Prep Method: SW846 3540C	
Prep Date: 27-SEP-09 15:00:00	Aliquot: 12.31 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.407	pg/g	0.0955	0.456

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 1075
Lab Sample ID: 1075002

Client: BOEN001
Date Collected: 09/25/2009 07:25
Date Received: 09/26/2009 10:10

Project: BOEN00309
Matrix: SOIL
%Moisture: 8.9
Prep Basis: Dry Weight

Client ID: HZET0717S001
Batch ID: 2275
Run Date: 10/01/2009 14:56
Data File: b30sep09b_2-13
Prep Batch: 2212
Prep Date: 27-SEP-09 15:00:00

Method: EPA Method 1613B
Analyst: HMP
Prep Method: SW846 3540C
Aliquot: 12.93 g

Instrument: HRP763
Dilution: 1

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.16	pg/g	0.160	0.425
40321-76-4	1,2,3,7,8-PeCDD	J	0.486	pg/g	0.127	2.12
39227-28-6	1,2,3,4,7,8-HxCDD		5.39	pg/g	0.236	2.12
57653-85-7	1,2,3,6,7,8-HxCDD	J	1.97	pg/g	0.294	2.12
19408-74-3	1,2,3,7,8,9-HxCDD		3.32	pg/g	0.277	2.12
35822-46-9	1,2,3,4,6,7,8-HpCDD		294	pg/g	1.06	2.12
3268-87-9	1,2,3,4,5,6,7,8-OCDD		3050	pg/g	1.06	4.25
51207-31-9	2,3,7,8-TCDF	J	0.385	pg/g	0.209	0.425
57117-41-6	1,2,3,7,8-PeCDF	JK	0.224	pg/g	0.103	2.12
57117-31-4	2,3,4,7,8-PeCDF	JK	0.301	pg/g	0.119	2.12
70648-26-9	1,2,3,4,7,8-HxCDF	JK	0.662	pg/g	0.158	2.12
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.511	pg/g	0.175	2.12
60851-34-5	2,3,4,6,7,8-HxCDF	JK	0.693	pg/g	0.150	2.12
72918-21-9	1,2,3,7,8,9-HxCDF	U	.197	pg/g	0.197	2.12
67562-39-4	1,2,3,4,6,7,8-HpCDF		41.2	pg/g	0.243	2.12
55673-89-7	1,2,3,4,7,8,9-HpCDF	J	1.97	pg/g	0.547	2.12
39001-02-0	1,2,3,4,5,6,7,8-OCDF		201	pg/g	0.557	4.25
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		0.742	pg/g	0.160	0.425
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs		3.18	pg/g	0.127	2.12
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		44.2	pg/g	0.236	2.12
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		905	pg/g	1.06	2.12
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs		1.63	pg/g	0.209	0.425
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		3.56	pg/g	0.0593	2.12
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		20.5	pg/g	0.150	2.12
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		151	pg/g	0.243	2.12
	TEQ WHO2005 ND=0 with EMPCs		6.22	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		6.31	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		159	170	pg/g	94	(25%-164%)
13C-1,2,3,7,8-PeCDD		141	170	pg/g	83	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		163	170	pg/g	96	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		143	170	pg/g	84	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		103	170	pg/g	61	(23%-140%)
13C-OCDD		215	340	pg/g	63	(17%-157%)
13C-2,3,7,8-TCDF		147	170	pg/g	87	(25%-164%)
13C-1,2,3,7,8-PeCDF		175	170	pg/g	103	(24%-185%)
13C-2,3,4,7,8-PeCDF		158	170	pg/g	93	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		146	170	pg/g	86	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		122	170	pg/g	72	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		152	170	pg/g	89	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		156	170	pg/g	92	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		130	170	pg/g	77	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 2 of 2

SDG Number: 1075
Lab Sample ID: 1075002

Client: BOEN001
Date Collected: 09/25/2009 07:25
Date Received: 09/26/2009 10:10

Project: BOEN00309
Matrix: SOIL
%Moisture: 8.9

Client ID: HZET0717S001
Batch ID: 2275
Run Date: 10/01/2009 14:56
Data File: b30sep09b_2-13
Prep Batch: 2212
Prep Date: 27-SEP-09 15:00:00

Method: EPA Method 1613B
Analyst: HMP
Prep Method: SW846 3540C
Aliquot: 12.93 g

Prep Basis: Dry Weight
Instrument: HRP763
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		93.9	170	pg/g	55	(26%-138%)
37Cl-2,3,7,8-TCDD		16.1	17.0	pg/g	95	(35%-197%)

Comments:

- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 1075
Lab Sample ID: 1075002

Client: BOEN001
Date Collected: 09/25/2009 07:25
Date Received: 09/26/2009 10:10

Project: BOEN00309
Matrix: SOIL
%Moisture: 8.9
Prep Basis: Dry Weight

Client ID: HZET0717S001
Batch ID: 2275
Run Date: 10/03/2009 19:09
Data File: b03oct09a_2-5
Prep Batch: 2212
Prep Date: 27-SEP-09 15:00:00

Method: EPA Method 1613B
Analyst: HMP
Prep Method: SW846 3540C
Aliquot: 12.93 g

Instrument: HRP763
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF		0.438	pg/g	0.104	0.425

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.



March 03, 2010

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

Re: SSFL
Project Number: 1891614.05462
Project Name: ISRA Sampling, August 2009
Work Order: 238077
SDG: 238077

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 30, 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. 4406.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.05462
Chain of Custody: MWHAG20090929_01
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238077

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238077001 **BASIS:** Dry Weight **DATE COLLECTED** 29-SEP-09
CLIENT ID: HZET0104S001 **LEVEL:** Low **DATE RECEIVED** 30-SEP-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	0.292	mg/kg		0.0221	0.221	0.2	2	MS	BAJ	10/01/09 14:53	091001-2	907954
7439-92-1	Lead	6.43	mg/kg		0.11	0.441	0.4	2	MS	BAJ	10/01/09 14:53	091001-2	907954
7440-66-6	Zinc	52.3	mg/kg		0.441	2.21	5	2	MS	BAJ	10/01/09 14:53	091001-2	907954

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
907954	907953	SW846 3050B	0.504	g	50	mL	09/30/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238077

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238077002

BASIS: Dry Weight

DATE COLLECTED 29-SEP-09

CLIENT ID: HZET0105S001

LEVEL: Low

DATE RECEIVED 30-SEP-09

MATRIX: SOIL

%SOLIDS: 97.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.0723	mg/kg	J	0.0203	0.203	0.2	2	MS	BAJ	10/01/09 15:33	091001-2	907954
7439-92-1	Lead	5.41	mg/kg		0.102	0.406	0.4	2	MS	BAJ	10/01/09 15:33	091001-2	907954
7440-66-6	Zinc	45	mg/kg		0.406	2.03	5	2	MS	BAJ	10/01/09 15:33	091001-2	907954

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
907954	907953	SW846 3050B	0.506	g	50	mL	09/30/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238077

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238077003

BASIS: Dry Weight

DATE COLLECTED 29-SEP-09

CLIENT ID: HZET0230S001

LEVEL: Low

DATE RECEIVED 30-SEP-09

MATRIX: SOIL

%SOLIDS: 98.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	4.7	mg/kg		0.1	0.401	0.4	2	MS	BAJ	10/01/09 15:39	091001-2	907954

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
907954	907953	SW846 3050B	0.506	g	50	mL	09/30/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238077

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238077004

BASIS: Dry Weight

DATE COLLECTED 29-SEP-09

CLIENT ID: HZET0231S001

LEVEL: Low

DATE RECEIVED 30-SEP-09

MATRIX: SOIL

%SOLIDS: 98.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	5.76	mg/kg		0.0988	0.395	0.4	2	MS	BAJ	10/01/09 15:45	091001-2	907954

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
907954	907953	SW846 3050B	0.513	g	50	mL	09/30/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238077

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238077005

BASIS: Dry Weight

DATE COLLECTED 29-SEP-09

CLIENT ID: HZET0232S001

LEVEL: Low

DATE RECEIVED 30-SEP-09

MATRIX: SOIL

%SOLIDS: 98.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	17.9	mg/kg		0.101	0.404	0.4	2	MS	BAJ	10/01/09 15:51	091001-2	907954

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
907954	907953	SW846 3050B	0.502	g	50	mL	09/30/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238077

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238077006

BASIS: Dry Weight

DATE COLLECTED 29-SEP-09

CLIENT ID: HZET0233S001

LEVEL: Low

DATE RECEIVED 30-SEP-09

MATRIX: SOIL

%SOLIDS: 97.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	7.92	mg/kg		0.101	0.402	0.4	2	MS	BAJ	10/01/09 15:56	091001-2	907954

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
907954	907953	SW846 3050B	0.512	g	50	mL	09/30/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238077

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238077007

BASIS: Dry Weight

DATE COLLECTED 29-SEP-09

CLIENT ID: HZET0234S001

LEVEL: Low

DATE RECEIVED 30-SEP-09

MATRIX: SOIL

%SOLIDS: 98.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	22.9	mg/kg		0.101	0.402	0.4	2	MS	BAJ	10/01/09 16:02	091001-2	907954

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
907954	907953	SW846 3050B	0.503	g	50	mL	09/30/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238077

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238077008

BASIS: Dry Weight

DATE COLLECTED 29-SEP-09

CLIENT ID: HZET0235S001

LEVEL: Low

DATE RECEIVED 30-SEP-09

MATRIX: SOIL

%SOLIDS: 98.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	4.32	mg/kg		0.101	0.405	0.4	2	MS	BAJ	10/01/09 16:19	091001-2	907954

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
907954	907953	SW846 3050B	0.501	g	50	mL	09/30/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238077

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238077009

BASIS: Dry Weight

DATE COLLECTED 29-SEP-09

CLIENT ID: HZET0236S001

LEVEL: Low

DATE RECEIVED 30-SEP-09

MATRIX: SOIL

%SOLIDS: 98.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	7.18	mg/kg		0.0991	0.396	0.4	2	MS	BAJ	10/01/09 16:25	091001-2	907954

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
907954	907953	SW846 3050B	0.511	g	50	mL	09/30/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238077

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238077010

BASIS: Dry Weight

DATE COLLECTED 29-SEP-09

CLIENT ID: HZET0304S001

LEVEL: Low

DATE RECEIVED 30-SEP-09

MATRIX: SOIL

%SOLIDS: 97.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	11.4	mg/kg		0.328	0.993	0.2	10	MS	BAJ	10/01/09 17:31	091001-2	907954
7439-92-1	Lead	7.35	mg/kg		0.0993	0.397	0.4	2	MS	BAJ	10/01/09 16:31	091001-2	907954

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
907954	907953	SW846 3050B	0.518	g	50	mL	09/30/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238077

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238077011

BASIS: Dry Weight

DATE COLLECTED 29-SEP-09

CLIENT ID: HZET0305S001

LEVEL: Low

DATE RECEIVED 30-SEP-09

MATRIX: SOIL

%SOLIDS: 91.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	14.3	mg/kg		0.359	1.09	0.2	10	MS	BAJ	10/01/09 17:37	091001-2	907954
7439-92-1	Lead	8.31	mg/kg		0.109	0.435	0.4	2	MS	BAJ	10/01/09 16:37	091001-2	907954

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
907954	907953	SW846 3050B	0.501	g	50	mL	09/30/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238077

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238077012

BASIS: Dry Weight

DATE COLLECTED 29-SEP-09

CLIENT ID: HZET0508S001

LEVEL: Low

DATE RECEIVED 30-SEP-09

MATRIX: SOIL

%SOLIDS: 92.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	5.9	mg/kg		0.211	1.06	0.5	2	MS	BAJ	10/01/09 16:42	091001-2	907954
7440-43-9	Cadmium	0.0851	mg/kg	J	0.0211	0.211	0.2	2	MS	BAJ	10/01/09 16:42	091001-2	907954
7440-47-3	Chromium	22.4	mg/kg	N	1.06	3.17	1	10	MS	BAJ	10/01/09 17:43	091001-2	907954
7440-50-8	Copper	11.6	mg/kg		0.348	1.06	0.2	10	MS	BAJ	10/01/09 17:43	091001-2	907954
7439-97-6	Mercury	0.0109	mg/kg	J	0.0041	0.0121	0.01	1	AV	ETL	10/02/09 11:42	100209S2-3	907912
7440-02-0	Nickel	13	mg/kg		0.528	2.11	0.4	10	MS	BAJ	10/01/09 17:43	091001-2	907954
7440-22-4	Silver	0.105	mg/kg	U	0.105	0.523	0.2	1	P	HSC	10/01/09 09:45	100109-1	907951

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
907912	907911	SW846 7471A Prep	0.538	g	30	mL	10/01/09	TXB3
907951	907950	SW846 3050B	0.517	g	50	mL	09/30/09	FGA
907954	907953	SW846 3050B	0.512	g	50	mL	09/30/09	FGA

Subcontract Data

Dioxins

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 1081	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1081001	Date Collected: 09/29/2009 13:20	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/30/2009 10:50	%Moisture: 10.5
Client ID: HZET0104S001		Prep Basis: Dry Weight
Batch ID: 2472	Method: EPA Method 1613B	
Run Date: 10/02/2009 19:13	Analyst: HMP	Instrument: HRP763
Data File: b02oct09a-6		Dilution: 1
Prep Batch: 2372	Prep Method: SW846 3540C	
Prep Date: 01-OCT-09 15:00:00	Aliquot: 12.15 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.147	pg/g	0.147	0.460
40321-76-4	1,2,3,7,8-PeCDD	U	.156	pg/g	0.156	2.30
39227-28-6	1,2,3,4,7,8-HxCDD	U	.234	pg/g	0.234	2.30
57653-85-7	1,2,3,6,7,8-HxCDD	J	0.316	pg/g	0.272	2.30
19408-74-3	1,2,3,7,8,9-HxCDD	U	.265	pg/g	0.265	2.30
35822-46-9	1,2,3,4,6,7,8-HpCDD		4.16	pg/g	0.346	2.30
3268-87-9	1,2,3,4,5,6,7,8-OCDD		55.6	pg/g	0.647	4.60
51207-31-9	2,3,7,8-TCDF	J	0.458	pg/g	0.267	0.460
57117-41-6	1,2,3,7,8-PeCDF	J	0.515	pg/g	0.145	2.30
57117-31-4	2,3,4,7,8-PeCDF	J	0.224	pg/g	0.154	2.30
70648-26-9	1,2,3,4,7,8-HxCDF	JK	0.186	pg/g	0.131	2.30
57117-44-9	1,2,3,6,7,8-HxCDF	U	.141	pg/g	0.141	2.30
60851-34-5	2,3,4,6,7,8-HxCDF	JK	0.180	pg/g	0.140	2.30
72918-21-9	1,2,3,7,8,9-HxCDF	U	.193	pg/g	0.193	2.30
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	0.735	pg/g	0.172	2.30
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.329	pg/g	0.329	2.30
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	1.54	pg/g	0.616	4.60
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.180	pg/g	0.147	0.460
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.186	pg/g	0.156	2.30
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	1.58	pg/g	0.234	2.30
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		13.5	pg/g	0.346	2.30
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs		1.87	pg/g	0.267	0.460
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		2.31	pg/g	0.0791	2.30
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	1.79	pg/g	0.131	2.30
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	1.76	pg/g	0.172	2.30
	TEQ WHO2005 ND=0 with EMPCs		0.263	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.361	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		173	184	pg/g	94	(25%-164%)
13C-1,2,3,7,8-PeCDD		149	184	pg/g	81	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		169	184	pg/g	92	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		169	184	pg/g	92	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		158	184	pg/g	86	(23%-140%)
13C-OCDD		251	368	pg/g	68	(17%-157%)
13C-2,3,7,8-TCDF		170	184	pg/g	93	(25%-164%)
13C-1,2,3,7,8-PeCDF		158	184	pg/g	86	(24%-185%)
13C-2,3,4,7,8-PeCDF		161	184	pg/g	87	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		183	184	pg/g	100	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		164	184	pg/g	89	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		174	184	pg/g	94	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		176	184	pg/g	96	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		174	184	pg/g	95	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1081	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1081001	Date Collected: 09/29/2009 13:20	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/30/2009 10:50	%Moisture: 10.5
Client ID: HZET0104S001		Prep Basis: Dry Weight
Batch ID: 2472	Method: EPA Method 1613B	
Run Date: 10/02/2009 19:13	Analyst: HMP	Instrument: HRP763
Data File: b02oct09a-6		Dilution: 1
Prep Batch: 2372	Prep Method: SW846 3540C	
Prep Date: 01-OCT-09 15:00:00	Aliquot: 12.15 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			162	184	pg/g	88 (26%-138%)
37Cl-2,3,7,8-TCDD			16.6	18.4	pg/g	90 (35%-197%)

Comments:

- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1081	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1081001	Date Collected: 09/29/2009 13:20	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/30/2009 10:50	%Moisture: 10.5
Client ID: HZET0104S001		Prep Basis: Dry Weight
Batch ID: 2472	Method: EPA Method 1613B	
Run Date: 10/03/2009 09:25	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-4		Dilution: 1
Prep Batch: 2372	Prep Method: SW846 3540C	
Prep Date: 01-OCT-09 15:00:00	Aliquot: 12.15 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF		0.831	pg/g	0.133	0.460

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:
J Value is estimated
K Estimated Maximum Possible Concentration
U Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 1081	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1081002	Date Collected: 09/29/2009 13:35	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/30/2009 10:50	%Moisture: 2.9
Client ID: HZET0105S001		Prep Basis: Dry Weight
Batch ID: 2472	Method: EPA Method 1613B	
Run Date: 10/02/2009 20:00	Analyst: HMP	Instrument: HRP763
Data File: b02oct09a-7		Dilution: 1
Prep Batch: 2372	Prep Method: SW846 3540C	
Prep Date: 01-OCT-09 15:00:00	Aliquot: 12.13 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.127	pg/g	0.127	0.424
40321-76-4	1,2,3,7,8-PeCDD	U	.159	pg/g	0.159	2.12
39227-28-6	1,2,3,4,7,8-HxCDD	U	.246	pg/g	0.246	2.12
57653-85-7	1,2,3,6,7,8-HxCDD	U	.277	pg/g	0.277	2.12
19408-74-3	1,2,3,7,8,9-HxCDD	JK	0.328	pg/g	0.273	2.12
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	0.640	pg/g	0.358	2.12
3268-87-9	1,2,3,4,5,6,7,8-OCDD		7.02	pg/g	0.596	4.24
51207-31-9	2,3,7,8-TCDF	JK	0.275	pg/g	0.151	0.424
57117-41-6	1,2,3,7,8-PeCDF	U	.14	pg/g	0.140	2.12
57117-31-4	2,3,4,7,8-PeCDF	U	.141	pg/g	0.141	2.12
70648-26-9	1,2,3,4,7,8-HxCDF	U	.18	pg/g	0.180	2.12
57117-44-9	1,2,3,6,7,8-HxCDF	U	.175	pg/g	0.175	2.12
60851-34-5	2,3,4,6,7,8-HxCDF	U	.18	pg/g	0.180	2.12
72918-21-9	1,2,3,7,8,9-HxCDF	U	.256	pg/g	0.256	2.12
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.214	pg/g	0.214	2.12
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.338	pg/g	0.338	2.12
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	.569	pg/g	0.569	4.24
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.144	pg/g	0.127	0.424
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.159	pg/g	0.159	2.12
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	0.328	pg/g	0.246	2.12
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	1.71	pg/g	0.358	2.12
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs		0.956	pg/g	0.151	0.424
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.131	pg/g	0.0752	2.12
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	.175	pg/g	0.175	2.12
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	.214	pg/g	0.214	2.12
	TEQ WHO2005 ND=0 with EMPCs		0.0688	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.105	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		156	170	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDD		117	170	pg/g	69	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		155	170	pg/g	91	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		154	170	pg/g	91	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		166	170	pg/g	98	(23%-140%)
13C-OCDD		317	339	pg/g	94	(17%-157%)
13C-2,3,7,8-TCDF		155	170	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDF		123	170	pg/g	72	(24%-185%)
13C-2,3,4,7,8-PeCDF		123	170	pg/g	73	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		154	170	pg/g	91	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		151	170	pg/g	89	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		159	170	pg/g	94	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		153	170	pg/g	90	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		165	170	pg/g	97	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1081	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1081002	Date Collected: 09/29/2009 13:35	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/30/2009 10:50	%Moisture: 2.9
Client ID: HZET0105S001		Prep Basis: Dry Weight
Batch ID: 2472	Method: EPA Method 1613B	
Run Date: 10/02/2009 20:00	Analyst: HMP	Instrument: HRP763
Data File: b02oct09a-7		Dilution: 1
Prep Batch: 2372	Prep Method: SW846 3540C	
Prep Date: 01-OCT-09 15:00:00	Aliquot: 12.13 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			175	170	pg/g	103 (26%-138%)
37Cl-2,3,7,8-TCDD			15.0	17.0	pg/g	88 (35%-197%)

Comments:

- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1081	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1081002	Date Collected: 09/29/2009 13:35	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/30/2009 10:50	%Moisture: 2.9
Client ID: HZET0105S001		Prep Basis: Dry Weight
Batch ID: 2472	Method: EPA Method 1613B	
Run Date: 10/03/2009 09:46	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-5		Dilution: 1
Prep Batch: 2372	Prep Method: SW846 3540C	
Prep Date: 01-OCT-09 15:00:00	Aliquot: 12.13 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF		0.426	pg/g	0.177	0.424

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 1081	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1081003	Date Collected: 09/29/2009 08:00	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/30/2009 10:50	%Moisture: 1.9
Client ID: HZET0808S001		Prep Basis: Dry Weight
Batch ID: 2472	Method: EPA Method 1613B	
Run Date: 10/02/2009 20:49	Analyst: HMP	Instrument: HRP763
Data File: b02oct09a-8		Dilution: 1
Prep Batch: 2372	Prep Method: SW846 3540C	
Prep Date: 01-OCT-09 15:00:00	Aliquot: 12.48 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.0971	pg/g	0.0971	0.408
40321-76-4	1,2,3,7,8-PeCDD	U	.106	pg/g	0.106	2.04
39227-28-6	1,2,3,4,7,8-HxCDD	U	.158	pg/g	0.158	2.04
57653-85-7	1,2,3,6,7,8-HxCDD	U	.181	pg/g	0.181	2.04
19408-74-3	1,2,3,7,8,9-HxCDD	U	.178	pg/g	0.178	2.04
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	1.30	pg/g	0.248	2.04
3268-87-9	1,2,3,4,5,6,7,8-OCDD		15.1	pg/g	0.868	4.08
51207-31-9	2,3,7,8-TCDF	J	0.257	pg/g	0.172	0.408
57117-41-6	1,2,3,7,8-PeCDF	J	0.175	pg/g	0.134	2.04
57117-31-4	2,3,4,7,8-PeCDF	U	.142	pg/g	0.142	2.04
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.147	pg/g	0.102	2.04
57117-44-9	1,2,3,6,7,8-HxCDF	U	.104	pg/g	0.104	2.04
60851-34-5	2,3,4,6,7,8-HxCDF	U	.11	pg/g	0.110	2.04
72918-21-9	1,2,3,7,8,9-HxCDF	U	.151	pg/g	0.151	2.04
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	0.247	pg/g	0.129	2.04
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.247	pg/g	0.247	2.04
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	0.936	pg/g	0.591	4.08
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.0971	pg/g	0.0971	0.408
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.106	pg/g	0.106	2.04
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.158	pg/g	0.158	2.04
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		3.56	pg/g	0.248	2.04
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs		0.681	pg/g	0.172	0.408
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	1.10	pg/g	0.0544	2.04
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.724	pg/g	0.102	2.04
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.582	pg/g	0.129	2.04
	TEQ WHO2005 ND=0 with EMPCs		0.0658	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.112	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		156	163	pg/g	96	(25%-164%)
13C-1,2,3,7,8-PeCDD		139	163	pg/g	85	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		150	163	pg/g	92	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		149	163	pg/g	91	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		139	163	pg/g	85	(23%-140%)
13C-OCDD		212	327	pg/g	65	(17%-157%)
13C-2,3,7,8-TCDF		141	163	pg/g	87	(25%-164%)
13C-1,2,3,7,8-PeCDF		142	163	pg/g	87	(24%-185%)
13C-2,3,4,7,8-PeCDF		147	163	pg/g	90	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		152	163	pg/g	93	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		139	163	pg/g	85	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		151	163	pg/g	92	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		146	163	pg/g	90	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		148	163	pg/g	91	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1081	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1081003	Date Collected: 09/29/2009 08:00	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/30/2009 10:50	%Moisture: 1.9
Client ID: HZET0808S001		Prep Basis: Dry Weight
Batch ID: 2472	Method: EPA Method 1613B	
Run Date: 10/02/2009 20:49	Analyst: HMP	Instrument: HRP763
Data File: b02oct09a-8		Dilution: 1
Prep Batch: 2372	Prep Method: SW846 3540C	
Prep Date: 01-OCT-09 15:00:00	Aliquot: 12.48 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			139	163	pg/g	85 (26%-138%)
37Cl-2,3,7,8-TCDD			15.0	16.3	pg/g	92 (35%-197%)

Comments:

- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1081	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1081003	Date Collected: 09/29/2009 08:00	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 09/30/2009 10:50	%Moisture: 1.9
Client ID: HZET0808S001		Prep Basis: Dry Weight
Batch ID: 2472	Method: EPA Method 1613B	
Run Date: 10/03/2009 10:08	Analyst: HMP	Instrument: HRP763
Data File: b03oct09a-6		Dilution: 1
Prep Batch: 2372	Prep Method: SW846 3540C	
Prep Date: 01-OCT-09 15:00:00	Aliquot: 12.48 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	JK	0.274	pg/g	0.145	0.408

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.



March 03, 2010

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

Re: SSFL
Project Number: 1891614.05462
Project Name: ISRA Sampling, August 2009
Work Order: 238180
SDG: 238180

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 01, 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. 4406.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.05462
Chain of Custody: MWHAG20090930_00
Enclosures

GC/MS Semivolatile Analysis

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180001

Client: SSFL001
Date Collected: 09/30/2009 14:45
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Water

Client ID: EBQW2248
Batch ID: 909409
Run Date: 10/06/2009 18:46
Data File: s5j0615.d
Prep Batch: 909408
Prep Date: 10/06/2009 13:08

Method: SW846 8270C Low Level
Analyst: RMB
Inj. Vol: .5 uL
Prep Method: SW846 3510C
Aliquot: 1060 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-009
Instrument: MSD5.I
Dilution: 1
Prep SOP Ref: GL-OA-E-013
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	0.472	ug/L	0.0943	0.472	10.0
83-32-9	Acenaphthene	U	0.472	ug/L	0.146	0.472	10.0
129-00-0	Pyrene	U	0.472	ug/L	0.142	0.472	10.0
91-20-3	Naphthalene	U	0.472	ug/L	0.142	0.472	10.0
91-57-6	2-Methylnaphthalene	U	0.472	ug/L	0.142	0.472	10.0
90-12-0	1-Methylnaphthalene	U	0.472	ug/L	0.142	0.472	10.0
131-11-3	Dimethylphthalate	U	0.472	ug/L	0.142	0.472	10.0
208-96-8	Acenaphthylene	U	0.472	ug/L	0.0943	0.472	10.0
84-66-2	Diethylphthalate	U	0.472	ug/L	0.142	0.472	10.0
86-73-7	Fluorene	U	0.472	ug/L	0.0943	0.472	10.0
85-01-8	Phenanthrene	U	0.472	ug/L	0.0943	0.472	10.0
120-12-7	Anthracene	U	0.472	ug/L	0.0943	0.472	10.0
84-74-2	Di-n-butylphthalate	U	0.472	ug/L	0.142	0.472	10.0
206-44-0	Fluoranthene	U	0.472	ug/L	0.0943	0.472	10.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	0.472	ug/L	0.142	0.472	10.0
56-55-3	Benzo(a)anthracene	U	0.472	ug/L	0.0943	0.472	10.0
218-01-9	Chrysene	U	0.472	ug/L	0.0943	0.472	10.0
117-81-7	bis(2-Ethylhexyl)phthalate	BJ	0.216	ug/L	0.142	0.472	10.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	0.472	ug/L	0.142	0.472	10.0
205-99-2	Benzo(b)fluoranthene	U	0.472	ug/L	0.0943	0.472	10.0
207-08-9	Benzo(k)fluoranthene	U	0.472	ug/L	0.0943	0.472	10.0
50-32-8	Benzo(a)pyrene	U	0.472	ug/L	0.0943	0.472	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.472	ug/L	0.0943	0.472	10.0
53-70-3	Dibenzo(a,h)anthracene	U	0.472	ug/L	0.0943	0.472	20.0
191-24-2	Benzo(ghi)perylene	U	0.472	ug/L	0.0943	0.472	10.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2-Fluorobiphenyl	17.6	23.6	ug/L	74.6	(35%-100%)
Nitrobenzene-d5	18.3	23.6	ug/L	77.8	(40%-112%)
p-Terphenyl-d14	22.1	23.6	ug/L	93.7	(46%-130%)
2,4,6-Tribromophenol	36.1	47.2	ug/L	76.6	(39%-115%)
2-Fluorophenol	15.0	47.2	ug/L	31.7	(25%-92%)
Phenol-d5	8.38	47.2	ug/L	17.8	(15%-73%)

Comments:

B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180002

Client: SSFL001
Date Collected: 09/30/2009 09:35
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 1.5

Client ID: HZBS0081AS001
Batch ID: 909352
Run Date: 10/06/2009 19:32
Data File: s5j0617.d
Prep Batch: 909351
Prep Date: 10/05/2009 23:55

Method: SW846 8270C Low Level
Analyst: RMB
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD5.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	16.9	ug/kg	3.39	16.9	20.0
83-32-9	Acenaphthene	U	16.9	ug/kg	5.65	16.9	20.0
129-00-0	Pyrene	U	16.9	ug/kg	5.31	16.9	20.0
91-20-3	Naphthalene	U	16.9	ug/kg	5.08	16.9	20.0
91-57-6	2-Methylnaphthalene	U	16.9	ug/kg	3.39	16.9	20.0
90-12-0	1-Methylnaphthalene	U	16.9	ug/kg	5.08	16.9	20.0
131-11-3	Dimethylphthalate	U	16.9	ug/kg	5.08	16.9	20.0
208-96-8	Acenaphthylene	U	16.9	ug/kg	5.08	16.9	20.0
84-66-2	Diethylphthalate	U	16.9	ug/kg	5.08	16.9	20.0
86-73-7	Fluorene	U	16.9	ug/kg	5.08	16.9	20.0
85-01-8	Phenanthrene	U	16.9	ug/kg	5.08	16.9	20.0
120-12-7	Anthracene	U	16.9	ug/kg	3.39	16.9	20.0
84-74-2	Di-n-butylphthalate	U	16.9	ug/kg	5.08	16.9	20.0
206-44-0	Fluoranthene	U	16.9	ug/kg	5.08	16.9	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	16.9	ug/kg	5.08	16.9	20.0
56-55-3	Benzo(a)anthracene	U	16.9	ug/kg	5.08	16.9	20.0
218-01-9	Chrysene	U	16.9	ug/kg	5.08	16.9	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	8.99	ug/kg	5.59	16.9	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	16.9	ug/kg	5.08	16.9	20.0
205-99-2	Benzo(b)fluoranthene	U	16.9	ug/kg	5.08	16.9	20.0
207-08-9	Benzo(k)fluoranthene	U	16.9	ug/kg	5.08	16.9	20.0
50-32-8	Benzo(a)pyrene	U	16.9	ug/kg	5.08	16.9	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	16.9	ug/kg	5.08	16.9	20.0
53-70-3	Dibenzo(a,h)anthracene	U	16.9	ug/kg	5.08	16.9	20.0
191-24-2	Benzo(ghi)perylene	U	16.9	ug/kg	5.08	16.9	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1540	1690	ug/kg	91.1	(37%-106%)
2-Fluorophenol	1350	1690	ug/kg	79.8	(35%-96%)
Phenol-d5	1310	1690	ug/kg	77.2	(36%-96%)
2-Fluorobiphenyl	681	846	ug/kg	80.4	(36%-100%)
Nitrobenzene-d5	676	846	ug/kg	79.9	(34%-104%)
p-Terphenyl-d14	802	846	ug/kg	94.8	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180003

Client: SSFL001
Date Collected: 09/30/2009 10:12
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 5.5

Client ID: HZBS0081AS002
Batch ID: 909352
Run Date: 10/06/2009 20:40
Data File: s5j0620.d
Prep Batch: 909351
Prep Date: 10/05/2009 23:55

Method: SW846 8270C Low Level
Analyst: RMB
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD5.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.6	ug/kg	3.53	17.6	20.0
83-32-9	Acenaphthene	U	17.6	ug/kg	5.89	17.6	20.0
129-00-0	Pyrene	U	17.6	ug/kg	5.54	17.6	20.0
91-20-3	Naphthalene	U	17.6	ug/kg	5.29	17.6	20.0
91-57-6	2-Methylnaphthalene	U	17.6	ug/kg	3.53	17.6	20.0
90-12-0	1-Methylnaphthalene	U	17.6	ug/kg	5.29	17.6	20.0
131-11-3	Dimethylphthalate	U	17.6	ug/kg	5.29	17.6	20.0
208-96-8	Acenaphthylene	U	17.6	ug/kg	5.29	17.6	20.0
84-66-2	Diethylphthalate	U	17.6	ug/kg	5.29	17.6	20.0
86-73-7	Fluorene	U	17.6	ug/kg	5.29	17.6	20.0
85-01-8	Phenanthrene	U	17.6	ug/kg	5.29	17.6	20.0
120-12-7	Anthracene	U	17.6	ug/kg	3.53	17.6	20.0
84-74-2	Di-n-butylphthalate	U	17.6	ug/kg	5.29	17.6	20.0
206-44-0	Fluoranthene	U	17.6	ug/kg	5.29	17.6	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.6	ug/kg	5.29	17.6	20.0
56-55-3	Benzo(a)anthracene	U	17.6	ug/kg	5.29	17.6	20.0
218-01-9	Chrysene	U	17.6	ug/kg	5.29	17.6	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	6.84	ug/kg	5.82	17.6	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.6	ug/kg	5.29	17.6	20.0
205-99-2	Benzo(b)fluoranthene	U	17.6	ug/kg	5.29	17.6	20.0
207-08-9	Benzo(k)fluoranthene	U	17.6	ug/kg	5.29	17.6	20.0
50-32-8	Benzo(a)pyrene	U	17.6	ug/kg	5.29	17.6	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.6	ug/kg	5.29	17.6	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.6	ug/kg	5.29	17.6	20.0
191-24-2	Benzo(ghi)perylene	U	17.6	ug/kg	5.29	17.6	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1400	1760	ug/kg	79.1	(37%-106%)
2-Fluorophenol	1300	1760	ug/kg	73.7	(35%-96%)
Phenol-d5	1260	1760	ug/kg	71.3	(36%-96%)
2-Fluorobiphenyl	650	882	ug/kg	73.7	(36%-100%)
Nitrobenzene-d5	672	882	ug/kg	76.2	(34%-104%)
p-Terphenyl-d14	770	882	ug/kg	87.3	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180004

Client: SSFL001
Date Collected: 09/30/2009 11:15
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 2.1

Client ID: HZBS0178S001
Batch ID: 909352
Run Date: 10/06/2009 21:03
Data File: s5j0621.d
Prep Batch: 909351
Prep Date: 10/05/2009 23:55

Method: SW846 8270C Low Level
Analyst: RMB
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD5.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.0	ug/kg	3.40	17.0	20.0
83-32-9	Acenaphthene	U	17.0	ug/kg	5.69	17.0	20.0
129-00-0	Pyrene	U	17.0	ug/kg	5.35	17.0	20.0
91-20-3	Naphthalene	U	17.0	ug/kg	5.11	17.0	20.0
91-57-6	2-Methylnaphthalene	U	17.0	ug/kg	3.40	17.0	20.0
90-12-0	1-Methylnaphthalene	U	17.0	ug/kg	5.11	17.0	20.0
131-11-3	Dimethylphthalate	U	17.0	ug/kg	5.11	17.0	20.0
208-96-8	Acenaphthylene	U	17.0	ug/kg	5.11	17.0	20.0
84-66-2	Diethylphthalate	U	17.0	ug/kg	5.11	17.0	20.0
86-73-7	Fluorene	U	17.0	ug/kg	5.11	17.0	20.0
85-01-8	Phenanthrene	U	17.0	ug/kg	5.11	17.0	20.0
120-12-7	Anthracene	U	17.0	ug/kg	3.40	17.0	20.0
84-74-2	Di-n-butylphthalate	U	17.0	ug/kg	5.11	17.0	20.0
206-44-0	Fluoranthene	U	17.0	ug/kg	5.11	17.0	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.0	ug/kg	5.11	17.0	20.0
56-55-3	Benzo(a)anthracene	U	17.0	ug/kg	5.11	17.0	20.0
218-01-9	Chrysene	U	17.0	ug/kg	5.11	17.0	20.0
117-81-7	bis(2-Ethylhexyl)phthalate		17.8	ug/kg	5.62	17.0	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.0	ug/kg	5.11	17.0	20.0
205-99-2	Benzo(b)fluoranthene	U	17.0	ug/kg	5.11	17.0	20.0
207-08-9	Benzo(k)fluoranthene	U	17.0	ug/kg	5.11	17.0	20.0
50-32-8	Benzo(a)pyrene	U	17.0	ug/kg	5.11	17.0	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.0	ug/kg	5.11	17.0	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.0	ug/kg	5.11	17.0	20.0
191-24-2	Benzo(ghi)perylene	U	17.0	ug/kg	5.11	17.0	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1410	1700	ug/kg	82.8	(37%-106%)
2-Fluorophenol	1250	1700	ug/kg	73.3	(35%-96%)
Phenol-d5	1170	1700	ug/kg	68.4	(36%-96%)
2-Fluorobiphenyl	630	851	ug/kg	74.0	(36%-100%)
Nitrobenzene-d5	653	851	ug/kg	76.7	(34%-104%)
p-Terphenyl-d14	753	851	ug/kg	88.5	(40%-124%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180005

Client: SSFL001
Date Collected: 09/30/2009 11:30
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 5.7

Client ID: HZBS0178S002
Batch ID: 909352
Run Date: 10/06/2009 21:25
Data File: s5j0622.d
Prep Batch: 909351
Prep Date: 10/05/2009 23:55

Method: SW846 8270C Low Level
Analyst: RMB
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.04 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD5.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.7	ug/kg	3.53	17.7	20.0
83-32-9	Acenaphthene	U	17.7	ug/kg	5.90	17.7	20.0
129-00-0	Pyrene	U	17.7	ug/kg	5.54	17.7	20.0
91-20-3	Naphthalene	U	17.7	ug/kg	5.30	17.7	20.0
91-57-6	2-Methylnaphthalene	U	17.7	ug/kg	3.53	17.7	20.0
90-12-0	1-Methylnaphthalene	U	17.7	ug/kg	5.30	17.7	20.0
131-11-3	Dimethylphthalate	U	17.7	ug/kg	5.30	17.7	20.0
208-96-8	Acenaphthylene	U	17.7	ug/kg	5.30	17.7	20.0
84-66-2	Diethylphthalate	U	17.7	ug/kg	5.30	17.7	20.0
86-73-7	Fluorene	U	17.7	ug/kg	5.30	17.7	20.0
85-01-8	Phenanthrene	U	17.7	ug/kg	5.30	17.7	20.0
120-12-7	Anthracene	U	17.7	ug/kg	3.53	17.7	20.0
84-74-2	Di-n-butylphthalate	U	17.7	ug/kg	5.30	17.7	20.0
206-44-0	Fluoranthene	U	17.7	ug/kg	5.30	17.7	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.7	ug/kg	5.30	17.7	20.0
56-55-3	Benzo(a)anthracene	U	17.7	ug/kg	5.30	17.7	20.0
218-01-9	Chrysene	U	17.7	ug/kg	5.30	17.7	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	17.7	ug/kg	5.83	17.7	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.7	ug/kg	5.30	17.7	20.0
205-99-2	Benzo(b)fluoranthene	U	17.7	ug/kg	5.30	17.7	20.0
207-08-9	Benzo(k)fluoranthene	U	17.7	ug/kg	5.30	17.7	20.0
50-32-8	Benzo(a)pyrene	U	17.7	ug/kg	5.30	17.7	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.7	ug/kg	5.30	17.7	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.7	ug/kg	5.30	17.7	20.0
191-24-2	Benzo(ghi)perylene	U	17.7	ug/kg	5.30	17.7	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1410	1770	ug/kg	79.6	(37%-106%)
2-Fluorophenol	1220	1770	ug/kg	68.9	(35%-96%)
Phenol-d5	1220	1770	ug/kg	69.0	(36%-96%)
2-Fluorobiphenyl	610	883	ug/kg	69.0	(36%-100%)
Nitrobenzene-d5	629	883	ug/kg	71.3	(34%-104%)
p-Terphenyl-d14	735	883	ug/kg	83.2	(40%-124%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180006

Client: SSFL001
Date Collected: 09/30/2009 12:40
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 1.8

Client ID: HZBS0179S001
Batch ID: 909352
Run Date: 10/06/2009 21:48
Data File: s5j0623.d
Prep Batch: 909351
Prep Date: 10/05/2009 23:55

Method: SW846 8270C Low Level
Analyst: RMB
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.09 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD5.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	16.9	ug/kg	3.39	16.9	20.0
83-32-9	Acenaphthene	U	16.9	ug/kg	5.65	16.9	20.0
129-00-0	Pyrene	U	16.9	ug/kg	5.32	16.9	20.0
91-20-3	Naphthalene	U	16.9	ug/kg	5.08	16.9	20.0
91-57-6	2-Methylnaphthalene	U	16.9	ug/kg	3.39	16.9	20.0
90-12-0	1-Methylnaphthalene	U	16.9	ug/kg	5.08	16.9	20.0
131-11-3	Dimethylphthalate	U	16.9	ug/kg	5.08	16.9	20.0
208-96-8	Acenaphthylene	U	16.9	ug/kg	5.08	16.9	20.0
84-66-2	Diethylphthalate	U	16.9	ug/kg	5.08	16.9	20.0
86-73-7	Fluorene	U	16.9	ug/kg	5.08	16.9	20.0
85-01-8	Phenanthrene	U	16.9	ug/kg	5.08	16.9	20.0
120-12-7	Anthracene	U	16.9	ug/kg	3.39	16.9	20.0
84-74-2	Di-n-butylphthalate	U	16.9	ug/kg	5.08	16.9	20.0
206-44-0	Fluoranthene	U	16.9	ug/kg	5.08	16.9	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	16.9	ug/kg	5.08	16.9	20.0
56-55-3	Benzo(a)anthracene	U	16.9	ug/kg	5.08	16.9	20.0
218-01-9	Chrysene	U	16.9	ug/kg	5.08	16.9	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	9.15	ug/kg	5.59	16.9	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	16.9	ug/kg	5.08	16.9	20.0
205-99-2	Benzo(b)fluoranthene	U	16.9	ug/kg	5.08	16.9	20.0
207-08-9	Benzo(k)fluoranthene	U	16.9	ug/kg	5.08	16.9	20.0
50-32-8	Benzo(a)pyrene	U	16.9	ug/kg	5.08	16.9	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	16.9	ug/kg	5.08	16.9	20.0
53-70-3	Dibenzo(a,h)anthracene	U	16.9	ug/kg	5.08	16.9	20.0
191-24-2	Benzo(ghi)perylene	U	16.9	ug/kg	5.08	16.9	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1390	1690	ug/kg	82.1	(37%-106%)
2-Fluorophenol	1220	1690	ug/kg	72.2	(35%-96%)
Phenol-d5	1180	1690	ug/kg	69.9	(36%-96%)
2-Fluorobiphenyl	618	846	ug/kg	73.0	(36%-100%)
Nitrobenzene-d5	628	846	ug/kg	74.2	(34%-104%)
p-Terphenyl-d14	703	846	ug/kg	83.1	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180007

Client: SSFL001
Date Collected: 09/30/2009 12:50
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 4.2

Client ID: HZBS0179S002
Batch ID: 909352
Run Date: 10/06/2009 22:11
Data File: s5j0624.d
Prep Batch: 909351
Prep Date: 10/05/2009 23:55

Method: SW846 8270C Low Level
Analyst: RMB
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD5.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.4	ug/kg	3.48	17.4	20.0
83-32-9	Acenaphthene	U	17.4	ug/kg	5.81	17.4	20.0
129-00-0	Pyrene	U	17.4	ug/kg	5.46	17.4	20.0
91-20-3	Naphthalene	U	17.4	ug/kg	5.22	17.4	20.0
91-57-6	2-Methylnaphthalene	U	17.4	ug/kg	3.48	17.4	20.0
90-12-0	1-Methylnaphthalene	U	17.4	ug/kg	5.22	17.4	20.0
131-11-3	Dimethylphthalate	U	17.4	ug/kg	5.22	17.4	20.0
208-96-8	Acenaphthylene	U	17.4	ug/kg	5.22	17.4	20.0
84-66-2	Diethylphthalate	U	17.4	ug/kg	5.22	17.4	20.0
86-73-7	Fluorene	U	17.4	ug/kg	5.22	17.4	20.0
85-01-8	Phenanthrene	U	17.4	ug/kg	5.22	17.4	20.0
120-12-7	Anthracene	U	17.4	ug/kg	3.48	17.4	20.0
84-74-2	Di-n-butylphthalate	U	17.4	ug/kg	5.22	17.4	20.0
206-44-0	Fluoranthene	U	17.4	ug/kg	5.22	17.4	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.4	ug/kg	5.22	17.4	20.0
56-55-3	Benzo(a)anthracene	U	17.4	ug/kg	5.22	17.4	20.0
218-01-9	Chrysene	U	17.4	ug/kg	5.22	17.4	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	6.23	ug/kg	5.74	17.4	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.4	ug/kg	5.22	17.4	20.0
205-99-2	Benzo(b)fluoranthene	U	17.4	ug/kg	5.22	17.4	20.0
207-08-9	Benzo(k)fluoranthene	U	17.4	ug/kg	5.22	17.4	20.0
50-32-8	Benzo(a)pyrene	U	17.4	ug/kg	5.22	17.4	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.4	ug/kg	5.22	17.4	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.4	ug/kg	5.22	17.4	20.0
191-24-2	Benzo(ghi)perylene	U	17.4	ug/kg	5.22	17.4	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1470	1740	ug/kg	84.3	(37%-106%)
2-Fluorophenol	1230	1740	ug/kg	70.8	(35%-96%)
Phenol-d5	1200	1740	ug/kg	68.8	(36%-96%)
2-Fluorobiphenyl	628	870	ug/kg	72.2	(36%-100%)
Nitrobenzene-d5	628	870	ug/kg	72.2	(34%-104%)
p-Terphenyl-d14	770	870	ug/kg	88.5	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

LC/MS/MS
PERCHLORATE
ANALYSIS

Perchlorate Analysis Data Sheet

Client Sample No.
HZBS0081AS001

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 213328

Extraction Type: Solid Prep

Date Received: 01-OCT-09

GEL Job No (SDG): 238180

GEL Sample ID: 238180002

Date Filtered: 16-OCT-09

Injection Volume (uL): 20

% Solids: 98.5

Sample Volume/Weight: 10.0 g

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0508	1	0.0508	ug/L	U	1	17-OCT-09 12:06	per1017015a
	Perchlorate-O(18)			0.533	ug/L		1	17-OCT-09 12:06	per1017015a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =
 Instrument Value X Concentrated Extract Volume X 1 / %Solids Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 913328
 Extraction Type: Solid Prep

Client Sample No.
HZBS0081AS002

Date Received: 01-OCT-09
 GEL Job No (SDG): 238180
 GEL Sample ID: 238180003
 Date Filtered: 16-OCT-09
 Injection Volume (uL): 20
 %Solids: 94.5

Sample Volume/Weight: 10.0 g
 Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0529	1	0.0529	ug/L	U	1	17-OCT-09 12:13	per1017016a
	Perchlorate-O(18)			0.505	ug/L		1	17-OCT-09 12:13	per1017016a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =
 Instrument Value X Concentrated Extract Volume X 1 %Solids
 Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample No.
HZBS0178S001

Lab Code: GEL

Instrument: LCMSMS

Date Received: 01-OCT-09

Method: SW846 6850 Modified

GEL Job No (SDG): 238180

Matrix: SOIL

GEL Sample ID: 238180004

Extraction Batch ID: 913328

Date Filtered: 16-OCT-09

Extraction Type: Solid Prep

Injection Volume (uL): 20

Sample Volume/Weight: 10.0 g

%Solids: 97.9

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0511	1	0.0511	ug/L	U	1	17-OCT-09 12:20	per1017017a
	Perchlorate-O(18)			0.555	ug/L		1	17-OCT-09 12:20	per1017017a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =
Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample No.
HZBS0178S002

Lab Code: GEL

Instrument: LCMSMS Date Received: 01-OCT-09

Method: SW846.6850 Modified

GEL Job No (SDG): 238180

Matrix: SOIL

GEL Sample ID: 238180005

Extraction Batch ID: 913328

Date Filtered: 16-OCT-09

Extraction Type: Solid Prep

Injection Volume (uL): 20

Sample Volume/Weight: 10.0 g

%Solids: 94.3

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.053	1	0.053	ug/L	U	1	17-OCT-09 12:26	per1017018a
	Perchlorate-O(18)			0.537	ug/L		1	17-OCT-09 12:26	per1017018a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X $\frac{1}{\%Solids}$
Aliquot

Perchlorate Analysis Data Sheet

Client Sample No.
HZBS0179S001

Date Received: 01-OCT-09

GEL Job No (SDG): 238180

GEL Sample ID: 238180006

Date Filtered: 16-OCT-09

Injection Volume (uL): 20

%Solids: 98.2

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 213328

Extraction Type: Solid Prep

Sample Volume/Weight: 10.0 g

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0509	1	0.181	ug/L	J	1	17-OCT-09 12:33	per1017019a
	Perchlorate-O(18)			0.547	ug/L		1	17-OCT-09 12:33	per1017019a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =
 Instrument Value X Concentrated Extract Volume X 1
 Aliquot %Solids

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 913328
 Extraction Type: Solid Prep

Client Sample No.
HZBS0179S002

Date Received: 01-OCT-09
 GEL Job No (SDG): 238180
 GEL Sample ID: 238180007
 Date Filtered: 16-OCT-09
 Injection Volume (uL): 20
 %Solids: 95.8

Sample Volume/Weight: 10.0 g
 Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0522	1	0.0522	ug/L	U	1	17-OCT-09 13:06	per1017024a
	Perchlorate-O(18)			0.536	ug/L		1	17-OCT-09 13:06	per1017024a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =
 Instrument Value X Concentrated Extract Volume X 1 %Solids
 Aliquot

**GC
SEMIVOLATILE
DRO
ANALYSIS**

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 238180	Client: SSFL001	Project: SSFL00160
Lab Sample ID: 238180001	Date Collected: 09/30/2009 14:45	Matrix: Water
	Date Received: 10/01/2009 08:35	
Client ID: EBQW2248	Method: SW846 8015B EFH	Prep Basis: As Received
Batch ID: 909563	Analyst: KXR2	SOP Ref: GL-OA-E-003
Run Date: 10/07/2009 19:06	Inj. Vol: 1 uL	Instrument: FID7.I
Data File: 008f0801.d	Prep Method: SW846 3510C	Dilution: 1
Prep Batch: 909562	Aliquot: 1040 mL	Prep SOP Ref: GL-OA-E-013
Prep Date: 10/06/2009 21:13		Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	96.2	ug/L	31.7	96.2	100
EFH (>C14 - C2)	EFH (>C14 - C20)	U	96.2	ug/L	31.7	96.2	100
EFH (>C20 - C3)	EFH (>C20 - C30)	U	96.2	ug/L	31.7	96.2	100
EFH (C8 - C11)	EFH (C8 - C11)	U	96.2	ug/L	31.7	96.2	100

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	33.5	48.1	ug/L	69.7	(35%-103%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180002

Client: SSFL001
Date Collected: 09/30/2009 09:35
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 1.5

Client ID: HZBS0081AS001
Batch ID: 908750
Run Date: 10/03/2009 17:46
Data File: 007f0701.d
Prep Batch: 908747
Prep Date: 10/02/2009 22:17

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.05 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.38	mg/kg	1.12	3.38	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.38	mg/kg	1.12	3.38	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)		5.76	mg/kg	1.12	3.38	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.38	mg/kg	1.12	3.38	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.40	1.69	mg/kg	83.0	(34%-108%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: SSFL001	Project: SSFL00160
Lab Sample ID: 238180003	Date Collected: 09/30/2009 10:12	Matrix: Soil
	Date Received: 10/01/2009 08:35	%Moisture: 5.5
Client ID: HZBS0081AS002	Method: SW846 8015B EFH	Prep Basis: Dry Weight
Batch ID: 908750	Analyst: KXR2	SOP Ref: GL-OA-E-003
Run Date: 10/03/2009 20:49	Inj. Vol: 1 uL	Instrument: FID7.I
Data File: 012f1201.d	Prep Method: SW846 3550B	Dilution: 1
Prep Batch: 908747	Aliquot: 30.06 g	Prep SOP Ref: GL-OA-E-010
Prep Date: 10/02/2009 22:17		Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C14)	EFH (>C11 - C14)	U	3.52	mg/kg	1.16	3.52	5.00
EFH (>C14 - C20)	EFH (>C14 - C20)	U	3.52	mg/kg	1.16	3.52	5.00
EFH (>C20 - C30)	EFH (>C20 - C30)	U	3.52	mg/kg	1.16	3.52	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.52	mg/kg	1.16	3.52	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.17	1.76	mg/kg	66.6	(34%-108%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180004

Client: SSFL001
Date Collected: 09/30/2009 11:15
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 2.1

Client ID: HZBS0178S001
Batch ID: 908750
Run Date: 10/03/2009 21:26
Data File: 013f1301.d
Prep Batch: 908747
Prep Date: 10/02/2009 22:17

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.40	mg/kg	1.12	3.40	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	J	2.30	mg/kg	1.12	3.40	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)		10.5	mg/kg	1.12	3.40	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.40	mg/kg	1.12	3.40	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.22	1.70	mg/kg	71.6	(34%-108%)

Comments:

- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180005

Client: SSFL001
Date Collected: 09/30/2009 11:30
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 5.7
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0178S002
Batch ID: 908750
Run Date: 10/03/2009 22:03
Data File: 014f1401.d
Prep Batch: 908747
Prep Date: 10/02/2009 22:17

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.02 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.53	mg/kg	1.17	3.53	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.53	mg/kg	1.17	3.53	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	U	3.53	mg/kg	1.17	3.53	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.53	mg/kg	1.17	3.53	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.24	1.77	mg/kg	70.4	(34%-108%)

Comments:

- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180006

Client: SSFL001
Date Collected: 09/30/2009 12:40
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 1.8

Client ID: HZBS0179S001
Batch ID: 908750
Run Date: 10/03/2009 22:40
Data File: 015f1501.d
Prep Batch: 908747
Prep Date: 10/02/2009 22:17

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.40	mg/kg	1.12	3.40	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.40	mg/kg	1.12	3.40	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	J	3.12	mg/kg	1.12	3.40	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.40	mg/kg	1.12	3.40	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.12	1.70	mg/kg	65.8	(34%-108%)

Comments:

- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180007

Client: SSFL001
Date Collected: 09/30/2009 12:50
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 4.2

Client ID: HZBS0179S002
Batch ID: 908750
Run Date: 10/03/2009 23:17
Data File: 016f1601.d
Prep Batch: 908747
Prep Date: 10/02/2009 22:17

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.02 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.48	mg/kg	1.15	3.48	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.48	mg/kg	1.15	3.48	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	U	3.48	mg/kg	1.15	3.48	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.48	mg/kg	1.15	3.48	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.12	1.74	mg/kg	64.3	(34%-108%)

Comments:

- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

GC
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**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180001

Client: SSFL001
Date Collected: 09/30/2009 14:45
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Water

Client ID: EBQW2248
Batch ID: 908824
Run Date: 10/07/2009 00:17
Data File: Dual Column
Prep Batch: 908823
Prep Date: 10/05/2009 15:41

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3510C
Aliquot: 1050 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-013
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	0.0952	ug/L	0.0317	0.0952	0.100	056f5601.d
11104-28-2	Aroclor-1221	U	0.0952	ug/L	0.0317	0.0952	0.200	056f5601.d
11141-16-5	Aroclor-1232	U	0.0952	ug/L	0.0317	0.0952	0.100	056f5601.d
53469-21-9	Aroclor-1242	U	0.0952	ug/L	0.0317	0.0952	0.100	056f5601.d
12672-29-6	Aroclor-1248	U	0.0952	ug/L	0.0317	0.0952	0.100	056f5601.d
11097-69-1	Aroclor-1254	U	0.0952	ug/L	0.0317	0.0952	0.100	056f5601.d
11096-82-5	Aroclor-1260	U	0.0952	ug/L	0.0317	0.0952	0.100	056f5601.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	0.119	0.190	ug/L	62.3	(29%–103%)	056f5601.d
Decachlorobiphenyl	0.0802	0.190	ug/L	42.1	(34%–118%)	056f5601.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180002

Client: SSFL001
Date Collected: 09/30/2009 09:35
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 1.5
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0081AS001
Batch ID: 909927
Run Date: 10/08/2009 08:36
Data File: Dual Column
Prep Batch: 909926
Prep Date: 10/07/2009 18:57

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.39	ug/kg	1.13	3.39	15.0	014f1401.d
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	15.0	014f1401.d
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	15.0	014f1401.d
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	15.0	014f1401.d
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	15.0	014f1401.d
11097-69-1	Aroclor-1254	P	4.70	ug/kg	1.13	3.39	15.0	014f1401.d
11096-82-5	Aroclor-1260	J	2.90	ug/kg	1.13	3.39	15.0	014b1401.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.11	6.77	ug/kg	60.8	(34%-105%)	014b1401.d
Decachlorobiphenyl	4.42	6.77	ug/kg	65.3	(33%-115%)	014b1401.d

Comments:

J Value is estimated

P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180003

Client: SSFL001
Date Collected: 09/30/2009 10:12
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 5.5
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0081AS002
Batch ID: 908832
Run Date: 10/06/2009 21:52
Data File: Dual Column
Prep Batch: 908830
Prep Date: 10/05/2009 10:50

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.05 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.52	ug/kg	1.17	3.52	15.0	045f4501.d
11104-28-2	Aroclor-1221	U	3.52	ug/kg	1.17	3.52	15.0	045f4501.d
11141-16-5	Aroclor-1232	U	3.52	ug/kg	1.17	3.52	15.0	045f4501.d
53469-21-9	Aroclor-1242	U	3.52	ug/kg	1.17	3.52	15.0	045f4501.d
12672-29-6	Aroclor-1248	U	3.52	ug/kg	1.17	3.52	15.0	045f4501.d
11097-69-1	Aroclor-1254	U	3.52	ug/kg	1.17	3.52	15.0	045f4501.d
11096-82-5	Aroclor-1260	U	3.52	ug/kg	1.17	3.52	15.0	045f4501.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.68	7.05	ug/kg	66.4	(34%-105%)	045b4501.d
Decachlorobiphenyl	5.20	7.05	ug/kg	73.8	(33%-115%)	045b4501.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180004

Client: SSFL001
Date Collected: 09/30/2009 11:15
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 2.1
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0178S001
Batch ID: 908832
Run Date: 10/06/2009 22:08
Data File: Dual Column
Prep Batch: 908830
Prep Date: 10/05/2009 10:50

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.01 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.40	ug/kg	1.13	3.40	15.0	046f4601.d
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	15.0	046f4601.d
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	15.0	046f4601.d
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	15.0	046f4601.d
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	15.0	046f4601.d
11097-69-1	Aroclor-1254	JP	2.90	ug/kg	1.13	3.40	15.0	046f4601.d
11096-82-5	Aroclor-1260		4.40	ug/kg	1.13	3.40	15.0	046b4601.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.18	6.81	ug/kg	61.4	(34%-105%)	046b4601.d
Decachlorobiphenyl	5.05	6.81	ug/kg	74.2	(33%-115%)	046b4601.d

Comments:

J Value is estimated

P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180005

Client: SSFL001
Date Collected: 09/30/2009 11:30
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 5.7
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0178S002
Batch ID: 908832
Run Date: 10/06/2009 22:23
Data File: Dual Column
Prep Batch: 908830
Prep Date: 10/05/2009 10:50

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.17 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.52	ug/kg	1.17	3.52	15.0	047f4701.d
11104-28-2	Aroclor-1221	U	3.52	ug/kg	1.17	3.52	15.0	047f4701.d
11141-16-5	Aroclor-1232	U	3.52	ug/kg	1.17	3.52	15.0	047f4701.d
53469-21-9	Aroclor-1242	U	3.52	ug/kg	1.17	3.52	15.0	047f4701.d
12672-29-6	Aroclor-1248	U	3.52	ug/kg	1.17	3.52	15.0	047f4701.d
11097-69-1	Aroclor-1254	U	3.52	ug/kg	1.17	3.52	15.0	047f4701.d
11096-82-5	Aroclor-1260	U	3.52	ug/kg	1.17	3.52	15.0	047f4701.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.35	7.03	ug/kg	61.8	(34%-105%)	047b4701.d
Decachlorobiphenyl	4.83	7.03	ug/kg	68.8	(33%-115%)	047b4701.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180006

Client: SSFL001
Date Collected: 09/30/2009 12:40
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 1.8
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0179S001
Batch ID: 908832
Run Date: 10/06/2009 22:39
Data File: Dual Column
Prep Batch: 908830
Prep Date: 10/05/2009 10:50

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.07 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.39	ug/kg	1.13	3.39	15.0	048f4801.d
11104-28-2	Aroclor-1221	U	3.39	ug/kg	1.13	3.39	15.0	048f4801.d
11141-16-5	Aroclor-1232	U	3.39	ug/kg	1.13	3.39	15.0	048f4801.d
53469-21-9	Aroclor-1242	U	3.39	ug/kg	1.13	3.39	15.0	048f4801.d
12672-29-6	Aroclor-1248	U	3.39	ug/kg	1.13	3.39	15.0	048f4801.d
11097-69-1	Aroclor-1254	U	3.39	ug/kg	1.13	3.39	15.0	048f4801.d
11096-82-5	Aroclor-1260	U	3.39	ug/kg	1.13	3.39	15.0	048f4801.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.55	6.78	ug/kg	67.1	(34%-105%)	048b4801.d
Decachlorobiphenyl	5.25	6.78	ug/kg	77.5	(33%-115%)	048b4801.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238180
Lab Sample ID: 238180007

Client: SSFL001
Date Collected: 09/30/2009 12:50
Date Received: 10/01/2009 08:35

Project: SSFL00160
Matrix: Soil
%Moisture: 4.2
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0179S002
Batch ID: 908832
Run Date: 10/06/2009 22:55
Data File: Dual Column
Prep Batch: 908830
Prep Date: 10/05/2009 10:50

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.08 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.47	ug/kg	1.16	3.47	15.0	049f4901.d
11104-28-2	Aroclor-1221	U	3.47	ug/kg	1.16	3.47	15.0	049f4901.d
11141-16-5	Aroclor-1232	U	3.47	ug/kg	1.16	3.47	15.0	049f4901.d
53469-21-9	Aroclor-1242	U	3.47	ug/kg	1.16	3.47	15.0	049f4901.d
12672-29-6	Aroclor-1248	U	3.47	ug/kg	1.16	3.47	15.0	049f4901.d
11097-69-1	Aroclor-1254	U	3.47	ug/kg	1.16	3.47	15.0	049f4901.d
11096-82-5	Aroclor-1260	U	3.47	ug/kg	1.16	3.47	15.0	049f4901.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.37	6.94	ug/kg	62.9	(34%-105%)	049b4901.d
Decachlorobiphenyl	5.04	6.94	ug/kg	72.6	(33%-115%)	049b4901.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180001

BASIS: As Received

DATE COLLECTED 30-SEP-09

CLIENT ID: EBQW2248

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	68	ug/L	U	68	200	200	1	P	HSC	10/05/09 09:20	100509-1	908398
7440-36-0	Antimony	3	ug/L	U	3	10	10	1	P	HSC	10/05/09 09:20	100509-1	908398
7440-38-2	Arsenic	3.1	ug/L	J	1.6	5	5	1	MS	PRB	10/05/09 18:39	091005-6	908448
7440-39-3	Barium	0.60	ug/L	U	0.6	2	2	1	MS	PRB	10/05/09 18:39	091005-6	908448
7440-41-7	Beryllium	0.10	ug/L	U	0.1	0.5	0.5	1	MS	PRB	10/05/09 18:39	091005-6	908448
7440-42-8	Boron	15	ug/L	U	15	50	50	1	P	HSC	10/05/09 09:20	100509-1	908398
7440-43-9	Cadmium	0.110	ug/L	U	0.11	1	1	1	MS	PRB	10/05/09 18:39	091005-6	908448
7440-47-3	Chromium	2	ug/L	U	2	10	3	1	MS	PRB	10/05/09 18:39	091005-6	908448
7440-48-4	Cobalt	0.10	ug/L	U	0.1	1	1	1	MS	PRB	10/05/09 18:39	091005-6	908448
7440-50-8	Copper	0.399	ug/L	J	0.33	1	1	1	MS	PRB	10/05/09 18:39	091005-6	908448
7439-92-1	Lead	0.50	ug/L	U	0.5	2	2	1	MS	PRB	10/05/09 18:39	091005-6	908448
7439-97-6	Mercury	0.066	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	10/05/09 11:12	100509W3-8	908523
7439-98-7	Molybdenum	0.167	ug/L	U	0.167	0.5	0.5	1	MS	PRB	10/06/09 10:52	091006-7	908448
7440-02-0	Nickel	0.50	ug/L	U	0.5	2	2	1	MS	PRB	10/05/09 18:39	091005-6	908448
7782-49-2	Selenium	1	ug/L	U	1	5	5	1	MS	PRB	10/05/09 18:39	091005-6	908448
7440-22-4	Silver	0.20	ug/L	U	0.2	1	1	1	MS	PRB	10/05/09 18:39	091005-6	908448
7440-28-0	Thallium	0.929	ug/L	J	0.3	1	1	1	MS	PRB	10/05/09 18:39	091005-6	908448
7440-62-2	Vanadium	3	ug/L	U	3	10	10	1	MS	PRB	10/06/09 10:52	091006-7	908448
7440-66-6	Zinc	3	ug/L	U	3	10	10	1	MS	PRB	10/05/09 18:39	091005-6	908448

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908398	908397	SW846 3005A	50	mL	50	mL	10/02/09	FGA
908448	908447	SW846 3005A	50	mL	50	mL	10/02/09	FGA
908523	908522	SW846 7470A Prep	20	mL	20	mL	10/02/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180002

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZBS0081AS001

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 98.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	15300	mg/kg		6.72	19.8	10	1	P	HSC	10/05/09 09:41	100509-1	908425
7440-36-0	Antimony	2.57	mg/kg		0.326	0.988	1	1	P	HSC	10/05/09 09:41	100509-1	908425
7440-38-2	Arsenic	6.25	mg/kg	*	0.193	0.967	0.5	2	MS	PRB	10/05/09 10:44	091005-2	908469
7440-39-3	Barium	95.9	mg/kg	*	0.0967	0.387	0.5	2	MS	PRB	10/05/09 10:44	091005-2	908469
7440-41-7	Beryllium	0.697	mg/kg	*N	0.0193	0.0967	0.3	2	MS	PRB	10/05/09 10:44	091005-2	908469
7440-42-8	Boron	4.22	mg/kg	J	0.988	4.94	5	1	P	HSC	10/05/09 09:41	100509-1	908425
7440-43-9	Cadmium	0.204	mg/kg		0.0193	0.193	0.2	2	MS	PRB	10/05/09 10:44	091005-2	908469
7440-47-3	Chromium	21.2	mg/kg	*E	0.193	0.58	1	2	MS	PRB	10/05/09 10:44	091005-2	908469
7440-48-4	Cobalt	6.87	mg/kg	*EN	0.058	0.193	0.5	2	MS	PRB	10/05/09 10:44	091005-2	908469
7440-50-8	Copper	11.6	mg/kg	*EN	0.0638	0.193	0.2	2	MS	PRB	10/05/09 10:44	091005-2	908469
7439-92-1	Lead	13.2	mg/kg	*N	0.0967	0.387	0.4	2	MS	PRB	10/05/09 10:44	091005-2	908469
7439-97-6	Mercury	0.0131	mg/kg	*N	0.00401	0.0118	0.01	1	AV	JXL1	10/06/09 10:40	100609S1-9	908525
7439-98-7	Molybdenum	0.481	mg/kg		0.058	0.193	0.1	2	MS	PRB	10/05/09 10:44	091005-2	908469
7440-02-0	Nickel	15.3	mg/kg	*EN	0.0967	0.387	0.4	2	MS	PRB	10/05/09 10:44	091005-2	908469
7782-49-2	Selenium	0.484	mg/kg	U	0.484	0.967	1	2	MS	PRB	10/05/09 10:44	091005-2	908469
7440-22-4	Silver	0.0716	mg/kg	J	0.0387	0.193	0.2	2	MS	PRB	10/05/09 10:44	091005-2	908469
7440-28-0	Thallium	0.335	mg/kg		0.058	0.193	0.2	2	MS	PRB	10/05/09 10:44	091005-2	908469
7440-62-2	Vanadium	48.7	mg/kg	*	1.93	9.67	1	10	MS	PRB	10/05/09 12:18	091005-2	908469
7440-66-6	Zinc	70.2	mg/kg	*	0.387	1.93	5	2	MS	PRB	10/05/09 10:44	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908425	908424	SW846 3050B	0.514	g	50	mL	10/02/09	FGA
908469	908468	SW846 3050B	0.525	g	50	mL	10/02/09	FGA
908525	908524	SW846 7471A Prep	0.517	g	30	mL	10/05/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180003

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZBS0081AS002

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 94.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	15500	mg/kg		7	20.6	10	1	P	HSC	10/05/09 10:04	100509-1	908425
7440-36-0	Antimony	2.02	mg/kg		0.34	1.03	1	1	P	HSC	10/05/09 10:04	100509-1	908425
7440-38-2	Arsenic	6.14	mg/kg	*	0.207	1.04	0.5	2	MS	PRB	10/05/09 11:11	091005-2	908469
7440-39-3	Barium	119	mg/kg	*	0.104	0.414	0.5	2	MS	PRB	10/05/09 11:11	091005-2	908469
7440-41-7	Beryllium	0.825	mg/kg	*N	0.0207	0.104	0.3	2	MS	PRB	10/05/09 11:11	091005-2	908469
7440-42-8	Boron	3.16	mg/kg	J	1.03	5.15	5	1	P	HSC	10/05/09 10:04	100509-1	908425
7440-43-9	Cadmium	0.165	mg/kg	J	0.0207	0.207	0.2	2	MS	PRB	10/05/09 11:11	091005-2	908469
7440-47-3	Chromium	21.7	mg/kg	*E	0.207	0.622	1	2	MS	PRB	10/05/09 11:11	091005-2	908469
7440-48-4	Cobalt	6.96	mg/kg	*EN	0.0622	0.207	0.5	2	MS	PRB	10/05/09 11:11	091005-2	908469
7440-50-8	Copper	11	mg/kg	*EN	0.0684	0.207	0.2	2	MS	PRB	10/05/09 11:11	091005-2	908469
7439-92-1	Lead	9.44	mg/kg	*N	0.104	0.414	0.4	2	MS	PRB	10/05/09 11:11	091005-2	908469
7439-97-6	Mercury	0.00396	mg/kg	U*N	0.00396	0.0117	0.01	1	AV	JXL1	10/06/09 10:50	100609S1-9	908525
7439-98-7	Molybdenum	0.474	mg/kg		0.0622	0.207	0.1	2	MS	PRB	10/05/09 11:11	091005-2	908469
7440-02-0	Nickel	15.1	mg/kg	*EN	0.104	0.414	0.4	2	MS	PRB	10/05/09 11:11	091005-2	908469
7782-49-2	Selenium	0.518	mg/kg	U	0.518	1.04	1	2	MS	PRB	10/05/09 11:11	091005-2	908469
7440-22-4	Silver	0.092	mg/kg	J	0.0414	0.207	0.2	2	MS	PRB	10/05/09 11:11	091005-2	908469
7440-28-0	Thallium	0.325	mg/kg		0.0622	0.207	0.2	2	MS	PRB	10/05/09 11:11	091005-2	908469
7440-62-2	Vanadium	46.3	mg/kg	*	2.07	10.4	1	10	MS	PRB	10/05/09 12:38	091005-2	908469
7440-66-6	Zinc	63.8	mg/kg	*	0.414	2.07	5	2	MS	PRB	10/05/09 11:11	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908425	908424	SW846 3050B	0.514	g	50	mL	10/02/09	FGA
908469	908468	SW846 3050B	0.511	g	50	mL	10/02/09	FGA
908525	908524	SW846 7471A Prep	0.545	g	30	mL	10/05/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180004

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZBS0178S001

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 97.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	10800	mg/kg		6.89	20.3	10	1	P	HSC	10/05/09 10:07	100509-1	908425
7440-36-0	Antimony	1.12	mg/kg		0.334	1.01	1	1	P	HSC	10/05/09 10:07	100509-1	908425
7440-38-2	Arsenic	5.86	mg/kg	*	0.195	0.973	0.5	2	MS	PRB	10/05/09 11:15	091005-2	908469
7440-39-3	Barium	84.9	mg/kg	*	0.0973	0.389	0.5	2	MS	PRB	10/05/09 11:15	091005-2	908469
7440-41-7	Beryllium	0.619	mg/kg	*N	0.0195	0.0973	0.3	2	MS	PRB	10/05/09 11:15	091005-2	908469
7440-42-8	Boron	3.47	mg/kg	J	1.01	5.07	5	1	P	HSC	10/05/09 10:07	100509-1	908425
7440-43-9	Cadmium	0.224	mg/kg		0.0195	0.195	0.2	2	MS	PRB	10/05/09 11:15	091005-2	908469
7440-47-3	Chromium	18.6	mg/kg	*E	0.195	0.584	1	2	MS	PRB	10/05/09 11:15	091005-2	908469
7440-48-4	Cobalt	5.83	mg/kg	*EN	0.0584	0.195	0.5	2	MS	PRB	10/05/09 11:15	091005-2	908469
7440-50-8	Copper	10.7	mg/kg	*EN	0.0642	0.195	0.2	2	MS	PRB	10/05/09 11:15	091005-2	908469
7439-92-1	Lead	15	mg/kg	*N	0.0973	0.389	0.4	2	MS	PRB	10/05/09 11:15	091005-2	908469
7439-97-6	Mercury	0.0174	mg/kg	*N	0.00382	0.0112	0.01	1	AV	JXL1	10/06/09 10:52	100609S1-9	908525
7439-98-7	Molybdenum	0.506	mg/kg		0.0584	0.195	0.1	2	MS	PRB	10/05/09 11:15	091005-2	908469
7440-02-0	Nickel	13.9	mg/kg	*EN	0.0973	0.389	0.4	2	MS	PRB	10/05/09 11:15	091005-2	908469
7782-49-2	Selenium	0.486	mg/kg	U	0.486	0.973	1	2	MS	PRB	10/05/09 11:15	091005-2	908469
7440-22-4	Silver	0.0661	mg/kg	J	0.0389	0.195	0.2	2	MS	PRB	10/05/09 11:15	091005-2	908469
7440-28-0	Thallium	0.299	mg/kg		0.0584	0.195	0.2	2	MS	PRB	10/05/09 11:15	091005-2	908469
7440-62-2	Vanadium	39.6	mg/kg	*	1.95	9.73	1	10	MS	PRB	10/05/09 12:42	091005-2	908469
7440-66-6	Zinc	60.5	mg/kg	*	0.389	1.95	5	2	MS	PRB	10/05/09 11:15	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908425	908424	SW846 3050B	0.504	g	50	mL	10/02/09	FGA
908469	908468	SW846 3050B	0.525	g	50	mL	10/02/09	FGA
908525	908524	SW846 7471A Prep	0.546	g	30	mL	10/05/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180005

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZBS0178S002

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 94.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	16100	mg/kg		7.21	21.2	10	1	P	HSC	10/05/09 10:09	100509-1	908425
7440-36-0	Antimony	2.33	mg/kg		0.35	1.06	1	1	P	HSC	10/05/09 10:09	100509-1	908425
7440-38-2	Arsenic	5.42	mg/kg	*	0.202	1.01	0.5	2	MS	PRB	10/05/09 11:19	091005-2	908469
7440-39-3	Barium	81.6	mg/kg	*	0.101	0.404	0.5	2	MS	PRB	10/05/09 11:19	091005-2	908469
7440-41-7	Beryllium	0.786	mg/kg	*N	0.0202	0.101	0.3	2	MS	PRB	10/05/09 11:19	091005-2	908469
7440-42-8	Boron	2.84	mg/kg	J	1.06	5.3	5	1	P	HSC	10/05/09 10:09	100509-1	908425
7440-43-9	Cadmium	0.0568	mg/kg	J	0.0202	0.202	0.2	2	MS	PRB	10/05/09 11:19	091005-2	908469
7440-47-3	Chromium	20.9	mg/kg	*E	0.202	0.606	1	2	MS	PRB	10/05/09 11:19	091005-2	908469
7440-48-4	Cobalt	5.74	mg/kg	*EN	0.0606	0.202	0.5	2	MS	PRB	10/05/09 11:19	091005-2	908469
7440-50-8	Copper	9.03	mg/kg	*EN	0.0667	0.202	0.2	2	MS	PRB	10/05/09 11:19	091005-2	908469
7439-92-1	Lead	8.14	mg/kg	*N	0.101	0.404	0.4	2	MS	PRB	10/05/09 11:19	091005-2	908469
7439-97-6	Mercury	0.015	mg/kg	*N	0.00364	0.0107	0.01	1	AV	JXL1	10/06/09 10:54	100609S1-9	908525
7439-98-7	Molybdenum	0.380	mg/kg		0.0606	0.202	0.1	2	MS	PRB	10/05/09 11:19	091005-2	908469
7440-02-0	Nickel	12.5	mg/kg	*EN	0.101	0.404	0.4	2	MS	PRB	10/05/09 11:19	091005-2	908469
7782-49-2	Selenium	0.505	mg/kg	U	0.505	1.01	1	2	MS	PRB	10/05/09 11:19	091005-2	908469
7440-22-4	Silver	0.0584	mg/kg	J	0.0404	0.202	0.2	2	MS	PRB	10/05/09 11:19	091005-2	908469
7440-28-0	Thallium	0.230	mg/kg		0.0606	0.202	0.2	2	MS	PRB	10/05/09 11:19	091005-2	908469
7440-62-2	Vanadium	47	mg/kg	*	2.02	10.1	1	10	MS	PRB	10/05/09 12:46	091005-2	908469
7440-66-6	Zinc	49.2	mg/kg	*	0.404	2.02	5	2	MS	PRB	10/05/09 11:19	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908425	908424	SW846 3050B	0.5	g	50	mL	10/02/09	FGA
908469	908468	SW846 3050B	0.525	g	50	mL	10/02/09	FGA
908525	908524	SW846 7471A Prep	0.595	g	30	mL	10/05/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180006

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZBS0179S001

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 98.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	10400	mg/kg		6.61	19.4	10	1	P	HSC	10/05/09 10:12	100509-1	908425
7440-36-0	Antimony	1.97	mg/kg		0.321	0.972	1	1	P	HSC	10/05/09 10:12	100509-1	908425
7440-38-2	Arsenic	5.58	mg/kg	*	0.201	1	0.5	2	MS	PRB	10/05/09 11:23	091005-2	908469
7440-39-3	Barium	78.7	mg/kg	*	0.1	0.401	0.5	2	MS	PRB	10/05/09 11:23	091005-2	908469
7440-41-7	Beryllium	0.644	mg/kg	*N	0.0201	0.1	0.3	2	MS	PRB	10/05/09 11:23	091005-2	908469
7440-42-8	Boron	3.73	mg/kg	J	0.972	4.86	5	1	P	HSC	10/05/09 10:12	100509-1	908425
7440-43-9	Cadmium	0.187	mg/kg	J	0.0201	0.201	0.2	2	MS	PRB	10/05/09 11:23	091005-2	908469
7440-47-3	Chromium	17	mg/kg	*E	0.201	0.602	1	2	MS	PRB	10/05/09 11:23	091005-2	908469
7440-48-4	Cobalt	5.4	mg/kg	*EN	0.0602	0.201	0.5	2	MS	PRB	10/05/09 11:23	091005-2	908469
7440-50-8	Copper	8.47	mg/kg	*EN	0.0662	0.201	0.2	2	MS	PRB	10/05/09 11:23	091005-2	908469
7439-92-1	Lead	11.1	mg/kg	*N	0.1	0.401	0.4	2	MS	PRB	10/05/09 11:23	091005-2	908469
7439-97-6	Mercury	0.0153	mg/kg	*N	0.00399	0.0117	0.01	1	AV	JXL1	10/06/09 10:56	100609S1-9	908525
7439-98-7	Molybdenum	0.458	mg/kg		0.0602	0.201	0.1	2	MS	PRB	10/05/09 11:23	091005-2	908469
7440-02-0	Nickel	12.5	mg/kg	*EN	0.1	0.401	0.4	2	MS	PRB	10/05/09 11:23	091005-2	908469
7782-49-2	Selenium	0.501	mg/kg	U	0.501	1	1	2	MS	PRB	10/05/09 11:23	091005-2	908469
7440-22-4	Silver	0.0554	mg/kg	J	0.0401	0.201	0.2	2	MS	PRB	10/05/09 11:23	091005-2	908469
7440-28-0	Thallium	0.253	mg/kg		0.0602	0.201	0.2	2	MS	PRB	10/05/09 11:23	091005-2	908469
7440-62-2	Vanadium	33.5	mg/kg	*	2.01	10	1	10	MS	PRB	10/05/09 12:50	091005-2	908469
7440-66-6	Zinc	51.8	mg/kg	*	0.401	2.01	5	2	MS	PRB	10/05/09 11:23	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908425	908424	SW846 3050B	0.524	g	50	mL	10/02/09	FGA
908469	908468	SW846 3050B	0.508	g	50	mL	10/02/09	FGA
908525	908524	SW846 7471A Prep	0.521	g	30	mL	10/05/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180007

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZBS0179S002

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 95.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	12600	mg/kg		6.8	20	10	1	P	HSC	10/05/09 10:15	100509-1	908425
7440-36-0	Antimony	2.19	mg/kg		0.33	1	1	1	P	HSC	10/05/09 10:15	100509-1	908425
7440-38-2	Arsenic	2.87	mg/kg	*	0.199	0.994	0.5	2	MS	PRB	10/05/09 11:27	091005-2	908469
7440-39-3	Barium	61.6	mg/kg	*	0.0994	0.398	0.5	2	MS	PRB	10/05/09 11:27	091005-2	908469
7440-41-7	Beryllium	0.664	mg/kg	*N	0.0199	0.0994	0.3	2	MS	PRB	10/05/09 11:27	091005-2	908469
7440-42-8	Boron	2.36	mg/kg	J	1	5	5	1	P	HSC	10/05/09 10:15	100509-1	908425
7440-43-9	Cadmium	0.0483	mg/kg	J	0.0199	0.199	0.2	2	MS	PRB	10/05/09 11:27	091005-2	908469
7440-47-3	Chromium	12.2	mg/kg	*E	0.199	0.596	1	2	MS	PRB	10/05/09 11:27	091005-2	908469
7440-48-4	Cobalt	3.57	mg/kg	*EN	0.0596	0.199	0.5	2	MS	PRB	10/05/09 11:27	091005-2	908469
7440-50-8	Copper	4.65	mg/kg	*EN	0.0656	0.199	0.2	2	MS	PRB	10/05/09 11:27	091005-2	908469
7439-92-1	Lead	5.12	mg/kg	*N	0.0994	0.398	0.4	2	MS	PRB	10/05/09 11:27	091005-2	908469
7439-97-6	Mercury	0.00916	mg/kg	J*N	0.00389	0.0114	0.01	1	AV	JXL1	10/06/09 10:58	100609S1-9	908525
7439-98-7	Molybdenum	0.274	mg/kg		0.0596	0.199	0.1	2	MS	PRB	10/05/09 11:27	091005-2	908469
7440-02-0	Nickel	7.74	mg/kg	*EN	0.0994	0.398	0.4	2	MS	PRB	10/05/09 11:27	091005-2	908469
7782-49-2	Selenium	0.497	mg/kg	U	0.497	0.994	1	2	MS	PRB	10/05/09 11:27	091005-2	908469
7440-22-4	Silver	0.0398	mg/kg	U	0.0398	0.199	0.2	2	MS	PRB	10/05/09 11:27	091005-2	908469
7440-28-0	Thallium	0.20	mg/kg		0.0596	0.199	0.2	2	MS	PRB	10/05/09 11:27	091005-2	908469
7440-62-2	Vanadium	24	mg/kg	*	1.99	9.94	1	10	MS	PRB	10/05/09 12:54	091005-2	908469
7440-66-6	Zinc	41.2	mg/kg	*	0.398	1.99	5	2	MS	PRB	10/05/09 11:27	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908425	908424	SW846 3050B	0.522	g	50	mL	10/02/09	FGA
908469	908468	SW846 3050B	0.525	g	50	mL	10/02/09	FGA
908525	908524	SW846 7471A Prep	0.547	g	30	mL	10/05/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180008

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZET0718S001

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 94.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	9.91	mg/kg	*EN	0.0667	0.202	0.2	2	MS	PRB	10/05/09 11:39	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908469	908468	SW846 3050B	0.525	g	50	mL	10/02/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180009

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZET0719S001

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 96.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	6.26	mg/kg	*EN	0.0657	0.199	0.2	2	MS	PRB	10/05/09 11:43	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908469	908468	SW846 3050B	0.521	g	50	mL	10/02/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180010

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZET0720S001

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 94.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	5.41	mg/kg	*EN	0.0682	0.207	0.2	2	MS	PRB	10/05/09 11:47	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908469	908468	SW846 3050B	0.513	g	50	mL	10/02/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180011

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZET0721S001

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	5.19	mg/kg	*EN	0.0776	0.235	0.2	2	MS	PRB	10/05/09 11:51	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908469	908468	SW846 3050B	0.5	g	50	mL	10/02/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180012

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZET0722S001

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 96.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	4.21	mg/kg	*EN	0.0651	0.197	0.2	2	MS	PRB	10/05/09 11:54	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908469	908468	SW846 3050B	0.525	g	50	mL	10/02/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180013

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZET0723S001

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 93.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	2.99	mg/kg	*EN	0.0689	0.209	0.2	2	MS	PRB	10/05/09 11:58	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908469	908468	SW846 3050B	0.512	g	50	mL	10/02/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180014

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZET0724S001

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 95.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	6.11	mg/kg	*EN	0.0673	0.204	0.2	2	MS	PRB	10/05/09 12:02	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908469	908468	SW846 3050B	0.515	g	50	mL	10/02/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238180

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238180015

BASIS: Dry Weight

DATE COLLECTED 30-SEP-09

CLIENT ID: HZET0725S001

LEVEL: Low

DATE RECEIVED 01-OCT-09

MATRIX: SOIL

%SOLIDS: 96.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	7.96	mg/kg	*EN	0.0652	0.198	0.2	2	MS	PRB	10/05/09 12:06	091005-2	908469

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908469	908468	SW846 3050B	0.525	g	50	mL	10/02/09	FGA

General Chemistry

Analysis

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0081AS001
Sample ID: 238180002
Matrix: Soil
Collect Date: 30-SEP-09 09:35
Receive Date: 01-OCT-09
Collector: Client
Moisture: 1.53%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	5.00	20.0	ug/L	5	MAR110/23/09	1142	914591	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0081AS002
Sample ID: 238180003
Matrix: Soil
Collect Date: 30-SEP-09 10:12
Receive Date: 01-OCT-09
Collector: Client
Moisture: 5.55%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/22/09	2117	914591	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0178S001
Sample ID: 238180004
Matrix: Soil
Collect Date: 30-SEP-09 11:15
Receive Date: 01-OCT-09
Collector: Client
Moisture: 2.09%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	5.00	20.0	ug/L	5	MAR110/23/09	1201	914591	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0178S002
Sample ID: 238180005
Matrix: Soil
Collect Date: 30-SEP-09 11:30
Receive Date: 01-OCT-09
Collector: Client
Moisture: 5.73%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/22/09	2156	914591	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0179S001
Sample ID: 238180006
Matrix: Soil
Collect Date: 30-SEP-09 12:40
Receive Date: 01-OCT-09
Collector: Client
Moisture: 1.84%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/23/09	1221	914591	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
#10-D
Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0179S002
Sample ID: 238180007
Matrix: Soil
Collect Date: 30-SEP-09 12:50
Receive Date: 01-OCT-09
Collector: Client
Moisture: 4.19%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/22/09	2315	914591	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

Subcontract Data

Dioxins

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084001	Date Collected: 09/30/2009 11:15	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 3.5
Client ID: HZBS0178S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/05/2009 20:37	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-5		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 10.75 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.188	pg/g	0.188	0.482
40321-76-4	1,2,3,7,8-PeCDD	JK	0.247	pg/g	0.185	2.41
39227-28-6	1,2,3,4,7,8-HxCDD	JK	0.370	pg/g	0.229	2.41
57653-85-7	1,2,3,6,7,8-HxCDD	U	.262	pg/g	0.262	2.41
19408-74-3	1,2,3,7,8,9-HxCDD	J	0.418	pg/g	0.258	2.41
35822-46-9	1,2,3,4,6,7,8-HpCDD	K	3.69	pg/g	0.416	2.41
3268-87-9	1,2,3,4,5,6,7,8-OCDD		26.3	pg/g	0.802	4.82
51207-31-9	2,3,7,8-TCDF	JK	0.428	pg/g	0.360	0.482
57117-41-6	1,2,3,7,8-PeCDF	JK	0.291	pg/g	0.165	2.41
57117-31-4	2,3,4,7,8-PeCDF	J	0.335	pg/g	0.157	2.41
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.220	pg/g	0.202	2.41
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.316	pg/g	0.216	2.41
60851-34-5	2,3,4,6,7,8-HxCDF	U	.243	pg/g	0.243	2.41
72918-21-9	1,2,3,7,8,9-HxCDF	U	.316	pg/g	0.316	2.41
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.730	pg/g	0.183	2.41
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.362	pg/g	0.362	2.41
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	1.68	pg/g	0.840	4.82
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		0.898	pg/g	0.188	0.482
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.247	pg/g	0.185	2.41
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	2.35	pg/g	0.229	2.41
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		9.35	pg/g	0.416	2.41
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	1.74	pg/g	0.360	0.482
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		2.94	pg/g	0.101	2.41
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	1.99	pg/g	0.202	2.41
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	1.44	pg/g	0.183	2.41
	TEQ WHO2005 ND=0 with EMPCs		0.584	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.612	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		182	193	pg/g	95	(25%-164%)
13C-1,2,3,7,8-PeCDD		168	193	pg/g	87	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		184	193	pg/g	96	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		178	193	pg/g	92	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		163	193	pg/g	84	(23%-140%)
13C-OCDD		264	385	pg/g	69	(17%-157%)
13C-2,3,7,8-TCDF		172	193	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		174	193	pg/g	90	(24%-185%)
13C-2,3,4,7,8-PeCDF		187	193	pg/g	97	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		204	193	pg/g	106	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		175	193	pg/g	91	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		178	193	pg/g	93	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		182	193	pg/g	94	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		180	193	pg/g	93	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084001	Date Collected: 09/30/2009 11:15	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 3.5
Client ID: HZBS0178S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/05/2009 20:37	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-5		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 10.75 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			160	193	pg/g	83 (26%-138%)
37Cl-2,3,7,8-TCDD			17.1	19.3	pg/g	89 (35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084001	Date Collected: 09/30/2009 11:15	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 3.5
Client ID: HZBS0178S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 16:10	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-4		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 10.75 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.883	pg/g	0.216	0.963

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084002	Date Collected: 09/30/2009 11:30	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 6.8
Client ID: HZBS0178S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/05/2009 23:01	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-8		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.34 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.18	pg/g	0.180	0.473
40321-76-4	1,2,3,7,8-PeCDD	JK	0.199	pg/g	0.145	2.37
39227-28-6	1,2,3,4,7,8-HxCDD	J	0.242	pg/g	0.210	2.37
57653-85-7	1,2,3,6,7,8-HxCDD	U	.227	pg/g	0.227	2.37
19408-74-3	1,2,3,7,8,9-HxCDD	JK	0.301	pg/g	0.229	2.37
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	0.460	pg/g	0.380	2.37
3268-87-9	1,2,3,4,5,6,7,8-OCDD	JK	1.67	pg/g	0.837	4.73
51207-31-9	2,3,7,8-TCDF	JK	0.422	pg/g	0.199	0.473
57117-41-6	1,2,3,7,8-PeCDF	J	0.199	pg/g	0.122	2.37
57117-31-4	2,3,4,7,8-PeCDF	J	0.201	pg/g	0.120	2.37
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.231	pg/g	0.147	2.37
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.206	pg/g	0.152	2.37
60851-34-5	2,3,4,6,7,8-HxCDF	JK	0.252	pg/g	0.156	2.37
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.314	pg/g	0.210	2.37
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.284	pg/g	0.193	2.37
55673-89-7	1,2,3,4,7,8,9-HpCDF	JK	0.379	pg/g	0.361	2.37
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	.791	pg/g	0.791	4.73
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.18	pg/g	0.180	0.473
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.199	pg/g	0.145	2.37
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	0.543	pg/g	0.210	2.37
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	0.460	pg/g	0.380	2.37
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.693	pg/g	0.199	0.473
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.399	pg/g	0.120	2.37
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	1.00	pg/g	0.147	2.37
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.662	pg/g	0.193	2.37
	TEQ WHO2005 ND=0 with EMPCs		0.473	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.485	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		165	189	pg/g	87	(25%-164%)
13C-1,2,3,7,8-PeCDD		178	189	pg/g	94	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		172	189	pg/g	91	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		175	189	pg/g	93	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		151	189	pg/g	80	(23%-140%)
13C-OCDD		255	379	pg/g	67	(17%-157%)
13C-2,3,7,8-TCDF		164	189	pg/g	87	(25%-164%)
13C-1,2,3,7,8-PeCDF		163	189	pg/g	86	(24%-185%)
13C-2,3,4,7,8-PeCDF		171	189	pg/g	90	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		181	189	pg/g	95	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		164	189	pg/g	86	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		178	189	pg/g	94	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		177	189	pg/g	94	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		165	189	pg/g	87	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084002	Date Collected: 09/30/2009 11:30	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 6.8
Client ID: HZBS0178S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/05/2009 23:01	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-8		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.34 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			150	189	pg/g	79
37Cl-2,3,7,8-TCDD			15.1	18.9	pg/g	80
						(26%-138%)
						(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084002	Date Collected: 09/30/2009 11:30	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 6.8
Client ID: HZBS0178S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 17:15	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-7		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.34 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.566	pg/g	0.139	0.946

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084003	Date Collected: 09/30/2009 12:40	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 11.7
Client ID: HZBS0179S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/05/2009 23:49	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-9		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.97 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.161	pg/g	0.161	0.473
40321-76-4	1,2,3,7,8-PeCDD	JK	0.182	pg/g	0.172	2.37
39227-28-6	1,2,3,4,7,8-HxCDD	U	.212	pg/g	0.212	2.37
57653-85-7	1,2,3,6,7,8-HxCDD	JK	0.329	pg/g	0.223	2.37
19408-74-3	1,2,3,7,8,9-HxCDD	JK	0.401	pg/g	0.229	2.37
35822-46-9	1,2,3,4,6,7,8-HpCDD		4.56	pg/g	0.388	2.37
3268-87-9	1,2,3,4,5,6,7,8-OCDD		28.6	pg/g	0.765	4.73
51207-31-9	2,3,7,8-TCDF		0.564	pg/g	0.275	0.473
57117-41-6	1,2,3,7,8-PeCDF	U	.193	pg/g	0.193	2.37
57117-31-4	2,3,4,7,8-PeCDF	J	0.309	pg/g	0.171	2.37
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.159	pg/g	0.143	2.37
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.218	pg/g	0.148	2.37
60851-34-5	2,3,4,6,7,8-HxCDF	JK	0.184	pg/g	0.158	2.37
72918-21-9	1,2,3,7,8,9-HxCDF	U	.222	pg/g	0.222	2.37
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	0.676	pg/g	0.191	2.37
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.35	pg/g	0.350	2.37
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	1.28	pg/g	0.719	4.73
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.252	pg/g	0.161	0.473
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.399	pg/g	0.172	2.37
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		2.50	pg/g	0.212	2.37
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		11.9	pg/g	0.388	2.37
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	2.27	pg/g	0.275	0.473
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		2.78	pg/g	0.0869	2.37
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	1.85	pg/g	0.143	2.37
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	1.41	pg/g	0.191	2.37
	TEQ WHO2005 ND=0 with EMPCs		0.521	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.521	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		172	189	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDD		165	189	pg/g	87	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		179	189	pg/g	95	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		171	189	pg/g	91	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		155	189	pg/g	82	(23%-140%)
13C-OCDD		275	379	pg/g	73	(17%-157%)
13C-2,3,7,8-TCDF		168	189	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		163	189	pg/g	86	(24%-185%)
13C-2,3,4,7,8-PeCDF		182	189	pg/g	96	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		190	189	pg/g	100	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		172	189	pg/g	91	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		177	189	pg/g	94	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		173	189	pg/g	91	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		170	189	pg/g	90	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084003	Date Collected: 09/30/2009 12:40	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 11.7
Client ID: HZBS0179S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/05/2009 23:49	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-9		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.97 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			160	189	pg/g	85
37Cl-2,3,7,8-TCDD			15.7	18.9	pg/g	83
						(26%-138%)
						(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084003	Date Collected: 09/30/2009 12:40	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 11.7
Client ID: HZBS0179S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 17:36	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-8		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.97 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.625	pg/g	0.159	0.947

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084004	Date Collected: 09/30/2009 12:50	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.4
Client ID: HZBS0179S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 00:37	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-10		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.5 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.175	pg/g	0.175	0.910
40321-76-4	1,2,3,7,8-PeCDD	U	.146	pg/g	0.146	4.55
39227-28-6	1,2,3,4,7,8-HxCDD	U	.222	pg/g	0.222	4.55
57653-85-7	1,2,3,6,7,8-HxCDD	U	.244	pg/g	0.244	4.55
19408-74-3	1,2,3,7,8,9-HxCDD	U	.244	pg/g	0.244	4.55
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	.429	pg/g	0.429	4.55
3268-87-9	1,2,3,4,5,6,7,8-OCDD	U	.906	pg/g	0.906	9.10
51207-31-9	2,3,7,8-TCDF	JK	0.322	pg/g	0.209	0.910
57117-41-6	1,2,3,7,8-PeCDF	U	.115	pg/g	0.115	4.55
57117-31-4	2,3,4,7,8-PeCDF	U	.12	pg/g	0.120	4.55
70648-26-9	1,2,3,4,7,8-HxCDF	U	.142	pg/g	0.142	4.55
57117-44-9	1,2,3,6,7,8-HxCDF	U	.142	pg/g	0.142	4.55
60851-34-5	2,3,4,6,7,8-HxCDF	U	.152	pg/g	0.152	4.55
72918-21-9	1,2,3,7,8,9-HxCDF	U	.22	pg/g	0.220	4.55
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.2	pg/g	0.200	4.55
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.388	pg/g	0.388	4.55
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	.863	pg/g	0.863	9.10
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.175	pg/g	0.175	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.146	pg/g	0.146	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.222	pg/g	0.222	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	U	.429	pg/g	0.429	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.604	pg/g	0.209	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	.115	pg/g	0.115	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	.142	pg/g	0.142	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	.2	pg/g	0.200	
	TEQ WHO2005 ND=0 with EMPCs		0.0322	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.0332	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		163	182	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDD		153	182	pg/g	84	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		168	182	pg/g	93	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		172	182	pg/g	94	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		146	182	pg/g	80	(23%-140%)
13C-OCDD		233	364	pg/g	64	(17%-157%)
13C-2,3,7,8-TCDF		161	182	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		155	182	pg/g	85	(24%-185%)
13C-2,3,4,7,8-PeCDF		162	182	pg/g	89	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		175	182	pg/g	96	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		162	182	pg/g	89	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		168	182	pg/g	92	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		161	182	pg/g	88	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		159	182	pg/g	87	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084004	Date Collected: 09/30/2009 12:50	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.4
Client ID: HZBS0179S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 00:37	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-10		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.5 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		144	182	pg/g	79	(26%-138%)
37Cl-2,3,7,8-TCDD		15.1	18.2	pg/g	83	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084004	Date Collected: 09/30/2009 12:50	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.4
Client ID: HZBS0179S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 17:58	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-9		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.5 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.413	pg/g	0.149	0.910

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084005	Date Collected: 09/30/2009 13:15	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.6
Client ID: HZET0718S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 01:25	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-11		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 13.62 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.157	pg/g	0.157	0.770
40321-76-4	1,2,3,7,8-PeCDD	JK	0.825	pg/g	0.151	3.85
39227-28-6	1,2,3,4,7,8-HxCDD	J	1.34	pg/g	0.272	3.85
57653-85-7	1,2,3,6,7,8-HxCDD		5.11	pg/g	0.303	3.85
19408-74-3	1,2,3,7,8,9-HxCDD	J	2.44	pg/g	0.302	3.85
35822-46-9	1,2,3,4,6,7,8-HpCDD		158	pg/g	0.863	3.85
3268-87-9	1,2,3,4,5,6,7,8-OCDD		2550	pg/g	1.19	7.70
51207-31-9	2,3,7,8-TCDF		1.23	pg/g	0.300	0.770
57117-41-6	1,2,3,7,8-PeCDF	J	1.30	pg/g	0.171	3.85
57117-31-4	2,3,4,7,8-PeCDF	J	1.13	pg/g	0.163	3.85
70648-26-9	1,2,3,4,7,8-HxCDF	J	1.52	pg/g	0.222	3.85
57117-44-9	1,2,3,6,7,8-HxCDF	J	1.15	pg/g	0.231	3.85
60851-34-5	2,3,4,6,7,8-HxCDF	J	1.09	pg/g	0.239	3.85
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.814	pg/g	0.283	3.85
67562-39-4	1,2,3,4,6,7,8-HpCDF		17.3	pg/g	0.202	3.85
55673-89-7	1,2,3,4,7,8,9-HpCDF	J	1.03	pg/g	0.389	3.85
39001-02-0	1,2,3,4,5,6,7,8-OCDF		64.8	pg/g	0.500	7.70
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		0.223	pg/g	0.157	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs		4.41	pg/g	0.151	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		36.3	pg/g	0.272	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		574	pg/g	0.863	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	6.06	pg/g	0.300	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		15.2	pg/g	0.0791	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		28.2	pg/g	0.222	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		57.2	pg/g	0.202	
	TEQ WHO2005 ND=0 with EMPCs		5.22	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		5.30	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		141	154	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDD		136	154	pg/g	88	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		145	154	pg/g	94	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		137	154	pg/g	89	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		134	154	pg/g	87	(23%-140%)
13C-OCDD		254	308	pg/g	83	(17%-157%)
13C-2,3,7,8-TCDF		136	154	pg/g	88	(25%-164%)
13C-1,2,3,7,8-PeCDF		141	154	pg/g	92	(24%-185%)
13C-2,3,4,7,8-PeCDF		145	154	pg/g	94	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		147	154	pg/g	96	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		132	154	pg/g	86	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		144	154	pg/g	93	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		144	154	pg/g	93	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		145	154	pg/g	94	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084005	Date Collected: 09/30/2009 13:15	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.6
Client ID: HZET0718S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 01:25	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-11		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 13.62 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		133	154	pg/g	87	(26%-138%)
37Cl-2,3,7,8-TCDD		13.2	15.4	pg/g	86	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
J Value is estimated
K Estimated Maximum Possible Concentration
U Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084005	Date Collected: 09/30/2009 13:15	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.6
Client ID: HZET0718S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 18:19	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-10		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 13.62 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF		0.774	pg/g	0.150	0.770

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084006	Date Collected: 09/30/2009 13:35	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.2
Client ID: HZET0719S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 02:13	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-12		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.06 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.152	pg/g	0.152	0.866
40321-76-4	1,2,3,7,8-PeCDD	U	.14	pg/g	0.140	4.33
39227-28-6	1,2,3,4,7,8-HxCDD	U	.197	pg/g	0.197	4.33
57653-85-7	1,2,3,6,7,8-HxCDD	U	.213	pg/g	0.213	4.33
19408-74-3	1,2,3,7,8,9-HxCDD	U	.216	pg/g	0.216	4.33
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	3.82	pg/g	0.369	4.33
3268-87-9	1,2,3,4,5,6,7,8-OCDD		41.4	pg/g	0.741	8.66
51207-31-9	2,3,7,8-TCDF	JK	0.334	pg/g	0.199	0.866
57117-41-6	1,2,3,7,8-PeCDF	U	.109	pg/g	0.109	4.33
57117-31-4	2,3,4,7,8-PeCDF	U	.107	pg/g	0.107	4.33
70648-26-9	1,2,3,4,7,8-HxCDF	U	.141	pg/g	0.141	4.33
57117-44-9	1,2,3,6,7,8-HxCDF	U	.142	pg/g	0.142	4.33
60851-34-5	2,3,4,6,7,8-HxCDF	U	.144	pg/g	0.144	4.33
72918-21-9	1,2,3,7,8,9-HxCDF	U	.209	pg/g	0.209	4.33
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.516	pg/g	0.184	4.33
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.357	pg/g	0.357	4.33
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	2.11	pg/g	0.760	8.66
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.152	pg/g	0.152	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.14	pg/g	0.140	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		0.779	pg/g	0.197	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		11.4	pg/g	0.369	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.576	pg/g	0.199	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	.084	pg/g	0.084	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		0.431	pg/g	0.141	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		1.60	pg/g	0.184	
	TEQ WHO2005 ND=0 with EMPCs		0.0898	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.118	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		152	173	pg/g	88	(25%-164%)
13C-1,2,3,7,8-PeCDD		149	173	pg/g	86	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		162	173	pg/g	93	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		155	173	pg/g	90	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		144	173	pg/g	83	(23%-140%)
13C-OCDD		231	346	pg/g	67	(17%-157%)
13C-2,3,7,8-TCDF		148	173	pg/g	85	(25%-164%)
13C-1,2,3,7,8-PeCDF		149	173	pg/g	86	(24%-185%)
13C-2,3,4,7,8-PeCDF		158	173	pg/g	91	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		165	173	pg/g	96	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		153	173	pg/g	88	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		161	173	pg/g	93	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		155	173	pg/g	89	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		153	173	pg/g	88	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084006	Date Collected: 09/30/2009 13:35	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.2
Client ID: HZET0719S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 02:13	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-12		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.06 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		143	173	pg/g	83	(26%-138%)
37Cl-2,3,7,8-TCDD		14.0	17.3	pg/g	81	(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084006	Date Collected: 09/30/2009 13:35	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.2
Client ID: HZET0719S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 18:41	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-11		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.06 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	JK	0.362	pg/g	0.133	0.866

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084007	Date Collected: 09/30/2009 13:55	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 5.9
Client ID: HZET0720S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 03:01	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-13		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.8 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.164	pg/g	0.164	0.900
40321-76-4	1,2,3,7,8-PeCDD	U	.138	pg/g	0.138	4.50
39227-28-6	1,2,3,4,7,8-HxCDD	U	.185	pg/g	0.185	4.50
57653-85-7	1,2,3,6,7,8-HxCDD	U	.203	pg/g	0.203	4.50
19408-74-3	1,2,3,7,8,9-HxCDD	U	.203	pg/g	0.203	4.50
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	0.443	pg/g	0.439	4.50
3268-87-9	1,2,3,4,5,6,7,8-OCDD	J	3.21	pg/g	0.825	9.00
51207-31-9	2,3,7,8-TCDF	J	0.369	pg/g	0.189	0.900
57117-41-6	1,2,3,7,8-PeCDF	U	.113	pg/g	0.113	4.50
57117-31-4	2,3,4,7,8-PeCDF	U	.114	pg/g	0.114	4.50
70648-26-9	1,2,3,4,7,8-HxCDF	U	.132	pg/g	0.132	4.50
57117-44-9	1,2,3,6,7,8-HxCDF	U	.136	pg/g	0.136	4.50
60851-34-5	2,3,4,6,7,8-HxCDF	U	.146	pg/g	0.146	4.50
72918-21-9	1,2,3,7,8,9-HxCDF	U	.203	pg/g	0.203	4.50
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.18	pg/g	0.180	4.50
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.338	pg/g	0.338	4.50
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	.798	pg/g	0.798	9.00
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.164	pg/g	0.164	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.138	pg/g	0.138	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.185	pg/g	0.185	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		1.18	pg/g	0.439	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.652	pg/g	0.189	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	.113	pg/g	0.113	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	.132	pg/g	0.132	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	.18	pg/g	0.180	
	TEQ WHO2005 ND=0 with EMPCs		0.0423	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.0423	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		167	180	pg/g	93	(25%-164%)
13C-1,2,3,7,8-PeCDD		163	180	pg/g	91	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		172	180	pg/g	95	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		170	180	pg/g	95	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		153	180	pg/g	85	(23%-140%)
13C-OCDD		260	360	pg/g	72	(17%-157%)
13C-2,3,7,8-TCDF		163	180	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDF		166	180	pg/g	92	(24%-185%)
13C-2,3,4,7,8-PeCDF		175	180	pg/g	97	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		179	180	pg/g	99	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		164	180	pg/g	91	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		173	180	pg/g	96	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		166	180	pg/g	92	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		163	180	pg/g	91	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084007	Date Collected: 09/30/2009 13:55	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 5.9
Client ID: HZET0720S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 03:01	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-13		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.8 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		151	180	pg/g	84	(26%-138%)
37Cl-2,3,7,8-TCDD		15.4	18.0	pg/g	86	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084007	Date Collected: 09/30/2009 13:55	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 5.9
Client ID: HZET0720S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 19:03	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-12		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.8 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.438	pg/g	0.149	0.900

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084008	Date Collected: 09/30/2009 14:05	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 8.3
Client ID: HZET0721S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 03:49	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-14		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.35 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.187	pg/g	0.187	0.883
40321-76-4	1,2,3,7,8-PeCDD	U	.166	pg/g	0.166	4.41
39227-28-6	1,2,3,4,7,8-HxCDD	U	.208	pg/g	0.208	4.41
57653-85-7	1,2,3,6,7,8-HxCDD	U	.244	pg/g	0.244	4.41
19408-74-3	1,2,3,7,8,9-HxCDD	U	.237	pg/g	0.237	4.41
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	0.494	pg/g	0.431	4.41
3268-87-9	1,2,3,4,5,6,7,8-OCDD	J	3.08	pg/g	0.848	8.83
51207-31-9	2,3,7,8-TCDF	JK	0.330	pg/g	0.208	0.883
57117-41-6	1,2,3,7,8-PeCDF	U	.138	pg/g	0.138	4.41
57117-31-4	2,3,4,7,8-PeCDF	U	.127	pg/g	0.127	4.41
70648-26-9	1,2,3,4,7,8-HxCDF	U	.136	pg/g	0.136	4.41
57117-44-9	1,2,3,6,7,8-HxCDF	U	.145	pg/g	0.145	4.41
60851-34-5	2,3,4,6,7,8-HxCDF	U	.151	pg/g	0.151	4.41
72918-21-9	1,2,3,7,8,9-HxCDF	U	.217	pg/g	0.217	4.41
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.208	pg/g	0.208	4.41
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.396	pg/g	0.396	4.41
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	.8	pg/g	0.800	8.83
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.187	pg/g	0.187	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.166	pg/g	0.166	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.208	pg/g	0.208	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		1.03	pg/g	0.431	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.705	pg/g	0.208	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	.127	pg/g	0.127	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	.136	pg/g	0.136	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	.208	pg/g	0.208	
	TEQ WHO2005 ND=0 with EMPCs		0.0389	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.0849	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		153	177	pg/g	87	(25%-164%)
13C-1,2,3,7,8-PeCDD		146	177	pg/g	82	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		162	177	pg/g	92	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		163	177	pg/g	93	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		147	177	pg/g	84	(23%-140%)
13C-OCDD		251	353	pg/g	71	(17%-157%)
13C-2,3,7,8-TCDF		153	177	pg/g	86	(25%-164%)
13C-1,2,3,7,8-PeCDF		142	177	pg/g	81	(24%-185%)
13C-2,3,4,7,8-PeCDF		163	177	pg/g	93	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		171	177	pg/g	97	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		155	177	pg/g	88	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		165	177	pg/g	93	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		156	177	pg/g	88	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		162	177	pg/g	91	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084008	Date Collected: 09/30/2009 14:05	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 8.3
Client ID: HZET0721S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 03:49	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a-14		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.35 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		151	177	pg/g	85	(26%-138%)
37Cl-2,3,7,8-TCDD		14.4	17.7	pg/g	82	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084008	Date Collected: 09/30/2009 14:05	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 8.3
Client ID: HZET0721S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 19:24	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-13		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.35 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.396	pg/g	0.146	0.883

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084009	Date Collected: 09/30/2009 14:16	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4
Client ID: HZET0722S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 06:20	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-2		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.68 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.186	pg/g	0.186	0.892
40321-76-4	1,2,3,7,8-PeCDD	U	.182	pg/g	0.182	4.46
39227-28-6	1,2,3,4,7,8-HxCDD	U	.219	pg/g	0.219	4.46
57653-85-7	1,2,3,6,7,8-HxCDD	U	.243	pg/g	0.243	4.46
19408-74-3	1,2,3,7,8,9-HxCDD	U	.243	pg/g	0.243	4.46
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	1.95	pg/g	0.503	4.46
3268-87-9	1,2,3,4,5,6,7,8-OCDD		36.8	pg/g	1.32	8.92
51207-31-9	2,3,7,8-TCDF	JK	0.325	pg/g	0.202	0.892
57117-41-6	1,2,3,7,8-PeCDF	JK	0.203	pg/g	0.157	4.46
57117-31-4	2,3,4,7,8-PeCDF	JK	0.214	pg/g	0.154	4.46
70648-26-9	1,2,3,4,7,8-HxCDF	JK	0.239	pg/g	0.146	4.46
57117-44-9	1,2,3,6,7,8-HxCDF	U	.158	pg/g	0.158	4.46
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.209	pg/g	0.154	4.46
72918-21-9	1,2,3,7,8,9-HxCDF	U	.209	pg/g	0.209	4.46
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.630	pg/g	0.230	4.46
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.466	pg/g	0.466	4.46
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	1.63	pg/g	0.912	8.92
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.186	pg/g	0.186	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.182	pg/g	0.182	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.219	pg/g	0.219	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		9.30	pg/g	0.503	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.576	pg/g	0.202	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		0.550	pg/g	0.104	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		1.37	pg/g	0.146	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		1.46	pg/g	0.230	
	TEQ WHO2005 ND=0 with EMPCs		0.185	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.197	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		160	178	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDD		144	178	pg/g	80	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		159	178	pg/g	89	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		156	178	pg/g	88	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		143	178	pg/g	80	(23%-140%)
13C-OCDD		232	357	pg/g	65	(17%-157%)
13C-2,3,7,8-TCDF		159	178	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		152	178	pg/g	85	(24%-185%)
13C-2,3,4,7,8-PeCDF		155	178	pg/g	87	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		167	178	pg/g	94	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		149	178	pg/g	83	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		159	178	pg/g	89	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		162	178	pg/g	91	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		160	178	pg/g	89	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084009	Date Collected: 09/30/2009 14:16	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4
Client ID: HZET0722S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 06:20	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-2		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.68 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		143	178	pg/g	80	(26%-138%)
37Cl-2,3,7,8-TCDD		14.4	17.8	pg/g	81	(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084009	Date Collected: 09/30/2009 14:16	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4
Client ID: HZET0722S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 19:46	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-14		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.68 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.325	pg/g	0.117	0.892

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084010	Date Collected: 09/30/2009 14:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 8.5
Client ID: HZET0723S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 07:08	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-3		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.66 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.299	pg/g	0.299	0.863
40321-76-4	1,2,3,7,8-PeCDD	U	.278	pg/g	0.278	4.32
39227-28-6	1,2,3,4,7,8-HxCDD	U	.371	pg/g	0.371	4.32
57653-85-7	1,2,3,6,7,8-HxCDD	U	.411	pg/g	0.411	4.32
19408-74-3	1,2,3,7,8,9-HxCDD	U	.409	pg/g	0.409	4.32
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	1.48	pg/g	0.846	4.32
3268-87-9	1,2,3,4,5,6,7,8-OCDD		14.9	pg/g	2.30	8.63
51207-31-9	2,3,7,8-TCDF	JK	0.468	pg/g	0.359	0.863
57117-41-6	1,2,3,7,8-PeCDF	U	.216	pg/g	0.216	4.32
57117-31-4	2,3,4,7,8-PeCDF	U	.211	pg/g	0.211	4.32
70648-26-9	1,2,3,4,7,8-HxCDF	U	.254	pg/g	0.254	4.32
57117-44-9	1,2,3,6,7,8-HxCDF	U	.257	pg/g	0.257	4.32
60851-34-5	2,3,4,6,7,8-HxCDF	U	.278	pg/g	0.278	4.32
72918-21-9	1,2,3,7,8,9-HxCDF	U	.425	pg/g	0.425	4.32
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.470	pg/g	0.364	4.32
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.82	pg/g	0.820	4.32
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	1.76	pg/g	1.76	8.63
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.299	pg/g	0.299	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.278	pg/g	0.278	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.371	pg/g	0.371	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		4.70	pg/g	0.846	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.468	pg/g	0.359	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	.173	pg/g	0.173	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	.254	pg/g	0.254	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		1.04	pg/g	0.364	
	TEQ WHO2005 ND=0 with EMPCs		0.0708	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.0708	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		150	173	pg/g	87	(25%-164%)
13C-1,2,3,7,8-PeCDD		130	173	pg/g	75	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		159	173	pg/g	92	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		158	173	pg/g	91	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		133	173	pg/g	77	(23%-140%)
13C-OCDD		204	345	pg/g	59	(17%-157%)
13C-2,3,7,8-TCDF		148	173	pg/g	86	(25%-164%)
13C-1,2,3,7,8-PeCDF		138	173	pg/g	80	(24%-185%)
13C-2,3,4,7,8-PeCDF		138	173	pg/g	80	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		164	173	pg/g	95	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		155	173	pg/g	90	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		159	173	pg/g	92	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		145	173	pg/g	84	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		144	173	pg/g	84	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084010	Date Collected: 09/30/2009 14:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 8.5
Client ID: HZET0723S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 07:08	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-3		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.66 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			126	173	pg/g	73
37Cl-2,3,7,8-TCDD			13.8	17.3	pg/g	80
						(26%-138%)
						(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084010	Date Collected: 09/30/2009 14:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 8.5
Client ID: HZET0723S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 20:07	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-15		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.66 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.385	pg/g	0.150	0.863

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084011	Date Collected: 09/30/2009 13:30	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.7
Client ID: HZET0724S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 07:56	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-4		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.26 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.362	pg/g	0.362	0.932
40321-76-4	1,2,3,7,8-PeCDD	U	.384	pg/g	0.384	4.66
39227-28-6	1,2,3,4,7,8-HxCDD	U	.516	pg/g	0.516	4.66
57653-85-7	1,2,3,6,7,8-HxCDD	U	.552	pg/g	0.552	4.66
19408-74-3	1,2,3,7,8,9-HxCDD	U	.561	pg/g	0.561	4.66
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	1.01	pg/g	1.01	4.66
3268-87-9	1,2,3,4,5,6,7,8-OCDD	U	2.46	pg/g	2.46	9.32
51207-31-9	2,3,7,8-TCDF	U	.406	pg/g	0.406	0.932
57117-41-6	1,2,3,7,8-PeCDF	U	.233	pg/g	0.233	4.66
57117-31-4	2,3,4,7,8-PeCDF	U	.235	pg/g	0.235	4.66
70648-26-9	1,2,3,4,7,8-HxCDF	U	.308	pg/g	0.308	4.66
57117-44-9	1,2,3,6,7,8-HxCDF	U	.306	pg/g	0.306	4.66
60851-34-5	2,3,4,6,7,8-HxCDF	U	.328	pg/g	0.328	4.66
72918-21-9	1,2,3,7,8,9-HxCDF	U	.503	pg/g	0.503	4.66
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.522	pg/g	0.522	4.66
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	1.09	pg/g	1.09	4.66
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	2.29	pg/g	2.29	9.32
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.362	pg/g	0.362	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.384	pg/g	0.384	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.516	pg/g	0.516	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	U	1.01	pg/g	1.01	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	U	.406	pg/g	0.406	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	.233	pg/g	0.233	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	.306	pg/g	0.306	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	.522	pg/g	0.522	
	TEQ WHO2005 ND=0 with EMPCs		0.00	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.0203	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		160	186	pg/g	86	(25%-164%)
13C-1,2,3,7,8-PeCDD		138	186	pg/g	74	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		177	186	pg/g	95	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		174	186	pg/g	93	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		145	186	pg/g	78	(23%-140%)
13C-OCDD		213	373	pg/g	57	(17%-157%)
13C-2,3,7,8-TCDF		162	186	pg/g	87	(25%-164%)
13C-1,2,3,7,8-PeCDF		147	186	pg/g	79	(24%-185%)
13C-2,3,4,7,8-PeCDF		150	186	pg/g	81	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		187	186	pg/g	100	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		177	186	pg/g	95	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		178	186	pg/g	95	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		161	186	pg/g	86	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		161	186	pg/g	86	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084011	Date Collected: 09/30/2009 13:30	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.7
Client ID: HZET0724S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 07:56	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-4		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.26 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			139	186	pg/g	74 (26%-138%)
37Cl-2,3,7,8-TCDD			15.0	18.6	pg/g	81 (35%-197%)

Comments:

U Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084012	Date Collected: 09/30/2009 13:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.1
Client ID: HZET0725S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 08:44	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-5		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.6 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.232	pg/g	0.232	0.899
40321-76-4	1,2,3,7,8-PeCDD	U	.244	pg/g	0.244	4.49
39227-28-6	1,2,3,4,7,8-HxCDD	J	0.370	pg/g	0.334	4.49
57653-85-7	1,2,3,6,7,8-HxCDD	U	.347	pg/g	0.347	4.49
19408-74-3	1,2,3,7,8,9-HxCDD	J	0.467	pg/g	0.358	4.49
35822-46-9	1,2,3,4,6,7,8-HpCDD		7.30	pg/g	0.683	4.49
3268-87-9	1,2,3,4,5,6,7,8-OCDD		122	pg/g	1.63	8.99
51207-31-9	2,3,7,8-TCDF	J	0.410	pg/g	0.307	0.899
57117-41-6	1,2,3,7,8-PeCDF	U	.223	pg/g	0.223	4.49
57117-31-4	2,3,4,7,8-PeCDF	U	.227	pg/g	0.227	4.49
70648-26-9	1,2,3,4,7,8-HxCDF	U	.262	pg/g	0.262	4.49
57117-44-9	1,2,3,6,7,8-HxCDF	U	.259	pg/g	0.259	4.49
60851-34-5	2,3,4,6,7,8-HxCDF	U	.279	pg/g	0.279	4.49
72918-21-9	1,2,3,7,8,9-HxCDF	U	.424	pg/g	0.424	4.49
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	1.04	pg/g	0.338	4.49
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.662	pg/g	0.662	4.49
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	3.69	pg/g	1.47	8.99
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.232	pg/g	0.232	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.244	pg/g	0.244	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		2.03	pg/g	0.334	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		22.9	pg/g	0.683	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.888	pg/g	0.307	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		0.268	pg/g	0.151	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		0.768	pg/g	0.259	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		2.21	pg/g	0.338	
	TEQ WHO2005 ND=0 with EMPCs		0.246	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.318	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		163	180	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDD		146	180	pg/g	81	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		172	180	pg/g	96	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		167	180	pg/g	93	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		149	180	pg/g	83	(23%-140%)
13C-OCDD		226	360	pg/g	63	(17%-157%)
13C-2,3,7,8-TCDF		165	180	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDF		153	180	pg/g	85	(24%-185%)
13C-2,3,4,7,8-PeCDF		157	180	pg/g	87	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		179	180	pg/g	99	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		169	180	pg/g	94	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		172	180	pg/g	96	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		161	180	pg/g	90	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		161	180	pg/g	90	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084012	Date Collected: 09/30/2009 13:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.1
Client ID: HZET0725S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 08:44	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-5		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.6 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		144	180	pg/g	80	(26%-138%)
37Cl-2,3,7,8-TCDD		14.7	18.0	pg/g	82	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 238180	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1084012	Date Collected: 09/30/2009 13:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 10/01/2009 09:50	%Moisture: 4.1
Client ID: HZET0725S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 20:29	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-16		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.6 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	JK	0.381	pg/g	0.138	0.899

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 238180_2
Lab Sample ID: 1089001
Client Sample: 1613 Water
Client ID: EBQW2248
Batch ID: 2753
Run Date: 10/10/2009 08:00
Data File: b09oct09a_2-4
Prep Batch: 2632
Prep Date: 07-OCT-09

Client: BOEN001
Date Collected: 09/30/2009 14:45
Date Received: 10/01/2009 09:40
Method: EPA Method 1613B
Analyst: HMP
Prep Method: SW846 3520C
Aliquot: 1051.2 mL

Project: BOEN00309
Matrix: WATER
Prep Basis: As Received
Instrument: HRP763
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.83	pg/L	1.83	9.51
40321-76-4	1,2,3,7,8-PeCDD	U	1.6	pg/L	1.60	47.6
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.23	pg/L	2.23	47.6
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.38	pg/L	2.38	47.6
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.42	pg/L	2.42	47.6
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	4.91	pg/L	4.91	47.6
3268-87-9	1,2,3,4,5,6,7,8-OCDD	U	11	pg/L	11.0	95.1
51207-31-9	2,3,7,8-TCDF	U	1.89	pg/L	1.89	9.51
57117-41-6	1,2,3,7,8-PeCDF	U	1.23	pg/L	1.23	47.6
57117-31-4	2,3,4,7,8-PeCDF	U	1.24	pg/L	1.24	47.6
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.66	pg/L	1.66	47.6
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.56	pg/L	1.56	47.6
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.7	pg/L	1.70	47.6
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.89	pg/L	2.89	47.6
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	2.51	pg/L	2.51	47.6
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	4.89	pg/L	4.89	47.6
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	10.7	pg/L	10.7	95.1
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	1.83	pg/L	1.83	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	1.6	pg/L	1.60	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		0.00	pg/L		
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		0.00	pg/L		
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	U	1.89	pg/L	1.89	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	1.23	pg/L	1.23	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		0.00	pg/L		
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		0.00	pg/L		
	TEQ WHO2005 ND=0 with EMPCs		0.00	pg/L		
	TEQ WHO2005 ND=0.5 with EMPCs		2.82	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1390	1900	pg/L	73	(25%-164%)
13C-1,2,3,7,8-PeCDD		1360	1900	pg/L	71	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1470	1900	pg/L	78	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1490	1900	pg/L	78	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1260	1900	pg/L	66	(23%-140%)
13C-OCDD		1800	3810	pg/L	47	(17%-157%)
13C-2,3,7,8-TCDF		1540	1900	pg/L	81	(25%-164%)
13C-1,2,3,7,8-PeCDF		1490	1900	pg/L	78	(24%-185%)
13C-2,3,4,7,8-PeCDF		1450	1900	pg/L	76	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1460	1900	pg/L	77	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1460	1900	pg/L	77	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1460	1900	pg/L	77	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1280	1900	pg/L	67	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1290	1900	pg/L	68	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238180_2	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1089001	Date Collected: 09/30/2009 14:45	Matrix: WATER
Client Sample: 1613 Water	Date Received: 10/01/2009 09:40	
Client ID: EBQW2248		Prep Basis: As Received
Batch ID: 2753	Method: EPA Method 1613B	
Run Date: 10/10/2009 08:00	Analyst: HMP	Instrument: HRP763
Data File: b09oct09a_2-4		Dilution: 1
Prep Batch: 2632	Prep Method: SW846 3520C	
Prep Date: 07-OCT-09	Aliquot: 1051.2 mL	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			1170	1900	pg/L	61 (26%-138%)
37Cl-2,3,7,8-TCDD			145	190	pg/L	76 (35%-197%)

Comments:

U Analyte was analyzed for , but not detected above the specified detection limit.



March 03, 2010

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

Re: SSFL
Project Number: 1891614.05462
Project Name: ISRA Sampling, August 2009
Work Order: 238234
SDG: 238234

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 02, 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. 4406.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.05462
Chain of Custody: MWHBM20091001_00
Enclosures

GC/MS Semivolatile Analysis

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234001

Client: SSFL001
Date Collected: 10/01/2009 15:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Water

Client ID: EBQW2249
Batch ID: 909409
Run Date: 10/06/2009 19:09
Data File: s5j0616.d
Prep Batch: 909408
Prep Date: 10/06/2009 13:08

Method: SW846 8270C Low Level
Analyst: RMB
Inj. Vol: .5 uL
Prep Method: SW846 3510C
Aliquot: 1060 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-009
Instrument: MSD5.I
Dilution: 1
Prep SOP Ref: GL-OA-E-013
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	0.472	ug/L	0.0943	0.472	10.0
83-32-9	Acenaphthene	U	0.472	ug/L	0.146	0.472	10.0
129-00-0	Pyrene	U	0.472	ug/L	0.142	0.472	10.0
91-20-3	Naphthalene	U	0.472	ug/L	0.142	0.472	10.0
91-57-6	2-Methylnaphthalene	U	0.472	ug/L	0.142	0.472	10.0
90-12-0	1-Methylnaphthalene	U	0.472	ug/L	0.142	0.472	10.0
131-11-3	Dimethylphthalate	U	0.472	ug/L	0.142	0.472	10.0
208-96-8	Acenaphthylene	U	0.472	ug/L	0.0943	0.472	10.0
84-66-2	Diethylphthalate	U	0.472	ug/L	0.142	0.472	10.0
86-73-7	Fluorene	U	0.472	ug/L	0.0943	0.472	10.0
85-01-8	Phenanthrene	U	0.472	ug/L	0.0943	0.472	10.0
120-12-7	Anthracene	U	0.472	ug/L	0.0943	0.472	10.0
84-74-2	Di-n-butylphthalate	U	0.472	ug/L	0.142	0.472	10.0
206-44-0	Fluoranthene	U	0.472	ug/L	0.0943	0.472	10.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	0.472	ug/L	0.142	0.472	10.0
56-55-3	Benzo(a)anthracene	U	0.472	ug/L	0.0943	0.472	10.0
218-01-9	Chrysene	U	0.472	ug/L	0.0943	0.472	10.0
117-81-7	bis(2-Ethylhexyl)phthalate	BJ	0.157	ug/L	0.142	0.472	10.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	0.472	ug/L	0.142	0.472	10.0
205-99-2	Benzo(b)fluoranthene	U	0.472	ug/L	0.0943	0.472	10.0
207-08-9	Benzo(k)fluoranthene	U	0.472	ug/L	0.0943	0.472	10.0
50-32-8	Benzo(a)pyrene	U	0.472	ug/L	0.0943	0.472	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.472	ug/L	0.0943	0.472	10.0
53-70-3	Dibenzo(a,h)anthracene	U	0.472	ug/L	0.0943	0.472	20.0
191-24-2	Benzo(ghi)perylene	U	0.472	ug/L	0.0943	0.472	10.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2-Fluorobiphenyl	15.3	23.6	ug/L	64.9	(35%-100%)
Nitrobenzene-d5	16.5	23.6	ug/L	69.9	(40%-112%)
p-Terphenyl-d14	19.0	23.6	ug/L	80.6	(46%-130%)
2,4,6-Tribromophenol	32.1	47.2	ug/L	68.0	(39%-115%)
2-Fluorophenol	12.8	47.2	ug/L	27.1	(25%-92%)
Phenol-d5	7.03	47.2	ug/L	14.9 *	(15%-73%)

Comments:

B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234002

Client: SSFL001
Date Collected: 10/01/2009 10:18
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2

Client ID: HVBF33AS01
Batch ID: 908815
Run Date: 10/06/2009 11:32
Data File: s3j0608.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.04 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.0	ug/kg	3.40	17.0	20.0
83-32-9	Acenaphthene	U	17.0	ug/kg	5.67	17.0	20.0
129-00-0	Pyrene	U	17.0	ug/kg	5.33	17.0	20.0
91-20-3	Naphthalene	U	17.0	ug/kg	5.10	17.0	20.0
91-57-6	2-Methylnaphthalene	U	17.0	ug/kg	3.40	17.0	20.0
90-12-0	1-Methylnaphthalene	U	17.0	ug/kg	5.10	17.0	20.0
131-11-3	Dimethylphthalate	U	17.0	ug/kg	5.10	17.0	20.0
208-96-8	Acenaphthylene	U	17.0	ug/kg	5.10	17.0	20.0
84-66-2	Diethylphthalate	U	17.0	ug/kg	5.10	17.0	20.0
86-73-7	Fluorene	U	17.0	ug/kg	5.10	17.0	20.0
85-01-8	Phenanthrene	U	17.0	ug/kg	5.10	17.0	20.0
120-12-7	Anthracene	U	17.0	ug/kg	3.40	17.0	20.0
84-74-2	Di-n-butylphthalate	U	17.0	ug/kg	5.10	17.0	20.0
206-44-0	Fluoranthene	U	17.0	ug/kg	5.10	17.0	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.0	ug/kg	5.10	17.0	20.0
56-55-3	Benzo(a)anthracene	U	17.0	ug/kg	5.10	17.0	20.0
218-01-9	Chrysene	U	17.0	ug/kg	5.10	17.0	20.0
117-81-7	bis(2-Ethylhexyl)phthalate		28.9	ug/kg	5.61	17.0	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.0	ug/kg	5.10	17.0	20.0
205-99-2	Benzo(b)fluoranthene	U	17.0	ug/kg	5.10	17.0	20.0
207-08-9	Benzo(k)fluoranthene	U	17.0	ug/kg	5.10	17.0	20.0
50-32-8	Benzo(a)pyrene	U	17.0	ug/kg	5.10	17.0	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.0	ug/kg	5.10	17.0	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.0	ug/kg	5.10	17.0	20.0
191-24-2	Benzo(ghi)perylene	U	17.0	ug/kg	5.10	17.0	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1230	1700	ug/kg	72.2	(37%-106%)
2-Fluorophenol	976	1700	ug/kg	57.4	(35%-96%)
Phenol-d5	970	1700	ug/kg	57.1	(36%-96%)
2-Fluorobiphenyl	560	849	ug/kg	66.0	(36%-100%)
Nitrobenzene-d5	396	849	ug/kg	46.7	(34%-104%)
p-Terphenyl-d14	739	849	ug/kg	87.0	(40%-124%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234003

Client: SSFL001
Date Collected: 10/01/2009 10:40
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 4.7

Client ID: HVBF33AS02
Batch ID: 908815
Run Date: 10/06/2009 11:53
Data File: s3j0609.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.02 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.5	ug/kg	3.50	17.5	20.0
83-32-9	Acenaphthene	U	17.5	ug/kg	5.84	17.5	20.0
129-00-0	Pyrene	U	17.5	ug/kg	5.49	17.5	20.0
91-20-3	Naphthalene	U	17.5	ug/kg	5.24	17.5	20.0
91-57-6	2-Methylnaphthalene	U	17.5	ug/kg	3.50	17.5	20.0
90-12-0	1-Methylnaphthalene	U	17.5	ug/kg	5.24	17.5	20.0
131-11-3	Dimethylphthalate	U	17.5	ug/kg	5.24	17.5	20.0
208-96-8	Acenaphthylene	U	17.5	ug/kg	5.24	17.5	20.0
84-66-2	Diethylphthalate	U	17.5	ug/kg	5.24	17.5	20.0
86-73-7	Fluorene	U	17.5	ug/kg	5.24	17.5	20.0
85-01-8	Phenanthrene	U	17.5	ug/kg	5.24	17.5	20.0
120-12-7	Anthracene	U	17.5	ug/kg	3.50	17.5	20.0
84-74-2	Di-n-butylphthalate	U	17.5	ug/kg	5.24	17.5	20.0
206-44-0	Fluoranthene	U	17.5	ug/kg	5.24	17.5	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.5	ug/kg	5.24	17.5	20.0
56-55-3	Benzo(a)anthracene	U	17.5	ug/kg	5.24	17.5	20.0
218-01-9	Chrysene	U	17.5	ug/kg	5.24	17.5	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	14.7	ug/kg	5.77	17.5	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.5	ug/kg	5.24	17.5	20.0
205-99-2	Benzo(b)fluoranthene	U	17.5	ug/kg	5.24	17.5	20.0
207-08-9	Benzo(k)fluoranthene	U	17.5	ug/kg	5.24	17.5	20.0
50-32-8	Benzo(a)pyrene	U	17.5	ug/kg	5.24	17.5	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.5	ug/kg	5.24	17.5	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.5	ug/kg	5.24	17.5	20.0
191-24-2	Benzo(ghi)perylene	U	17.5	ug/kg	5.24	17.5	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1340	1750	ug/kg	76.6	(37%-106%)
2-Fluorophenol	971	1750	ug/kg	55.6	(35%-96%)
Phenol-d5	942	1750	ug/kg	53.9	(36%-96%)
2-Fluorobiphenyl	498	874	ug/kg	57.0	(36%-100%)
Nitrobenzene-d5	395	874	ug/kg	45.2	(34%-104%)
p-Terphenyl-d14	738	874	ug/kg	84.5	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 238234
Lab Sample ID: 238234004

Client: SSFL001
Date Collected: 10/01/2009 14:35
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2.7

Client ID: HZBS0080AS001
Batch ID: 908815
Run Date: 10/06/2009 12:57
Data File: s3j0612.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.01 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.1	ug/kg	3.43	17.1	20.0
83-32-9	Acenaphthene	U	17.1	ug/kg	5.72	17.1	20.0
129-00-0	Pyrene	U	17.1	ug/kg	5.38	17.1	20.0
91-20-3	Naphthalene	U	17.1	ug/kg	5.14	17.1	20.0
91-57-6	2-Methylnaphthalene	U	17.1	ug/kg	3.43	17.1	20.0
90-12-0	1-Methylnaphthalene	U	17.1	ug/kg	5.14	17.1	20.0
131-11-3	Dimethylphthalate	U	17.1	ug/kg	5.14	17.1	20.0
208-96-8	Acenaphthylene	U	17.1	ug/kg	5.14	17.1	20.0
84-66-2	Diethylphthalate	U	17.1	ug/kg	5.14	17.1	20.0
86-73-7	Fluorene	U	17.1	ug/kg	5.14	17.1	20.0
85-01-8	Phenanthrene	U	17.1	ug/kg	5.14	17.1	20.0
120-12-7	Anthracene	U	17.1	ug/kg	3.43	17.1	20.0
84-74-2	Di-n-butylphthalate	U	17.1	ug/kg	5.14	17.1	20.0
206-44-0	Fluoranthene	U	17.1	ug/kg	5.14	17.1	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.1	ug/kg	5.14	17.1	20.0
56-55-3	Benzo(a)anthracene	U	17.1	ug/kg	5.14	17.1	20.0
218-01-9	Chrysene	U	17.1	ug/kg	5.14	17.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	11.8	ug/kg	5.65	17.1	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.1	ug/kg	5.14	17.1	20.0
205-99-2	Benzo(b)fluoranthene	U	17.1	ug/kg	5.14	17.1	20.0
207-08-9	Benzo(k)fluoranthene	U	17.1	ug/kg	5.14	17.1	20.0
50-32-8	Benzo(a)pyrene	U	17.1	ug/kg	5.14	17.1	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.1	ug/kg	5.14	17.1	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.1	ug/kg	5.14	17.1	20.0
191-24-2	Benzo(ghi)perylene	U	17.1	ug/kg	5.14	17.1	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1240	1710	ug/kg	72.2	(37%-106%)
2-Fluorophenol	990	1710	ug/kg	57.8	(35%-96%)
Phenol-d5	973	1710	ug/kg	56.8	(36%-96%)
2-Fluorobiphenyl	561	857	ug/kg	65.5	(36%-100%)
Nitrobenzene-d5	427	857	ug/kg	49.9	(34%-104%)
p-Terphenyl-d14	721	857	ug/kg	84.1	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234005

Client: SSFL001
Date Collected: 10/01/2009 14:45
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 4.5

Client ID: HZBS0080AS002
Batch ID: 908815
Run Date: 10/06/2009 13:18
Data File: s3j0613.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.03 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.4	ug/kg	3.49	17.4	20.0
83-32-9	Acenaphthene	U	17.4	ug/kg	5.83	17.4	20.0
129-00-0	Pyrene	U	17.4	ug/kg	5.48	17.4	20.0
91-20-3	Naphthalene	U	17.4	ug/kg	5.23	17.4	20.0
91-57-6	2-Methylnaphthalene	U	17.4	ug/kg	3.49	17.4	20.0
90-12-0	1-Methylnaphthalene	U	17.4	ug/kg	5.23	17.4	20.0
131-11-3	Dimethylphthalate	U	17.4	ug/kg	5.23	17.4	20.0
208-96-8	Acenaphthylene	U	17.4	ug/kg	5.23	17.4	20.0
84-66-2	Diethylphthalate	U	17.4	ug/kg	5.23	17.4	20.0
86-73-7	Fluorene	U	17.4	ug/kg	5.23	17.4	20.0
85-01-8	Phenanthrene	U	17.4	ug/kg	5.23	17.4	20.0
120-12-7	Anthracene	U	17.4	ug/kg	3.49	17.4	20.0
84-74-2	Di-n-butylphthalate	U	17.4	ug/kg	5.23	17.4	20.0
206-44-0	Fluoranthene	U	17.4	ug/kg	5.23	17.4	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.4	ug/kg	5.23	17.4	20.0
56-55-3	Benzo(a)anthracene	U	17.4	ug/kg	5.23	17.4	20.0
218-01-9	Chrysene	U	17.4	ug/kg	5.23	17.4	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	12.8	ug/kg	5.76	17.4	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.4	ug/kg	5.23	17.4	20.0
205-99-2	Benzo(b)fluoranthene	U	17.4	ug/kg	5.23	17.4	20.0
207-08-9	Benzo(k)fluoranthene	U	17.4	ug/kg	5.23	17.4	20.0
50-32-8	Benzo(a)pyrene	U	17.4	ug/kg	5.23	17.4	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.4	ug/kg	5.23	17.4	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.4	ug/kg	5.23	17.4	20.0
191-24-2	Benzo(ghi)perylene	U	17.4	ug/kg	5.23	17.4	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1130	1740	ug/kg	64.9	(37%-106%)
2-Fluorophenol	979	1740	ug/kg	56.1	(35%-96%)
Phenol-d5	984	1740	ug/kg	56.4	(36%-96%)
2-Fluorobiphenyl	523	872	ug/kg	60.0	(36%-100%)
Nitrobenzene-d5	409	872	ug/kg	46.9	(34%-104%)
p-Terphenyl-d14	655	872	ug/kg	75.1	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234006

Client: SSFL001
Date Collected: 10/01/2009 08:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 3.4

Client ID: HZBS0082AS001
Batch ID: 908815
Run Date: 10/06/2009 13:39
Data File: s3j0614.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.09 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.2	ug/kg	3.44	17.2	20.0
83-32-9	Acenaphthene	U	17.2	ug/kg	5.74	17.2	20.0
129-00-0	Pyrene	U	17.2	ug/kg	5.40	17.2	20.0
91-20-3	Naphthalene	U	17.2	ug/kg	5.16	17.2	20.0
91-57-6	2-Methylnaphthalene	U	17.2	ug/kg	3.44	17.2	20.0
90-12-0	1-Methylnaphthalene	U	17.2	ug/kg	5.16	17.2	20.0
131-11-3	Dimethylphthalate	U	17.2	ug/kg	5.16	17.2	20.0
208-96-8	Acenaphthylene	U	17.2	ug/kg	5.16	17.2	20.0
84-66-2	Diethylphthalate	U	17.2	ug/kg	5.16	17.2	20.0
86-73-7	Fluorene	U	17.2	ug/kg	5.16	17.2	20.0
85-01-8	Phenanthrene	U	17.2	ug/kg	5.16	17.2	20.0
120-12-7	Anthracene	U	17.2	ug/kg	3.44	17.2	20.0
84-74-2	Di-n-butylphthalate	U	17.2	ug/kg	5.16	17.2	20.0
206-44-0	Fluoranthene	U	17.2	ug/kg	5.16	17.2	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.2	ug/kg	5.16	17.2	20.0
56-55-3	Benzo(a)anthracene	U	17.2	ug/kg	5.16	17.2	20.0
218-01-9	Chrysene	U	17.2	ug/kg	5.16	17.2	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	16.2	ug/kg	5.67	17.2	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.2	ug/kg	5.16	17.2	20.0
205-99-2	Benzo(b)fluoranthene	U	17.2	ug/kg	5.16	17.2	20.0
207-08-9	Benzo(k)fluoranthene	U	17.2	ug/kg	5.16	17.2	20.0
50-32-8	Benzo(a)pyrene	U	17.2	ug/kg	5.16	17.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.2	ug/kg	5.16	17.2	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.2	ug/kg	5.16	17.2	20.0
191-24-2	Benzo(ghi)perylene	U	17.2	ug/kg	5.16	17.2	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1320	1720	ug/kg	76.6	(37%-106%)
2-Fluorophenol	1030	1720	ug/kg	60.0	(35%-96%)
Phenol-d5	1030	1720	ug/kg	59.7	(36%-96%)
2-Fluorobiphenyl	607	860	ug/kg	70.6	(36%-100%)
Nitrobenzene-d5	442	860	ug/kg	51.4	(34%-104%)
p-Terphenyl-d14	711	860	ug/kg	82.7	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234007

Client: SSFL001
Date Collected: 10/01/2009 09:05
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 4.7

Client ID: HZBS0082AS002
Batch ID: 908815
Run Date: 10/06/2009 14:00
Data File: s3j0615.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.16 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.4	ug/kg	3.48	17.4	20.0
83-32-9	Acenaphthene	U	17.4	ug/kg	5.81	17.4	20.0
129-00-0	Pyrene	U	17.4	ug/kg	5.46	17.4	20.0
91-20-3	Naphthalene	U	17.4	ug/kg	5.22	17.4	20.0
91-57-6	2-Methylnaphthalene	U	17.4	ug/kg	3.48	17.4	20.0
90-12-0	1-Methylnaphthalene	U	17.4	ug/kg	5.22	17.4	20.0
131-11-3	Dimethylphthalate	U	17.4	ug/kg	5.22	17.4	20.0
208-96-8	Acenaphthylene	U	17.4	ug/kg	5.22	17.4	20.0
84-66-2	Diethylphthalate	U	17.4	ug/kg	5.22	17.4	20.0
86-73-7	Fluorene	U	17.4	ug/kg	5.22	17.4	20.0
85-01-8	Phenanthrene	U	17.4	ug/kg	5.22	17.4	20.0
120-12-7	Anthracene	U	17.4	ug/kg	3.48	17.4	20.0
84-74-2	Di-n-butylphthalate	U	17.4	ug/kg	5.22	17.4	20.0
206-44-0	Fluoranthene	U	17.4	ug/kg	5.22	17.4	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.4	ug/kg	5.22	17.4	20.0
56-55-3	Benzo(a)anthracene	U	17.4	ug/kg	5.22	17.4	20.0
218-01-9	Chrysene	U	17.4	ug/kg	5.22	17.4	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	10.9	ug/kg	5.74	17.4	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.4	ug/kg	5.22	17.4	20.0
205-99-2	Benzo(b)fluoranthene	U	17.4	ug/kg	5.22	17.4	20.0
207-08-9	Benzo(k)fluoranthene	U	17.4	ug/kg	5.22	17.4	20.0
50-32-8	Benzo(a)pyrene	U	17.4	ug/kg	5.22	17.4	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.4	ug/kg	5.22	17.4	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.4	ug/kg	5.22	17.4	20.0
191-24-2	Benzo(ghi)perylene	U	17.4	ug/kg	5.22	17.4	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1020	1740	ug/kg	58.7	(37%-106%)
2-Fluorophenol	794	1740	ug/kg	45.6	(35%-96%)
Phenol-d5	840	1740	ug/kg	48.3	(36%-96%)
2-Fluorobiphenyl	450	870	ug/kg	51.8	(36%-100%)
Nitrobenzene-d5	351	870	ug/kg	40.3	(34%-104%)
p-Terphenyl-d14	645	870	ug/kg	74.2	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234008

Client: SSFL001
Date Collected: 10/01/2009 07:50
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1

Client ID: HZBS0084AS001
Batch ID: 908815
Run Date: 10/06/2009 14:30
Data File: s3j0616.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.19 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	16.7	ug/kg	3.34	16.7	20.0
83-32-9	Acenaphthene	U	16.7	ug/kg	5.58	16.7	20.0
129-00-0	Pyrene	U	16.7	ug/kg	5.25	16.7	20.0
91-20-3	Naphthalene	U	16.7	ug/kg	5.02	16.7	20.0
91-57-6	2-Methylnaphthalene	U	16.7	ug/kg	3.34	16.7	20.0
90-12-0	1-Methylnaphthalene	U	16.7	ug/kg	5.02	16.7	20.0
131-11-3	Dimethylphthalate	U	16.7	ug/kg	5.02	16.7	20.0
208-96-8	Acenaphthylene	U	16.7	ug/kg	5.02	16.7	20.0
84-66-2	Diethylphthalate	U	16.7	ug/kg	5.02	16.7	20.0
86-73-7	Fluorene	U	16.7	ug/kg	5.02	16.7	20.0
85-01-8	Phenanthrene	U	16.7	ug/kg	5.02	16.7	20.0
120-12-7	Anthracene	U	16.7	ug/kg	3.34	16.7	20.0
84-74-2	Di-n-butylphthalate	U	16.7	ug/kg	5.02	16.7	20.0
206-44-0	Fluoranthene	U	16.7	ug/kg	5.02	16.7	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	16.7	ug/kg	5.02	16.7	20.0
56-55-3	Benzo(a)anthracene	U	16.7	ug/kg	5.02	16.7	20.0
218-01-9	Chrysene	U	16.7	ug/kg	5.02	16.7	20.0
117-81-7	bis(2-Ethylhexyl)phthalate		23.4	ug/kg	5.52	16.7	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	16.7	ug/kg	5.02	16.7	20.0
205-99-2	Benzo(b)fluoranthene	U	16.7	ug/kg	5.02	16.7	20.0
207-08-9	Benzo(k)fluoranthene	U	16.7	ug/kg	5.02	16.7	20.0
50-32-8	Benzo(a)pyrene	U	16.7	ug/kg	5.02	16.7	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	16.7	ug/kg	5.02	16.7	20.0
53-70-3	Dibenzo(a,h)anthracene	U	16.7	ug/kg	5.02	16.7	20.0
191-24-2	Benzo(ghi)perylene	U	16.7	ug/kg	5.02	16.7	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1240	1670	ug/kg	74.1	(37%-106%)
2-Fluorophenol	878	1670	ug/kg	52.5	(35%-96%)
Phenol-d5	899	1670	ug/kg	53.7	(36%-96%)
2-Fluorobiphenyl	541	836	ug/kg	64.7	(36%-100%)
Nitrobenzene-d5	366	836	ug/kg	43.8	(34%-104%)
p-Terphenyl-d14	720	836	ug/kg	86.1	(40%-124%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234009

Client: SSFL001
Date Collected: 10/01/2009 08:15
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 4.8

Client ID: HZBS0084AS002
Batch ID: 908815
Run Date: 10/06/2009 14:51
Data File: s3j0617.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.02 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.5	ug/kg	3.50	17.5	20.0
83-32-9	Acenaphthene	U	17.5	ug/kg	5.84	17.5	20.0
129-00-0	Pyrene	U	17.5	ug/kg	5.49	17.5	20.0
91-20-3	Naphthalene	U	17.5	ug/kg	5.25	17.5	20.0
91-57-6	2-Methylnaphthalene	U	17.5	ug/kg	3.50	17.5	20.0
90-12-0	1-Methylnaphthalene	U	17.5	ug/kg	5.25	17.5	20.0
131-11-3	Dimethylphthalate	U	17.5	ug/kg	5.25	17.5	20.0
208-96-8	Acenaphthylene	U	17.5	ug/kg	5.25	17.5	20.0
84-66-2	Diethylphthalate	U	17.5	ug/kg	5.25	17.5	20.0
86-73-7	Fluorene	U	17.5	ug/kg	5.25	17.5	20.0
85-01-8	Phenanthrene	U	17.5	ug/kg	5.25	17.5	20.0
120-12-7	Anthracene	U	17.5	ug/kg	3.50	17.5	20.0
84-74-2	Di-n-butylphthalate	U	17.5	ug/kg	5.25	17.5	20.0
206-44-0	Fluoranthene	U	17.5	ug/kg	5.25	17.5	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.5	ug/kg	5.25	17.5	20.0
56-55-3	Benzo(a)anthracene	U	17.5	ug/kg	5.25	17.5	20.0
218-01-9	Chrysene	U	17.5	ug/kg	5.25	17.5	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	11.8	ug/kg	5.77	17.5	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.5	ug/kg	5.25	17.5	20.0
205-99-2	Benzo(b)fluoranthene	U	17.5	ug/kg	5.25	17.5	20.0
207-08-9	Benzo(k)fluoranthene	U	17.5	ug/kg	5.25	17.5	20.0
50-32-8	Benzo(a)pyrene	U	17.5	ug/kg	5.25	17.5	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.5	ug/kg	5.25	17.5	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.5	ug/kg	5.25	17.5	20.0
191-24-2	Benzo(ghi)perylene	U	17.5	ug/kg	5.25	17.5	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1230	1750	ug/kg	70.5	(37%-106%)
2-Fluorophenol	873	1750	ug/kg	49.9	(35%-96%)
Phenol-d5	891	1750	ug/kg	50.9	(36%-96%)
2-Fluorobiphenyl	466	874	ug/kg	53.3	(36%-100%)
Nitrobenzene-d5	362	874	ug/kg	41.5	(34%-104%)
p-Terphenyl-d14	691	874	ug/kg	79.0	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 238234
Lab Sample ID: 238234010

Client: SSFL001
Date Collected: 10/01/2009 13:15
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1.3

Client ID: HZBS0123AS001
Batch ID: 908815
Run Date: 10/06/2009 15:12
Data File: s3j0618.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.09 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	16.8	ug/kg	3.37	16.8	20.0
83-32-9	Acenaphthene	U	16.8	ug/kg	5.62	16.8	20.0
129-00-0	Pyrene	U	16.8	ug/kg	5.29	16.8	20.0
91-20-3	Naphthalene	U	16.8	ug/kg	5.05	16.8	20.0
91-57-6	2-Methylnaphthalene	U	16.8	ug/kg	3.37	16.8	20.0
90-12-0	1-Methylnaphthalene	U	16.8	ug/kg	5.05	16.8	20.0
131-11-3	Dimethylphthalate	U	16.8	ug/kg	5.05	16.8	20.0
208-96-8	Acenaphthylene	U	16.8	ug/kg	5.05	16.8	20.0
84-66-2	Diethylphthalate	U	16.8	ug/kg	5.05	16.8	20.0
86-73-7	Fluorene	U	16.8	ug/kg	5.05	16.8	20.0
85-01-8	Phenanthrene	U	16.8	ug/kg	5.05	16.8	20.0
120-12-7	Anthracene	U	16.8	ug/kg	3.37	16.8	20.0
84-74-2	Di-n-butylphthalate	U	16.8	ug/kg	5.05	16.8	20.0
206-44-0	Fluoranthene	U	16.8	ug/kg	5.05	16.8	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	J	6.39	ug/kg	5.05	16.8	20.0
56-55-3	Benzo(a)anthracene	U	16.8	ug/kg	5.05	16.8	20.0
218-01-9	Chrysene	U	16.8	ug/kg	5.05	16.8	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	16.6	ug/kg	5.55	16.8	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	16.8	ug/kg	5.05	16.8	20.0
205-99-2	Benzo(b)fluoranthene	U	16.8	ug/kg	5.05	16.8	20.0
207-08-9	Benzo(k)fluoranthene	U	16.8	ug/kg	5.05	16.8	20.0
50-32-8	Benzo(a)pyrene	U	16.8	ug/kg	5.05	16.8	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	16.8	ug/kg	5.05	16.8	20.0
53-70-3	Dibenzo(a,h)anthracene	U	16.8	ug/kg	5.05	16.8	20.0
191-24-2	Benzo(ghi)perylene	U	16.8	ug/kg	5.05	16.8	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1170	1680	ug/kg	69.4	(37%-106%)
2-Fluorophenol	952	1680	ug/kg	56.5	(35%-96%)
Phenol-d5	983	1680	ug/kg	58.4	(36%-96%)
2-Fluorobiphenyl	572	842	ug/kg	68.0	(36%-100%)
Nitrobenzene-d5	414	842	ug/kg	49.2	(34%-104%)
p-Terphenyl-d14	631	842	ug/kg	75.0	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234011

Client: SSFL001
Date Collected: 10/01/2009 13:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2.8

Client ID: HZBS0123AS002
Batch ID: 908815
Run Date: 10/06/2009 15:33
Data File: s3j0619.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.02 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.1	ug/kg	3.43	17.1	20.0
83-32-9	Acenaphthene	U	17.1	ug/kg	5.73	17.1	20.0
129-00-0	Pyrene	U	17.1	ug/kg	5.38	17.1	20.0
91-20-3	Naphthalene	U	17.1	ug/kg	5.14	17.1	20.0
91-57-6	2-Methylnaphthalene	U	17.1	ug/kg	3.43	17.1	20.0
90-12-0	1-Methylnaphthalene	U	17.1	ug/kg	5.14	17.1	20.0
131-11-3	Dimethylphthalate	U	17.1	ug/kg	5.14	17.1	20.0
208-96-8	Acenaphthylene	U	17.1	ug/kg	5.14	17.1	20.0
84-66-2	Diethylphthalate	U	17.1	ug/kg	5.14	17.1	20.0
86-73-7	Fluorene	U	17.1	ug/kg	5.14	17.1	20.0
85-01-8	Phenanthrene	U	17.1	ug/kg	5.14	17.1	20.0
120-12-7	Anthracene	U	17.1	ug/kg	3.43	17.1	20.0
84-74-2	Di-n-butylphthalate	U	17.1	ug/kg	5.14	17.1	20.0
206-44-0	Fluoranthene	U	17.1	ug/kg	5.14	17.1	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.1	ug/kg	5.14	17.1	20.0
56-55-3	Benzo(a)anthracene	U	17.1	ug/kg	5.14	17.1	20.0
218-01-9	Chrysene	U	17.1	ug/kg	5.14	17.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	12.6	ug/kg	5.66	17.1	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.1	ug/kg	5.14	17.1	20.0
205-99-2	Benzo(b)fluoranthene	U	17.1	ug/kg	5.14	17.1	20.0
207-08-9	Benzo(k)fluoranthene	U	17.1	ug/kg	5.14	17.1	20.0
50-32-8	Benzo(a)pyrene	U	17.1	ug/kg	5.14	17.1	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.1	ug/kg	5.14	17.1	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.1	ug/kg	5.14	17.1	20.0
191-24-2	Benzo(ghi)perylene	U	17.1	ug/kg	5.14	17.1	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1270	1710	ug/kg	74.3	(37%-106%)
2-Fluorophenol	1040	1710	ug/kg	60.9	(35%-96%)
Phenol-d5	1040	1710	ug/kg	60.9	(36%-96%)
2-Fluorobiphenyl	613	857	ug/kg	71.5	(36%-100%)
Nitrobenzene-d5	459	857	ug/kg	53.5	(34%-104%)
p-Terphenyl-d14	749	857	ug/kg	87.4	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234012

Client: SSFL001
Date Collected: 10/01/2009 11:00
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1.9

Client ID: HZBS0124AS001
Batch ID: 908815
Run Date: 10/06/2009 15:54
Data File: s3j0620.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.13 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	16.9	ug/kg	3.38	16.9	20.0
83-32-9	Acenaphthene	U	16.9	ug/kg	5.65	16.9	20.0
129-00-0	Pyrene	U	16.9	ug/kg	5.31	16.9	20.0
91-20-3	Naphthalene	U	16.9	ug/kg	5.07	16.9	20.0
91-57-6	2-Methylnaphthalene	U	16.9	ug/kg	3.38	16.9	20.0
90-12-0	1-Methylnaphthalene	U	16.9	ug/kg	5.07	16.9	20.0
131-11-3	Dimethylphthalate	U	16.9	ug/kg	5.07	16.9	20.0
208-96-8	Acenaphthylene	U	16.9	ug/kg	5.07	16.9	20.0
84-66-2	Diethylphthalate	U	16.9	ug/kg	5.07	16.9	20.0
86-73-7	Fluorene	U	16.9	ug/kg	5.07	16.9	20.0
85-01-8	Phenanthrene	U	16.9	ug/kg	5.07	16.9	20.0
120-12-7	Anthracene	U	16.9	ug/kg	3.38	16.9	20.0
84-74-2	Di-n-butylphthalate	U	16.9	ug/kg	5.07	16.9	20.0
206-44-0	Fluoranthene	U	16.9	ug/kg	5.07	16.9	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	16.9	ug/kg	5.07	16.9	20.0
56-55-3	Benzo(a)anthracene	U	16.9	ug/kg	5.07	16.9	20.0
218-01-9	Chrysene	U	16.9	ug/kg	5.07	16.9	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	9.77	ug/kg	5.58	16.9	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	16.9	ug/kg	5.07	16.9	20.0
205-99-2	Benzo(b)fluoranthene	U	16.9	ug/kg	5.07	16.9	20.0
207-08-9	Benzo(k)fluoranthene	U	16.9	ug/kg	5.07	16.9	20.0
50-32-8	Benzo(a)pyrene	U	16.9	ug/kg	5.07	16.9	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	16.9	ug/kg	5.07	16.9	20.0
53-70-3	Dibenzo(a,h)anthracene	U	16.9	ug/kg	5.07	16.9	20.0
191-24-2	Benzo(ghi)perylene	U	16.9	ug/kg	5.07	16.9	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1220	1690	ug/kg	72.4	(37%-106%)
2-Fluorophenol	948	1690	ug/kg	56.1	(35%-96%)
Phenol-d5	989	1690	ug/kg	58.5	(36%-96%)
2-Fluorobiphenyl	569	846	ug/kg	67.3	(36%-100%)
Nitrobenzene-d5	413	846	ug/kg	48.8	(34%-104%)
p-Terphenyl-d14	740	846	ug/kg	87.5	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234013

Client: SSFL001
Date Collected: 10/01/2009 12:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 3.8

Client ID: HZBS0124AS002
Batch ID: 908815
Run Date: 10/06/2009 16:15
Data File: s3j0621.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.01 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.3	ug/kg	3.47	17.3	20.0
83-32-9	Acenaphthene	U	17.3	ug/kg	5.79	17.3	20.0
129-00-0	Pyrene	U	17.3	ug/kg	5.44	17.3	20.0
91-20-3	Naphthalene	U	17.3	ug/kg	5.20	17.3	20.0
91-57-6	2-Methylnaphthalene	U	17.3	ug/kg	3.47	17.3	20.0
90-12-0	1-Methylnaphthalene	U	17.3	ug/kg	5.20	17.3	20.0
131-11-3	Dimethylphthalate	U	17.3	ug/kg	5.20	17.3	20.0
208-96-8	Acenaphthylene	U	17.3	ug/kg	5.20	17.3	20.0
84-66-2	Diethylphthalate	U	17.3	ug/kg	5.20	17.3	20.0
86-73-7	Fluorene	U	17.3	ug/kg	5.20	17.3	20.0
85-01-8	Phenanthrene	U	17.3	ug/kg	5.20	17.3	20.0
120-12-7	Anthracene	U	17.3	ug/kg	3.47	17.3	20.0
84-74-2	Di-n-butylphthalate	U	17.3	ug/kg	5.20	17.3	20.0
206-44-0	Fluoranthene	U	17.3	ug/kg	5.20	17.3	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.3	ug/kg	5.20	17.3	20.0
56-55-3	Benzo(a)anthracene	U	17.3	ug/kg	5.20	17.3	20.0
218-01-9	Chrysene	U	17.3	ug/kg	5.20	17.3	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	11.9	ug/kg	5.72	17.3	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.3	ug/kg	5.20	17.3	20.0
205-99-2	Benzo(b)fluoranthene	U	17.3	ug/kg	5.20	17.3	20.0
207-08-9	Benzo(k)fluoranthene	U	17.3	ug/kg	5.20	17.3	20.0
50-32-8	Benzo(a)pyrene	U	17.3	ug/kg	5.20	17.3	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.3	ug/kg	5.20	17.3	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.3	ug/kg	5.20	17.3	20.0
191-24-2	Benzo(ghi)perylene	U	17.3	ug/kg	5.20	17.3	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1100	1730	ug/kg	63.2	(37%-106%)
2-Fluorophenol	844	1730	ug/kg	48.7	(35%-96%)
Phenol-d5	912	1730	ug/kg	52.7	(36%-96%)
2-Fluorobiphenyl	492	866	ug/kg	56.8	(36%-100%)
Nitrobenzene-d5	379	866	ug/kg	43.8	(34%-104%)
p-Terphenyl-d14	710	866	ug/kg	82.0	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234014

Client: SSFL001
Date Collected: 10/01/2009 13:50
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1.4

Client ID: HZBS0175S001
Batch ID: 908815
Run Date: 10/06/2009 16:37
Data File: s3j0622.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.09 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	16.9	ug/kg	3.37	16.9	20.0
83-32-9	Acenaphthene	U	16.9	ug/kg	5.63	16.9	20.0
129-00-0	Pyrene	U	16.9	ug/kg	5.29	16.9	20.0
91-20-3	Naphthalene	U	16.9	ug/kg	5.06	16.9	20.0
91-57-6	2-Methylnaphthalene	U	16.9	ug/kg	3.37	16.9	20.0
90-12-0	1-Methylnaphthalene	U	16.9	ug/kg	5.06	16.9	20.0
131-11-3	Dimethylphthalate	U	16.9	ug/kg	5.06	16.9	20.0
208-96-8	Acenaphthylene	U	16.9	ug/kg	5.06	16.9	20.0
84-66-2	Diethylphthalate	U	16.9	ug/kg	5.06	16.9	20.0
86-73-7	Fluorene	U	16.9	ug/kg	5.06	16.9	20.0
85-01-8	Phenanthrene	U	16.9	ug/kg	5.06	16.9	20.0
120-12-7	Anthracene	U	16.9	ug/kg	3.37	16.9	20.0
84-74-2	Di-n-butylphthalate	U	16.9	ug/kg	5.06	16.9	20.0
206-44-0	Fluoranthene	U	16.9	ug/kg	5.06	16.9	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	16.9	ug/kg	5.06	16.9	20.0
56-55-3	Benzo(a)anthracene	U	16.9	ug/kg	5.06	16.9	20.0
218-01-9	Chrysene	U	16.9	ug/kg	5.06	16.9	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	12.9	ug/kg	5.56	16.9	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	16.9	ug/kg	5.06	16.9	20.0
205-99-2	Benzo(b)fluoranthene	U	16.9	ug/kg	5.06	16.9	20.0
207-08-9	Benzo(k)fluoranthene	U	16.9	ug/kg	5.06	16.9	20.0
50-32-8	Benzo(a)pyrene	U	16.9	ug/kg	5.06	16.9	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	16.9	ug/kg	5.06	16.9	20.0
53-70-3	Dibenzo(a,h)anthracene	U	16.9	ug/kg	5.06	16.9	20.0
191-24-2	Benzo(ghi)perylene	U	16.9	ug/kg	5.06	16.9	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1140	1690	ug/kg	67.7	(37%-106%)
2-Fluorophenol	810	1690	ug/kg	48.1	(35%-96%)
Phenol-d5	853	1690	ug/kg	50.6	(36%-96%)
2-Fluorobiphenyl	519	843	ug/kg	61.5	(36%-100%)
Nitrobenzene-d5	374	843	ug/kg	44.3	(34%-104%)
p-Terphenyl-d14	679	843	ug/kg	80.5	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234015

Client: SSFL001
Date Collected: 10/01/2009 14:10
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2.4

Client ID: HZBS0175S002
Batch ID: 908815
Run Date: 10/06/2009 16:58
Data File: s3j0623.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.06 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.0	ug/kg	3.41	17.0	20.0
83-32-9	Acenaphthene	U	17.0	ug/kg	5.69	17.0	20.0
129-00-0	Pyrene	U	17.0	ug/kg	5.35	17.0	20.0
91-20-3	Naphthalene	U	17.0	ug/kg	5.11	17.0	20.0
91-57-6	2-Methylnaphthalene	U	17.0	ug/kg	3.41	17.0	20.0
90-12-0	1-Methylnaphthalene	U	17.0	ug/kg	5.11	17.0	20.0
131-11-3	Dimethylphthalate	U	17.0	ug/kg	5.11	17.0	20.0
208-96-8	Acenaphthylene	U	17.0	ug/kg	5.11	17.0	20.0
84-66-2	Diethylphthalate	U	17.0	ug/kg	5.11	17.0	20.0
86-73-7	Fluorene	U	17.0	ug/kg	5.11	17.0	20.0
85-01-8	Phenanthrene	U	17.0	ug/kg	5.11	17.0	20.0
120-12-7	Anthracene	U	17.0	ug/kg	3.41	17.0	20.0
84-74-2	Di-n-butylphthalate	U	17.0	ug/kg	5.11	17.0	20.0
206-44-0	Fluoranthene	U	17.0	ug/kg	5.11	17.0	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.0	ug/kg	5.11	17.0	20.0
56-55-3	Benzo(a)anthracene	U	17.0	ug/kg	5.11	17.0	20.0
218-01-9	Chrysene	U	17.0	ug/kg	5.11	17.0	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	6.18	ug/kg	5.63	17.0	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.0	ug/kg	5.11	17.0	20.0
205-99-2	Benzo(b)fluoranthene	U	17.0	ug/kg	5.11	17.0	20.0
207-08-9	Benzo(k)fluoranthene	U	17.0	ug/kg	5.11	17.0	20.0
50-32-8	Benzo(a)pyrene	U	17.0	ug/kg	5.11	17.0	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.0	ug/kg	5.11	17.0	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.0	ug/kg	5.11	17.0	20.0
191-24-2	Benzo(ghi)perylene	U	17.0	ug/kg	5.11	17.0	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1140	1700	ug/kg	67.1	(37%-106%)
2-Fluorophenol	858	1700	ug/kg	50.3	(35%-96%)
Phenol-d5	888	1700	ug/kg	52.1	(36%-96%)
2-Fluorobiphenyl	518	852	ug/kg	60.8	(36%-100%)
Nitrobenzene-d5	382	852	ug/kg	44.8	(34%-104%)
p-Terphenyl-d14	702	852	ug/kg	82.4	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234016

Client: SSFL001
Date Collected: 10/01/2009 15:00
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1.1

Client ID: HZBS0177S001
Batch ID: 908815
Run Date: 10/06/2009 17:19
Data File: s3j0624.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.02 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	16.8	ug/kg	3.37	16.8	20.0
83-32-9	Acenaphthene	U	16.8	ug/kg	5.62	16.8	20.0
129-00-0	Pyrene	U	16.8	ug/kg	5.29	16.8	20.0
91-20-3	Naphthalene	U	16.8	ug/kg	5.05	16.8	20.0
91-57-6	2-Methylnaphthalene	U	16.8	ug/kg	3.37	16.8	20.0
90-12-0	1-Methylnaphthalene	U	16.8	ug/kg	5.05	16.8	20.0
131-11-3	Dimethylphthalate	U	16.8	ug/kg	5.05	16.8	20.0
208-96-8	Acenaphthylene	U	16.8	ug/kg	5.05	16.8	20.0
84-66-2	Diethylphthalate	U	16.8	ug/kg	5.05	16.8	20.0
86-73-7	Fluorene	U	16.8	ug/kg	5.05	16.8	20.0
85-01-8	Phenanthrene	U	16.8	ug/kg	5.05	16.8	20.0
120-12-7	Anthracene	U	16.8	ug/kg	3.37	16.8	20.0
84-74-2	Di-n-butylphthalate	U	16.8	ug/kg	5.05	16.8	20.0
206-44-0	Fluoranthene	U	16.8	ug/kg	5.05	16.8	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	16.8	ug/kg	5.05	16.8	20.0
56-55-3	Benzo(a)anthracene	U	16.8	ug/kg	5.05	16.8	20.0
218-01-9	Chrysene	U	16.8	ug/kg	5.05	16.8	20.0
117-81-7	bis(2-Ethylhexyl)phthalate		19.4	ug/kg	5.56	16.8	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	16.8	ug/kg	5.05	16.8	20.0
205-99-2	Benzo(b)fluoranthene	U	16.8	ug/kg	5.05	16.8	20.0
207-08-9	Benzo(k)fluoranthene	U	16.8	ug/kg	5.05	16.8	20.0
50-32-8	Benzo(a)pyrene	U	16.8	ug/kg	5.05	16.8	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	16.8	ug/kg	5.05	16.8	20.0
53-70-3	Dibenzo(a,h)anthracene	U	16.8	ug/kg	5.05	16.8	20.0
191-24-2	Benzo(ghi)perylene	U	16.8	ug/kg	5.05	16.8	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1220	1680	ug/kg	72.6	(37%-106%)
2-Fluorophenol	986	1680	ug/kg	58.5	(35%-96%)
Phenol-d5	1010	1680	ug/kg	60.0	(36%-96%)
2-Fluorobiphenyl	597	842	ug/kg	70.9	(36%-100%)
Nitrobenzene-d5	455	842	ug/kg	54.0	(34%-104%)
p-Terphenyl-d14	694	842	ug/kg	82.5	(40%-124%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234017

Client: SSFL001
Date Collected: 10/01/2009 15:15
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 10.8

Client ID: HZBS0177S002
Batch ID: 908815
Run Date: 10/06/2009 17:40
Data File: s3j0625.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.03 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	18.7	ug/kg	3.73	18.7	20.0
83-32-9	Acenaphthene	U	18.7	ug/kg	6.23	18.7	20.0
129-00-0	Pyrene	U	18.7	ug/kg	5.86	18.7	20.0
91-20-3	Naphthalene	U	18.7	ug/kg	5.60	18.7	20.0
91-57-6	2-Methylnaphthalene	U	18.7	ug/kg	3.73	18.7	20.0
90-12-0	1-Methylnaphthalene	U	18.7	ug/kg	5.60	18.7	20.0
131-11-3	Dimethylphthalate	U	18.7	ug/kg	5.60	18.7	20.0
208-96-8	Acenaphthylene	U	18.7	ug/kg	5.60	18.7	20.0
84-66-2	Diethylphthalate	U	18.7	ug/kg	5.60	18.7	20.0
86-73-7	Fluorene	U	18.7	ug/kg	5.60	18.7	20.0
85-01-8	Phenanthrene	U	18.7	ug/kg	5.60	18.7	20.0
120-12-7	Anthracene	U	18.7	ug/kg	3.73	18.7	20.0
84-74-2	Di-n-butylphthalate	U	18.7	ug/kg	5.60	18.7	20.0
206-44-0	Fluoranthene	U	18.7	ug/kg	5.60	18.7	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	18.7	ug/kg	5.60	18.7	20.0
56-55-3	Benzo(a)anthracene	U	18.7	ug/kg	5.60	18.7	20.0
218-01-9	Chrysene	U	18.7	ug/kg	5.60	18.7	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	11.1	ug/kg	6.16	18.7	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	18.7	ug/kg	5.60	18.7	20.0
205-99-2	Benzo(b)fluoranthene	U	18.7	ug/kg	5.60	18.7	20.0
207-08-9	Benzo(k)fluoranthene	U	18.7	ug/kg	5.60	18.7	20.0
50-32-8	Benzo(a)pyrene	U	18.7	ug/kg	5.60	18.7	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	18.7	ug/kg	5.60	18.7	20.0
53-70-3	Dibenzo(a,h)anthracene	U	18.7	ug/kg	5.60	18.7	20.0
191-24-2	Benzo(ghi)perylene	U	18.7	ug/kg	5.60	18.7	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1180	1870	ug/kg	63.4	(37%-106%)
2-Fluorophenol	966	1870	ug/kg	51.8	(35%-96%)
Phenol-d5	1080	1870	ug/kg	58.0	(36%-96%)
2-Fluorobiphenyl	479	933	ug/kg	51.3	(36%-100%)
Nitrobenzene-d5	419	933	ug/kg	44.9	(34%-104%)
p-Terphenyl-d14	823	933	ug/kg	88.2	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234018

Client: SSFL001
Date Collected: 10/01/2009 09:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2.2

Client ID: HZBS0180S001
Batch ID: 908815
Run Date: 10/06/2009 18:01
Data File: s3j0626.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.17 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.0	ug/kg	3.39	17.0	20.0
83-32-9	Acenaphthene	U	17.0	ug/kg	5.66	17.0	20.0
129-00-0	Pyrene	U	17.0	ug/kg	5.32	17.0	20.0
91-20-3	Naphthalene	U	17.0	ug/kg	5.09	17.0	20.0
91-57-6	2-Methylnaphthalene	U	17.0	ug/kg	3.39	17.0	20.0
90-12-0	1-Methylnaphthalene	U	17.0	ug/kg	5.09	17.0	20.0
131-11-3	Dimethylphthalate	U	17.0	ug/kg	5.09	17.0	20.0
208-96-8	Acenaphthylene	U	17.0	ug/kg	5.09	17.0	20.0
84-66-2	Diethylphthalate	U	17.0	ug/kg	5.09	17.0	20.0
86-73-7	Fluorene	U	17.0	ug/kg	5.09	17.0	20.0
85-01-8	Phenanthrene	U	17.0	ug/kg	5.09	17.0	20.0
120-12-7	Anthracene	U	17.0	ug/kg	3.39	17.0	20.0
84-74-2	Di-n-butylphthalate	J	6.39	ug/kg	5.09	17.0	20.0
206-44-0	Fluoranthene	U	17.0	ug/kg	5.09	17.0	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.0	ug/kg	5.09	17.0	20.0
56-55-3	Benzo(a)anthracene	U	17.0	ug/kg	5.09	17.0	20.0
218-01-9	Chrysene	U	17.0	ug/kg	5.09	17.0	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	12.8	ug/kg	5.59	17.0	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.0	ug/kg	5.09	17.0	20.0
205-99-2	Benzo(b)fluoranthene	U	17.0	ug/kg	5.09	17.0	20.0
207-08-9	Benzo(k)fluoranthene	U	17.0	ug/kg	5.09	17.0	20.0
50-32-8	Benzo(a)pyrene	U	17.0	ug/kg	5.09	17.0	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.0	ug/kg	5.09	17.0	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.0	ug/kg	5.09	17.0	20.0
191-24-2	Benzo(ghi)perylene	U	17.0	ug/kg	5.09	17.0	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1300	1700	ug/kg	76.6	(37%-106%)
2-Fluorophenol	1060	1700	ug/kg	62.6	(35%-96%)
Phenol-d5	1130	1700	ug/kg	66.4	(36%-96%)
2-Fluorobiphenyl	636	848	ug/kg	75.1	(36%-100%)
Nitrobenzene-d5	476	848	ug/kg	56.1	(34%-104%)
p-Terphenyl-d14	797	848	ug/kg	94.1	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234019

Client: SSFL001
Date Collected: 10/01/2009 10:00
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 4.1

Client ID: HZBS0180S002
Batch ID: 908815
Run Date: 10/06/2009 18:22
Data File: s3j0627.d
Prep Batch: 908814
Prep Date: 10/05/2009 10:55

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.15 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	17.3	ug/kg	3.46	17.3	20.0
83-32-9	Acenaphthene	U	17.3	ug/kg	5.77	17.3	20.0
129-00-0	Pyrene	U	17.3	ug/kg	5.43	17.3	20.0
91-20-3	Naphthalene	U	17.3	ug/kg	5.19	17.3	20.0
91-57-6	2-Methylnaphthalene	U	17.3	ug/kg	3.46	17.3	20.0
90-12-0	1-Methylnaphthalene	U	17.3	ug/kg	5.19	17.3	20.0
131-11-3	Dimethylphthalate	U	17.3	ug/kg	5.19	17.3	20.0
208-96-8	Acenaphthylene	U	17.3	ug/kg	5.19	17.3	20.0
84-66-2	Diethylphthalate	U	17.3	ug/kg	5.19	17.3	20.0
86-73-7	Fluorene	U	17.3	ug/kg	5.19	17.3	20.0
85-01-8	Phenanthrene	U	17.3	ug/kg	5.19	17.3	20.0
120-12-7	Anthracene	U	17.3	ug/kg	3.46	17.3	20.0
84-74-2	Di-n-butylphthalate	U	17.3	ug/kg	5.19	17.3	20.0
206-44-0	Fluoranthene	U	17.3	ug/kg	5.19	17.3	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.3	ug/kg	5.19	17.3	20.0
56-55-3	Benzo(a)anthracene	U	17.3	ug/kg	5.19	17.3	20.0
218-01-9	Chrysene	U	17.3	ug/kg	5.19	17.3	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	J	7.67	ug/kg	5.70	17.3	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.3	ug/kg	5.19	17.3	20.0
205-99-2	Benzo(b)fluoranthene	U	17.3	ug/kg	5.19	17.3	20.0
207-08-9	Benzo(k)fluoranthene	U	17.3	ug/kg	5.19	17.3	20.0
50-32-8	Benzo(a)pyrene	U	17.3	ug/kg	5.19	17.3	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.3	ug/kg	5.19	17.3	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.3	ug/kg	5.19	17.3	20.0
191-24-2	Benzo(ghi)perylene	U	17.3	ug/kg	5.19	17.3	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1160	1730	ug/kg	67.4	(37%-106%)
2-Fluorophenol	873	1730	ug/kg	50.5	(35%-96%)
Phenol-d5	964	1730	ug/kg	55.8	(36%-96%)
2-Fluorobiphenyl	503	864	ug/kg	58.2	(36%-100%)
Nitrobenzene-d5	389	864	ug/kg	45.0	(34%-104%)
p-Terphenyl-d14	808	864	ug/kg	93.4	(40%-124%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

LC/MS/MS
PERCHLORATE
ANALYSIS

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 913325
Extraction Type: Solid Prep
Client Sample No.
HZBS0080AS001
Date Received: 02-OCT-09
GEL Job No (SDG): 238234
GEL Sample ID: 238234004
Date Filtered: 16-OCT-09
Injection Volume (uL): 20
Sample Volume/Weight: 10.0 g
%Solids: 97.3
Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0514	1	0.288	ug/L	J	1	17-OCT-09 13:51	per1017031a
	Perchlorate-O(18)			0.523	ug/L		1	17-OCT-09 13:51	per1017031a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =
 Instrument Value X Concentrated Extract Volume X 1
 Aliquot %Solids

Perchlorate Analysis Data Sheet

Client Sample No.
HZBS0080AS002

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 913325

Extraction Type: Solid Prep

Date Received: 02-OCT-09

GEL Job No (SDG): 238234

GEL Sample ID: 238234005

Date Filtered: 16-OCT-09

Injection Volume (uL): 20

%Solids: 95.5

Sample Volume/Weight: 10.0 g

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0524	1	0.0524	ug/L	U	1	17-OCT-09 14:24	per1017036a
	Perchlorate-O(18)			0.536	ug/L		1	17-OCT-09 14:24	per1017036a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =
 Instrument Value X Concentrated Extract Volume X $\frac{1}{\%Solids}$
 Aliquot

Perchlorate Analysis Data Sheet

Client Sample No.
 HZBS0082AS001

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Date Received: 02-OCT-09

Instrument: LCMSMS

GEL Job No (SDG): 238234

Method: SW846 6850 Modified

GEL Sample ID: 238234006

Matrix: SOIL

Date Filtered: 16-OCT-09

Extraction Batch ID: 213325

Injection Volume (uL): 20

Extraction Type: Solid Prep

%Solids: 96.6

Sample Volume/Weight: 10.0 g

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0517	1	0.236	ug/L	J	1	17-OCT-09 14:44	per1017039a
	Perchlorate-O(18)			0.517	ug/L		1	17-OCT-09 14:44	per1017039a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration = Instrument Value X Concentrated Extract Volume X %Solids Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 213325

Extraction Type: Solid Prep

Sample Volume/Weight: 10.0 g

Concentrated Extract Volume: 10.0

Client Sample No.

HZBS0082AS002

Date Received: 02-OCT-09

GEL Job No (SDG): 238234

GEL Sample ID: 238234007

Date Filtered: 16-OCT-09

Injection Volume (uL): 20

%Solids: 95.3

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0525	1	0.0525	ug/L	U	1	17-OCT-09 14:51	per1017040a
	Perchlorate-O(18)			0.490	ug/L		1	17-OCT-09 14:51	per1017040a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample No.

HZBS0084AS001

Lab Code: GEL

Instrument: LCMSMS

Date Received: 02-OCT-09

Method: SW846 6850 Modified

GEL Job No (SDG): 238234

Matrix: SOIL

GEL Sample ID: 238234008

Extraction Batch ID: 213325

Date Filtered: 16-OCT-09

Extraction Type: Solid Prep

Injection Volume (uL): 20

Sample Volume/Weight: 10.0 g

%Solids: 99.05

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0505	1	0.0702	ug/L	J	1	17-OCT-09 14:57	per1017041a
	Perchlorate-O(18)			0.572	ug/L		1	17-OCT-09 14:57	per1017041a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample No.
HZBS0084AS002

Lab Code: GEL

Instrument: LCMSMS

Date Received: 02-OCT-09

Method: SW846 6850 Modified

GEL Job No (SDG): 238234

Matrix: SOIL

GEL Sample ID: 238234009

Extraction Batch ID: 213325

Date Filtered: 16-OCT-09

Extraction Type: Solid Prep

Injection Volume (uL): 20

Sample Volume/Weight: 10.0 g

%Solids: 95.2

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0525	1	0.0546	ug/L	J	1	17-OCT-09 15:04	per1017042a
	Perchlorate-O(18)			0.519	ug/L		1	17-OCT-09 15:04	per1017042a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =
Instrument Value X 1 Concentrated Extract Volume X 1 %Solids
Aliquot

Perchlorate Analysis Data Sheet

Client Sample No.
HZBS0123AS001

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 213325

Extraction Type: Solid Prep

Date Received: 02-OCT-09

GEL Job No (SDG): 238234

GEL Sample ID: 238234010

Date Filtered: 16-OCT-09

Injection Volume (uL): 20

%Solids: 98.7

Sample Volume/Weight: 10.0 g

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0506	1	0.165	ug/L	J	1	17-OCT-09 15:10	per1017043a
	Perchlorate-O(18)			0.579	ug/L		1	17-OCT-09 15:10	per1017043a

*Concentration = Instrument Value X Concentrated Extract Volume X $\frac{1}{\%Solids}$ Aliquot

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 213325
Extraction Type: Solid Prep
Sample Volume/Weight: 10.0 g
Concentrated Extract Volume: 10.0
Client Sample No.
HZBS0123AS002
Date Received: 02-OCT-09
GEL Job No (SDG): 238234
GEL Sample ID: 238234011
Date Filtered: 16-OCT-09
Injection Volume (uL): 20
%Solids: 97.2

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0515	1	0.111	ug/L	J	1	17-OCT-09 15:17	per1017044a
	Perchlorate-O(18)			0.522	ug/L		1	17-OCT-09 15:17	per1017044a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration = Instrument Value X Concentrated Extract Volume X $\frac{1}{\%Solids}$ Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 913325

Extraction Type: Solid Prep

Client Sample No.
HZBS0124AS001

Date Received: 02-OCT-09

GEL Job No (SDG): 238234

GEL Sample ID: 238234012

Date Filtered: 16-OCT-09

Injection Volume (uL): 20

% Solids: 98.1

Sample Volume/Weight: 10.0 g

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.051	1	0.0832	ug/L	J	1	17-OCT-09 15:50	per1017049a
	Perchlorate-O(18)			0.534	ug/L		1	17-OCT-09 15:50	per1017049a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 % Solids
Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 213325

Extraction Type: Solid Prep

Client Sample No.

HZBS0124AS002

Date Received: 02-OCT-09

GEL Job No (SDG): 238234

GEL Sample ID: 238234013

Date Filtered: 16-OCT-09

Injection Volume (uL): 20

%Solids: 96.2

Sample Volume/Weight: 10.0 g

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.052	1	0.073	ug/L	J	1	17-OCT-09 15:56	per1017050a
	Perchlorate-O(18)			0.536	ug/L		1	17-OCT-09 15:56	per1017050a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

Perchlorate Analysis Data Sheet

Client Sample No.
HZBS0175S001

Date Received: 02-OCT-09

GEL Job No (SDG): 238234

GEL Sample ID: 238234014

Date Filtered: 16-OCT-09

Injection Volume (uL): 20

%Solids: 98.6

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 213325

Extraction Type: Solid Prep

Sample Volume/Weight: 10.0 g

Concentrated Extract Volume: 10.0

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0507	1	0.0507	ug/L	U	1	17-OCT-09 16:03	per1017051a
	Perchlorate-O(18)			0.534	ug/L		1	17-OCT-09 16:03	per1017051a

^ When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration = Instrument Value X Concentrated Extract Volume X $\frac{1}{\%Solids}$ Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 913325
Extraction Type: Solid Prep
Sample Volume/Weight: 10.0 g
Concentrated Extract Volume: 10.0

Client Sample No.
HZBS0175S002
Date Received: 02-OCT-09
GEL Job No (SDG): 238234
GEL Sample ID: 238234015
Date Filtered: 16-OCT-09
Injection Volume (uL): 20
%Solids: 97.6

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0512	1	0.167	ug/L	J	1	17-OCT-09 16:09	per1017052a
	Perchlorate-O(18)			0.494	ug/L		1	17-OCT-09 16:09	per1017052a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration = Instrument Value X Concentrated Extract Volume X Aliquot %Solids
 X X X

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 913325
Extraction Type: Solid Prep
Sample Volume/Weight: 10.0 g
Concentrated Extract Volume: 10.0

Client Sample No.
HZBS0177S001
Date Received: 02-OCT-09
GEL Job No (SDG): 238234
GEL Sample ID: 238234016
Date Filtered: 16-OCT-09
Injection Volume (uL): 20
%Solids: 98.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0506	1	0.0652	ug/L	J	1	17-OCT-09 16:16	per1017053a
	Perchlorate-O(18)			0.562	ug/L		1	17-OCT-09 16:16	per1017053a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration = Instrument Value X Concentrated Extract Volume X 1 %Solids Aliquot

When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

Perchlorate Analysis Data Sheet

Client Sample No.
HZBS0177S002

Date Received: 02-OCT-09

GEL Job No (SDG): 238234

GEL Sample ID: 238234017

Date Filtered: 16-OCT-09

Injection Volume (uL): 20

%Solids: 89

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 913325

Extraction Type: Solid Prep

Sample Volume/Weight: 10.0 g

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.056	1	0.056	ug/L	U	1	17-OCT-09 16:22	per1017054a
	Perchlorate-O(18)			0.540	ug/L		1	17-OCT-09 16:22	per1017054a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration = Instrument Value X Concentrated Extract Volume X $\frac{1}{\%Solids}$ Aliquot

Perchlorate Analysis Data Sheet

Client Sample No.
HZBS0180S001

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 913325

Extraction Type: Solid Prep

Date Received: 02-OCT-09

GEL Job No (SDG): 238234

GEL Sample ID: 238234018

Date Filtered: 16-OCT-09

Injection Volume (uL): 20

%Solids: 97.8

Sample Volume/Weight: 10.0 g

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0511	I	0.236	ug/L	J	I	17-OCT-09 16:29	per1017055a
	Perchlorate-O(18)			0.527	ug/L		I	17-OCT-09 16:29	per1017055a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration = Instrument Value X Concentrated Extract Volume X 1 %Solids Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 913325
Extraction Type: Solid Prep
Sample Volume/Weight: 10.0 g
Concentrated Extract Volume: 10.0

Client Sample No.
HZBS0180S002
Date Received: 02-OCT-09
GEL Job No (SDG): 238234
GEL Sample ID: 238234019
Date Filtered: 16-OCT-09
Injection Volume (uL): 20
%Solids: 95.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.0521	1	0.125	ug/L	J	1	17-OCT-09 16:36	per1017056a
	Perchlorate-O(18)			0.508	ug/L		1	17-OCT-09 16:36	per1017056a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration = $\frac{\text{Concentrated Extract Volume}}{\text{Instrument Value}} \times \text{Aliquot}$
 Instrument Value X Concentrated Extract Volume X $\frac{1}{\% \text{Solids}}$

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**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234001

Client: SSFL001
Date Collected: 10/01/2009 15:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Water

Client ID: EBQW2249
Batch ID: 909563
Run Date: 10/07/2009 19:43
Data File: 009f0901.d
Prep Batch: 909562
Prep Date: 10/06/2009 21:13

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3510C
Aliquot: 1050 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-013
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	95.2	ug/L	31.4	95.2	100
EFH (>C14 - C2)	EFH (>C14 - C20)	U	95.2	ug/L	31.4	95.2	100
EFH (>C20 - C3)	EFH (>C20 - C30)	U	95.2	ug/L	31.4	95.2	100
EFH (C8 - C11)	EFH (C8 - C11)	U	95.2	ug/L	31.4	95.2	100

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	33.1	47.6	ug/L	69.5	(35%-103%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Flame Ionization Detector
Certificate of Analysis
Sample Summary

SDG Number: 238234
Lab Sample ID: 238234002

Client: SSFL001
Date Collected: 10/01/2009 10:18
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2

Client ID: HVBF33AS01
Batch ID: 908752
Run Date: 10/04/2009 02:59
Data File: 022f2201.d
Prep Batch: 908751
Prep Date: 10/02/2009 22:48

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.40	mg/kg	1.12	3.40	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.40	mg/kg	1.12	3.40	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	J	2.11	mg/kg	1.12	3.40	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.40	mg/kg	1.12	3.40	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.19	1.70	mg/kg	69.8	(34%-108%)

Comments:

- J Value is estimated
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234
 Lab Sample ID: 238234003
 Client ID: HVBF33AS02
 Batch ID: 908752
 Run Date: 10/04/2009 06:02
 Data File: 027f2701.d
 Prep Batch: 908751
 Prep Date: 10/02/2009 22:48

Client: SSFL001
 Date Collected: 10/01/2009 10:40
 Date Received: 10/02/2009 09:15
 Method: SW846 8015B EFH
 Analyst: KXR2
 Inj. Vol: 1 uL
 Prep Method: SW846 3550B
 Aliquot: 30.07 g

Project: SSFL00160
 Matrix: Soil
 %Moisture: 4.7
 Prep Basis: Dry Weight
 SOP Ref: GL-OA-E-003
 Instrument: FID7.I
 Dilution: 1
 Prep SOP Ref: GL-OA-E-010
 Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.49	mg/kg	1.15	3.49	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.49	mg/kg	1.15	3.49	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	U	3.49	mg/kg	1.15	3.49	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.49	mg/kg	1.15	3.49	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.19	1.74	mg/kg	68.1	(34%-108%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234
 Lab Sample ID: 238234004
 Client ID: HZBS0080AS001
 Batch ID: 908752
 Run Date: 10/04/2009 06:39
 Data File: 028f2801.d
 Prep Batch: 908751
 Prep Date: 10/02/2009 22:48

Client: SSFL001
 Date Collected: 10/01/2009 14:35
 Date Received: 10/02/2009 09:15
 Method: SW846 8015B EFH
 Analyst: KXR2
 Inj. Vol: 1 uL
 Prep Method: SW846 3550B
 Aliquot: 30 g

Project: SSFL00160
 Matrix: Soil
 %Moisture: 2.7
 Prep Basis: Dry Weight
 SOP Ref: GL-OA-E-003
 Instrument: FID7.I
 Dilution: 1
 Prep SOP Ref: GL-OA-E-010
 Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.43	mg/kg	1.13	3.43	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.43	mg/kg	1.13	3.43	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	J	3.34	mg/kg	1.13	3.43	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.43	mg/kg	1.13	3.43	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.14	1.71	mg/kg	66.7	(34%-108%)

Comments:

- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234005

Client: SSFL001
Date Collected: 10/01/2009 14:45
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 4.5

Client ID: HZBS0080AS002
Batch ID: 908752
Run Date: 10/04/2009 07:15
Data File: 029f2901.d
Prep Batch: 908751
Prep Date: 10/02/2009 22:48

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.49	mg/kg	1.15	3.49	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.49	mg/kg	1.15	3.49	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	U	3.49	mg/kg	1.15	3.49	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.49	mg/kg	1.15	3.49	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.33	1.75	mg/kg	76.2	(34%-108%)

Comments:

- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234
 Lab Sample ID: 238234006

 Client ID: HZBS0082AS001
 Batch ID: 908752
 Run Date: 10/04/2009 07:52
 Data File: 030f3001.d
 Prep Batch: 908751
 Prep Date: 10/02/2009 22:48

Client: SSFL001
 Date Collected: 10/01/2009 08:30
 Date Received: 10/02/2009 09:15

 Method: SW846 8015B EFH
 Analyst: KXR2
 Inj. Vol: 1 uL
 Prep Method: SW846 3550B
 Aliquot: 30.04 g

Project: SSFL00160
 Matrix: Soil
 %Moisture: 3.4

 Prep Basis: Dry Weight
 SOP Ref: GL-OA-E-003
 Instrument: FID7.I
 Dilution: 1
 Prep SOP Ref: GL-OA-E-010
 Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.44	mg/kg	1.14	3.44	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.44	mg/kg	1.14	3.44	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	J	1.74	mg/kg	1.14	3.44	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.44	mg/kg	1.14	3.44	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.18	1.72	mg/kg	68.7	(34%-108%)

Comments:

- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234007

Client ID: HZBS0082AS002
Batch ID: 908752
Run Date: 10/04/2009 08:28
Data File: 031f3101.d
Prep Batch: 908751
Prep Date: 10/02/2009 22:48

Client: SSFL001
Date Collected: 10/01/2009 09:05
Date Received: 10/02/2009 09:15

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.09 g

Project: SSFL00160
Matrix: Soil
%Moisture: 4.7

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.49	mg/kg	1.15	3.49	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.49	mg/kg	1.15	3.49	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	U	3.49	mg/kg	1.15	3.49	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.49	mg/kg	1.15	3.49	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.28	1.74	mg/kg	73.6	(34%-108%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

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SDG Number: 238234
Lab Sample ID: 238234008

Client: SSFL001
Date Collected: 10/01/2009 07:50
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1

Client ID: HZBS0084AS001
Batch ID: 908752
Run Date: 10/04/2009 09:05
Data File: 032f3201.d
Prep Batch: 908751
Prep Date: 10/02/2009 22:48

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.37	mg/kg	1.11	3.37	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.37	mg/kg	1.11	3.37	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	J	2.02	mg/kg	1.11	3.37	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.37	mg/kg	1.11	3.37	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.19	1.68	mg/kg	70.9	(34%-108%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234
 Lab Sample ID: 238234009
 Client ID: HZBS0084AS002
 Batch ID: 908752
 Run Date: 10/04/2009 09:42
 Data File: 033f3301.d
 Prep Batch: 908751
 Prep Date: 10/02/2009 22:48

Client: SSFL001
 Date Collected: 10/01/2009 08:15
 Date Received: 10/02/2009 09:15
 Method: SW846 8015B EFH
 Analyst: KXR2
 Inj. Vol: 1 uL
 Prep Method: SW846 3550B
 Aliquot: 30 g

Project: SSFL00160
 Matrix: Soil
 %Moisture: 4.8
 Prep Basis: Dry Weight
 SOP Ref: GL-OA-E-003
 Instrument: FID7.I
 Dilution: 1
 Prep SOP Ref: GL-OA-E-010
 Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.50	mg/kg	1.15	3.50	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.50	mg/kg	1.15	3.50	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	U	3.50	mg/kg	1.15	3.50	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.50	mg/kg	1.15	3.50	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.25	1.75	mg/kg	71.2	(34%-108%)

Comments:

- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234010

Client: SSFL001
Date Collected: 10/01/2009 13:15
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1.3

Client ID: HZBS0123AS001
Batch ID: 908752
Run Date: 10/04/2009 10:18
Data File: 034f3401.d
Prep Batch: 908751
Prep Date: 10/02/2009 22:48

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.38	mg/kg	1.11	3.38	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.38	mg/kg	1.11	3.38	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)		6.11	mg/kg	1.11	3.38	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.38	mg/kg	1.11	3.38	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.24	1.69	mg/kg	73.2	(34%-108%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Flame Ionization Detector
Certificate of Analysis
Sample Summary

Page 1 of 1

SDG Number: 238234
Lab Sample ID: 238234011

Client: SSFL001
Date Collected: 10/01/2009 13:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2.8

Client ID: HZBS0123AS002
Batch ID: 908752
Run Date: 10/04/2009 10:55
Data File: 035f3501.d
Prep Batch: 908751
Prep Date: 10/02/2009 22:48

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.43	mg/kg	1.13	3.43	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.43	mg/kg	1.13	3.43	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	J	2.31	mg/kg	1.13	3.43	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.43	mg/kg	1.13	3.43	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.33	1.72	mg/kg	77.4	(34%-108%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 238234
Lab Sample ID: 238234012

Client: SSFL001
Date Collected: 10/01/2009 11:00
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1.9

Client ID: HZBS0124AS001
Batch ID: 908752
Run Date: 10/04/2009 11:32
Data File: 036f3601.d
Prep Batch: 908751
Prep Date: 10/02/2009 22:48

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.40	mg/kg	1.12	3.40	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.40	mg/kg	1.12	3.40	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	J	2.80	mg/kg	1.12	3.40	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.40	mg/kg	1.12	3.40	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.11	1.70	mg/kg	65.1	(34%-108%)

Comments:

- J** Value is estimated
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234013

Client: SSFL001
Date Collected: 10/01/2009 12:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 3.8

Client ID: HZBS0124AS002
Batch ID: 908752
Run Date: 10/04/2009 13:23
Data File: 039f3901.d
Prep Batch: 908751
Prep Date: 10/02/2009 22:48

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.1
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.47	mg/kg	1.14	3.47	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.47	mg/kg	1.14	3.47	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	U	3.47	mg/kg	1.14	3.47	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.47	mg/kg	1.14	3.47	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.33	1.73	mg/kg	76.8	(34%-108%)

Comments:

- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

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SDG Number: 238234
Lab Sample ID: 238234014

Client: SSFL001
Date Collected: 10/01/2009 13:50
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1.4

Client ID: HZBS0175S001
Batch ID: 908752
Run Date: 10/04/2009 14:00
Data File: 040f4001.d
Prep Batch: 908751
Prep Date: 10/02/2009 22:48

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.09 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.1
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.37	mg/kg	1.11	3.37	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	J	1.52	mg/kg	1.11	3.37	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)		3.89	mg/kg	1.11	3.37	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.37	mg/kg	1.11	3.37	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.37	1.69	mg/kg	81.2	(34%-108%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234	Client: SSFL001	Project: SSFL00160
Lab Sample ID: 238234015	Date Collected: 10/01/2009 14:10	Matrix: Soil
	Date Received: 10/02/2009 09:15	%Moisture: 2.4
Client ID: HZBS0175S002		Prep Basis: Dry Weight
Batch ID: 908752	Method: SW846 8015B EFH	SOP Ref: GL-OA-E-003
Run Date: 10/04/2009 14:37	Analyst: KXR2	Instrument: FID7.I
Data File: 041f4101.d	Inj. Vol: 1 uL	Dilution: 1
Prep Batch: 908751	Prep Method: SW846 3550B	Prep SOP Ref: GL-OA-E-010
Prep Date: 10/02/2009 22:48	Aliquot: 30 g	Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.42	mg/kg	1.13	3.42	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.42	mg/kg	1.13	3.42	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	J	1.75	mg/kg	1.13	3.42	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.42	mg/kg	1.13	3.42	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.16	1.71	mg/kg	68.1	(34%-108%)

Comments:

- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234016

Client: SSFL001
Date Collected: 10/01/2009 15:00
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1.1

Client ID: HZBS0177S001
Batch ID: 908752
Run Date: 10/04/2009 15:13
Data File: 042f4201.d
Prep Batch: 908751
Prep Date: 10/02/2009 22:48

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.37	mg/kg	1.11	3.37	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.37	mg/kg	1.11	3.37	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)		5.07	mg/kg	1.11	3.37	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.37	mg/kg	1.11	3.37	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.34	1.69	mg/kg	79.5	(34%-108%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234	Client: SSFL001	Project: SSFL00160
Lab Sample ID: 238234017	Date Collected: 10/01/2009 15:15	Matrix: Soil
	Date Received: 10/02/2009 09:15	%Moisture: 10.8
Client ID: HZBS0177S002		Prep Basis: Dry Weight
Batch ID: 908752	Method: SW846 8015B EFH	SOP Ref: GL-OA-E-003
Run Date: 10/04/2009 15:50	Analyst: KXR2	Instrument: FID7.I
Data File: 043f4301.d	Inj. Vol: 1 uL	Dilution: 1
Prep Batch: 908751	Prep Method: SW846 3550B	Prep SOP Ref: GL-OA-E-010
Prep Date: 10/02/2009 22:48	Aliquot: 30.04 g	Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.73	mg/kg	1.23	3.73	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.73	mg/kg	1.23	3.73	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	U	3.73	mg/kg	1.23	3.73	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.73	mg/kg	1.23	3.73	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.58	1.87	mg/kg	84.5	(34%-108%)

Comments:

- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234018

Client: SSFL001
Date Collected: 10/01/2009 09:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2.2

Client ID: HZBS0180S001
Batch ID: 908752
Run Date: 10/04/2009 16:27
Data File: 044f4401.d
Prep Batch: 908751
Prep Date: 10/02/2009 22:48

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.03 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.41	mg/kg	1.12	3.41	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)		5.96	mg/kg	1.12	3.41	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)		24.0	mg/kg	1.12	3.41	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.41	mg/kg	1.12	3.41	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.35	1.70	mg/kg	79.4	(34%-108%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

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SDG Number: 238234
Lab Sample ID: 238234019

Client: SSFL001
Date Collected: 10/01/2009 10:00
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 4.1

Client ID: HZBS0180S002
Batch ID: 908752
Run Date: 10/04/2009 17:04
Data File: 045f4501.d
Prep Batch: 908751
Prep Date: 10/02/2009 22:48

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.02 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-003
Instrument: FID7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EFH (>C11 - C1)	EFH (>C11 - C14)	U	3.47	mg/kg	1.15	3.47	5.00
EFH (>C14 - C2)	EFH (>C14 - C20)	U	3.47	mg/kg	1.15	3.47	5.00
EFH (>C20 - C3)	EFH (>C20 - C30)	J	2.54	mg/kg	1.15	3.47	5.00
EFH (C8 - C11)	EFH (C8 - C11)	U	3.47	mg/kg	1.15	3.47	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.24	1.74	mg/kg	71.3	(34%-108%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

GC
SEMIVOLATILE
PCB
ANALYSIS

PCB
Certificate of Analysis
Sample Summary

SDG Number: 238234
 Lab Sample ID: 238234001

Client: SSFL001
 Date Collected: 10/01/2009 15:30
 Date Received: 10/02/2009 09:15

Project: SSFL00160
 Matrix: Water

Client ID: EBQW2249
 Batch ID: 908824
 Run Date: 10/07/2009 01:01
 Data File: Dual Column
 Prep Batch: 908823
 Prep Date: 10/05/2009 15:41

Method: SW846 8082
 Analyst: JAOC
 Inj. Vol: 1 uL
 Prep Method: SW846 3510C
 Aliquot: 1060 mL

Prep Basis: As Received
 SOP Ref: GL-OA-E-040
 Instrument: ECD2A.I
 Dilution: 1
 Prep SOP Ref: GL-OA-E-013
 Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	0.0943	ug/L	0.0314	0.0943	0.100	060f6001.d
11104-28-2	Aroclor-1221	U	0.0943	ug/L	0.0314	0.0943	0.200	060f6001.d
11141-16-5	Aroclor-1232	U	0.0943	ug/L	0.0314	0.0943	0.100	060f6001.d
53469-21-9	Aroclor-1242	U	0.0943	ug/L	0.0314	0.0943	0.100	060f6001.d
12672-29-6	Aroclor-1248	U	0.0943	ug/L	0.0314	0.0943	0.100	060f6001.d
11097-69-1	Aroclor-1254	U	0.0943	ug/L	0.0314	0.0943	0.100	060f6001.d
11096-82-5	Aroclor-1260	U	0.0943	ug/L	0.0314	0.0943	0.100	060f6001.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	0.113	0.189	ug/L	59.8	(29%–103%)	060f6001.d
Decachlorobiphenyl	0.0957	0.189	ug/L	50.7	(34%–118%)	060f6001.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234002

Client: SSFL001
Date Collected: 10/01/2009 10:18
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HVBF33AS01
Batch ID: 909548
Run Date: 10/07/2009 12:12
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.40	ug/kg	1.13	3.40	15.0	021f2101.d
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	15.0	021f2101.d
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	15.0	021f2101.d
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	15.0	021f2101.d
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	15.0	021f2101.d
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	15.0	021f2101.d
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	15.0	021f2101.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	3.85	6.80	ug/kg	56.6	(34%-105%)	021b2101.d
Decachlorobiphenyl	4.25	6.80	ug/kg	62.4	(33%-115%)	021b2101.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234003

Client: SSFL001
Date Collected: 10/01/2009 10:40
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 4.7
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HVBF33AS02
Batch ID: 909548
Run Date: 10/07/2009 12:23
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.09 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.49	ug/kg	1.16	3.49	15.0	022f2201.d
11104-28-2	Aroclor-1221	U	3.49	ug/kg	1.16	3.49	15.0	022f2201.d
11141-16-5	Aroclor-1232	U	3.49	ug/kg	1.16	3.49	15.0	022f2201.d
53469-21-9	Aroclor-1242	U	3.49	ug/kg	1.16	3.49	15.0	022f2201.d
12672-29-6	Aroclor-1248	U	3.49	ug/kg	1.16	3.49	15.0	022f2201.d
11097-69-1	Aroclor-1254	U	3.49	ug/kg	1.16	3.49	15.0	022f2201.d
11096-82-5	Aroclor-1260	U	3.49	ug/kg	1.16	3.49	15.0	022f2201.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	5.40	6.98	ug/kg	77.4	(34%-105%)	022b2201.d
Decachlorobiphenyl	5.84	6.98	ug/kg	83.7	(33%-115%)	022b2201.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234004

Client: SSFL001
Date Collected: 10/01/2009 14:35
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2.7
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0080AS001
Batch ID: 909548
Run Date: 10/07/2009 12:34
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.01 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.43	ug/kg	1.14	3.43	15.0	023f2301.d
11104-28-2	Aroclor-1221	U	3.43	ug/kg	1.14	3.43	15.0	023f2301.d
11141-16-5	Aroclor-1232	U	3.43	ug/kg	1.14	3.43	15.0	023f2301.d
53469-21-9	Aroclor-1242	U	3.43	ug/kg	1.14	3.43	15.0	023f2301.d
12672-29-6	Aroclor-1248	U	3.43	ug/kg	1.14	3.43	15.0	023f2301.d
11097-69-1	Aroclor-1254	U	3.43	ug/kg	1.14	3.43	15.0	023f2301.d
11096-82-5	Aroclor-1260	U	3.43	ug/kg	1.14	3.43	15.0	023f2301.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.56	6.85	ug/kg	66.5	(34%-105%)	023b2301.d
Decachlorobiphenyl	4.87	6.85	ug/kg	71.1	(33%-115%)	023b2301.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234005

Client: SSFL001
Date Collected: 10/01/2009 14:45
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 4.5
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0080AS002
Batch ID: 909548
Run Date: 10/07/2009 12:45
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.49	ug/kg	1.16	3.49	15.0	024f2401.d
11104-28-2	Aroclor-1221	U	3.49	ug/kg	1.16	3.49	15.0	024f2401.d
11141-16-5	Aroclor-1232	U	3.49	ug/kg	1.16	3.49	15.0	024f2401.d
53469-21-9	Aroclor-1242	U	3.49	ug/kg	1.16	3.49	15.0	024f2401.d
12672-29-6	Aroclor-1248	U	3.49	ug/kg	1.16	3.49	15.0	024f2401.d
11097-69-1	Aroclor-1254	U	3.49	ug/kg	1.16	3.49	15.0	024f2401.d
11096-82-5	Aroclor-1260	U	3.49	ug/kg	1.16	3.49	15.0	024f2401.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.83	6.98	ug/kg	69.1	(34%-105%)	024b2401.d
Decachlorobiphenyl	5.11	6.98	ug/kg	73.2	(33%-115%)	024b2401.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234006

Client: SSFL001
Date Collected: 10/01/2009 08:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 3.4
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0082AS001
Batch ID: 909548
Run Date: 10/07/2009 12:56
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.05 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.44	ug/kg	1.15	3.44	15.0	025b2501.d
11104-28-2	Aroclor-1221	U	3.44	ug/kg	1.15	3.44	15.0	025b2501.d
11141-16-5	Aroclor-1232	U	3.44	ug/kg	1.15	3.44	15.0	025b2501.d
53469-21-9	Aroclor-1242	U	3.44	ug/kg	1.15	3.44	15.0	025b2501.d
12672-29-6	Aroclor-1248	U	3.44	ug/kg	1.15	3.44	15.0	025b2501.d
11097-69-1	Aroclor-1254	U	3.44	ug/kg	1.15	3.44	15.0	025b2501.d
11096-82-5	Aroclor-1260	U	3.44	ug/kg	1.15	3.44	15.0	025b2501.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.38	6.89	ug/kg	63.6	(34%-105%)	025b2501.d
Decachlorobiphenyl	4.71	6.89	ug/kg	68.4	(33%-115%)	025b2501.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234007

Client: SSFL001
Date Collected: 10/01/2009 09:05
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 4.7
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0082AS002
Batch ID: 909548
Run Date: 10/07/2009 13:07
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.01 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.50	ug/kg	1.16	3.50	15.0	026b2601.d
11104-28-2	Aroclor-1221	U	3.50	ug/kg	1.16	3.50	15.0	026b2601.d
11141-16-5	Aroclor-1232	U	3.50	ug/kg	1.16	3.50	15.0	026b2601.d
53469-21-9	Aroclor-1242	U	3.50	ug/kg	1.16	3.50	15.0	026b2601.d
12672-29-6	Aroclor-1248	U	3.50	ug/kg	1.16	3.50	15.0	026b2601.d
11097-69-1	Aroclor-1254	U	3.50	ug/kg	1.16	3.50	15.0	026b2601.d
11096-82-5	Aroclor-1260	U	3.50	ug/kg	1.16	3.50	15.0	026b2601.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.86	7.00	ug/kg	69.5	(34%-105%)	026b2601.d
Decachlorobiphenyl	5.34	7.00	ug/kg	76.3	(33%-115%)	026b2601.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234008

Client: SSFL001
Date Collected: 10/01/2009 07:50
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0084AS001
Batch ID: 909548
Run Date: 10/07/2009 13:18
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	15.0	027b2701.d
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	15.0	027b2701.d
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	15.0	027b2701.d
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	15.0	027b2701.d
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	15.0	027b2701.d
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	15.0	027b2701.d
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	15.0	027b2701.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	3.84	6.73	ug/kg	57.1	(34%-105%)	027b2701.d
Decachlorobiphenyl	4.09	6.73	ug/kg	60.8	(33%-115%)	027b2701.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234009

Client: SSFL001
Date Collected: 10/01/2009 08:15
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 4.8
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0084AS002
Batch ID: 909548
Run Date: 10/07/2009 13:29
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.50	ug/kg	1.17	3.50	15.0	028b2801.d
11104-28-2	Aroclor-1221	U	3.50	ug/kg	1.17	3.50	15.0	028b2801.d
11141-16-5	Aroclor-1232	U	3.50	ug/kg	1.17	3.50	15.0	028b2801.d
53469-21-9	Aroclor-1242	U	3.50	ug/kg	1.17	3.50	15.0	028b2801.d
12672-29-6	Aroclor-1248	U	3.50	ug/kg	1.17	3.50	15.0	028b2801.d
11097-69-1	Aroclor-1254	U	3.50	ug/kg	1.17	3.50	15.0	028b2801.d
11096-82-5	Aroclor-1260	U	3.50	ug/kg	1.17	3.50	15.0	028b2801.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.31	7.00	ug/kg	61.6	(34%-105%)	028b2801.d
Decachlorobiphenyl	4.73	7.00	ug/kg	67.5	(33%-115%)	028b2801.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234010

Client: SSFL001
Date Collected: 10/01/2009 13:15
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1.3
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0123AS001
Batch ID: 909548
Run Date: 10/07/2009 13:40
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.06 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	15.0	029b2901.d
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	15.0	029b2901.d
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	15.0	029b2901.d
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	15.0	029b2901.d
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	15.0	029b2901.d
11097-69-1	Aroclor-1254	J	2.50	ug/kg	1.12	3.37	15.0	029b2901.d
11096-82-5	Aroclor-1260	P	5.20	ug/kg	1.12	3.37	15.0	029b2901.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	3.80	6.74	ug/kg	56.3	(34%-105%)	029b2901.d
Decachlorobiphenyl	3.89	6.74	ug/kg	57.7	(33%-115%)	029b2901.d

Comments:

J Value is estimated

P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234011

Client: SSFL001
Date Collected: 10/01/2009 13:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2.8
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0123AS002
Batch ID: 909548
Run Date: 10/07/2009 13:51
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.04 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.43	ug/kg	1.14	3.43	15.0	030f3001.d
11104-28-2	Aroclor-1221	U	3.43	ug/kg	1.14	3.43	15.0	030f3001.d
11141-16-5	Aroclor-1232	U	3.43	ug/kg	1.14	3.43	15.0	030f3001.d
53469-21-9	Aroclor-1242	U	3.43	ug/kg	1.14	3.43	15.0	030f3001.d
12672-29-6	Aroclor-1248	U	3.43	ug/kg	1.14	3.43	15.0	030f3001.d
11097-69-1	Aroclor-1254	U	3.43	ug/kg	1.14	3.43	15.0	030f3001.d
11096-82-5	Aroclor-1260	U	3.43	ug/kg	1.14	3.43	15.0	030f3001.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.72	6.85	ug/kg	68.9	(34%-105%)	030b3001.d
Decachlorobiphenyl	4.94	6.85	ug/kg	72.1	(33%-115%)	030b3001.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234012

Client: SSFL001
Date Collected: 10/01/2009 11:00
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1.9
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0124AS001
Batch ID: 909548
Run Date: 10/07/2009 14:25
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.40	ug/kg	1.13	3.40	15.0	033f3301.d
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	15.0	033f3301.d
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	15.0	033f3301.d
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	15.0	033f3301.d
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	15.0	033f3301.d
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	15.0	033f3301.d
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	15.0	033f3301.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.21	6.79	ug/kg	62.0	(34%-105%)	033b3301.d
Decachlorobiphenyl	4.63	6.79	ug/kg	68.1	(33%-115%)	033b3301.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234013

Client: SSFL001
Date Collected: 10/01/2009 12:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 3.8
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0124AS002
Batch ID: 909548
Run Date: 10/07/2009 14:36
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.47	ug/kg	1.15	3.47	15.0	034f3401.d
11104-28-2	Aroclor-1221	U	3.47	ug/kg	1.15	3.47	15.0	034f3401.d
11141-16-5	Aroclor-1232	U	3.47	ug/kg	1.15	3.47	15.0	034f3401.d
53469-21-9	Aroclor-1242	U	3.47	ug/kg	1.15	3.47	15.0	034f3401.d
12672-29-6	Aroclor-1248	U	3.47	ug/kg	1.15	3.47	15.0	034f3401.d
11097-69-1	Aroclor-1254	U	3.47	ug/kg	1.15	3.47	15.0	034f3401.d
11096-82-5	Aroclor-1260	U	3.47	ug/kg	1.15	3.47	15.0	034f3401.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.82	6.93	ug/kg	69.5	(34%-105%)	034b3401.d
Decachlorobiphenyl	5.37	6.93	ug/kg	77.4	(33%-115%)	034b3401.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234014

Client: SSFL001
Date Collected: 10/01/2009 13:50
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1.4
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0175S001
Batch ID: 909548
Run Date: 10/07/2009 14:47
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.02 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.38	ug/kg	1.13	3.38	15.0	035f3501.d
11104-28-2	Aroclor-1221	U	3.38	ug/kg	1.13	3.38	15.0	035f3501.d
11141-16-5	Aroclor-1232	U	3.38	ug/kg	1.13	3.38	15.0	035f3501.d
53469-21-9	Aroclor-1242	U	3.38	ug/kg	1.13	3.38	15.0	035f3501.d
12672-29-6	Aroclor-1248	U	3.38	ug/kg	1.13	3.38	15.0	035f3501.d
11097-69-1	Aroclor-1254	U	3.38	ug/kg	1.13	3.38	15.0	035f3501.d
11096-82-5	Aroclor-1260	U	3.38	ug/kg	1.13	3.38	15.0	035f3501.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	3.14	6.76	ug/kg	46.5	(34%-105%)	035b3501.d
Decachlorobiphenyl	3.22	6.76	ug/kg	47.6	(33%-115%)	035b3501.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234015

Client: SSFL001
Date Collected: 10/01/2009 14:10
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2.4
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0175S002
Batch ID: 909548
Run Date: 10/07/2009 14:58
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.07 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.41	ug/kg	1.13	3.41	15.0	036f3601.d
11104-28-2	Aroclor-1221	U	3.41	ug/kg	1.13	3.41	15.0	036f3601.d
11141-16-5	Aroclor-1232	U	3.41	ug/kg	1.13	3.41	15.0	036f3601.d
53469-21-9	Aroclor-1242	U	3.41	ug/kg	1.13	3.41	15.0	036f3601.d
12672-29-6	Aroclor-1248	U	3.41	ug/kg	1.13	3.41	15.0	036f3601.d
11097-69-1	Aroclor-1254	U	3.41	ug/kg	1.13	3.41	15.0	036f3601.d
11096-82-5	Aroclor-1260	U	3.41	ug/kg	1.13	3.41	15.0	036f3601.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.09	6.82	ug/kg	60.0	(34%-105%)	036b3601.d
Decachlorobiphenyl	4.53	6.82	ug/kg	66.5	(33%-115%)	036b3601.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234016

Client: SSFL001
Date Collected: 10/01/2009 15:00
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 1.1
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0177S001
Batch ID: 909548
Run Date: 10/07/2009 15:09
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.01 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.37	ug/kg	1.12	3.37	15.0	037f3701.d
11104-28-2	Aroclor-1221	U	3.37	ug/kg	1.12	3.37	15.0	037f3701.d
11141-16-5	Aroclor-1232	U	3.37	ug/kg	1.12	3.37	15.0	037f3701.d
53469-21-9	Aroclor-1242	U	3.37	ug/kg	1.12	3.37	15.0	037f3701.d
12672-29-6	Aroclor-1248	U	3.37	ug/kg	1.12	3.37	15.0	037f3701.d
11097-69-1	Aroclor-1254	U	3.37	ug/kg	1.12	3.37	15.0	037f3701.d
11096-82-5	Aroclor-1260	U	3.37	ug/kg	1.12	3.37	15.0	037f3701.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	3.42	6.74	ug/kg	50.8	(34%-105%)	037b3701.d
Decachlorobiphenyl	3.63	6.74	ug/kg	53.9	(33%-115%)	037b3701.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234017

Client: SSFL001
Date Collected: 10/01/2009 15:15
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 10.8
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0177S002
Batch ID: 909548
Run Date: 10/07/2009 15:20
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.74	ug/kg	1.24	3.74	15.0	038f3801.d
11104-28-2	Aroclor-1221	U	3.74	ug/kg	1.24	3.74	15.0	038f3801.d
11141-16-5	Aroclor-1232	U	3.74	ug/kg	1.24	3.74	15.0	038f3801.d
53469-21-9	Aroclor-1242	U	3.74	ug/kg	1.24	3.74	15.0	038f3801.d
12672-29-6	Aroclor-1248	U	3.74	ug/kg	1.24	3.74	15.0	038f3801.d
11097-69-1	Aroclor-1254	U	3.74	ug/kg	1.24	3.74	15.0	038f3801.d
11096-82-5	Aroclor-1260	U	3.74	ug/kg	1.24	3.74	15.0	038f3801.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	5.32	7.47	ug/kg	71.2	(34%-105%)	038b3801.d
Decachlorobiphenyl	5.83	7.47	ug/kg	78.0	(33%-115%)	038b3801.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234018

Client: SSFL001
Date Collected: 10/01/2009 09:30
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 2.2
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0180S001
Batch ID: 909548
Run Date: 10/07/2009 15:31
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.05 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.40	ug/kg	1.13	3.40	15.0	039f3901.d
11104-28-2	Aroclor-1221	U	3.40	ug/kg	1.13	3.40	15.0	039f3901.d
11141-16-5	Aroclor-1232	U	3.40	ug/kg	1.13	3.40	15.0	039f3901.d
53469-21-9	Aroclor-1242	U	3.40	ug/kg	1.13	3.40	15.0	039f3901.d
12672-29-6	Aroclor-1248	U	3.40	ug/kg	1.13	3.40	15.0	039f3901.d
11097-69-1	Aroclor-1254	U	3.40	ug/kg	1.13	3.40	15.0	039f3901.d
11096-82-5	Aroclor-1260	U	3.40	ug/kg	1.13	3.40	15.0	039f3901.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.12	6.81	ug/kg	60.6	(34%-105%)	039b3901.d
Decachlorobiphenyl	4.26	6.81	ug/kg	62.5	(33%-115%)	039b3901.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 238234
Lab Sample ID: 238234019

Client: SSFL001
Date Collected: 10/01/2009 10:00
Date Received: 10/02/2009 09:15

Project: SSFL00160
Matrix: Soil
%Moisture: 4.1
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0180S002
Batch ID: 909548
Run Date: 10/07/2009 15:42
Data File: Dual Column
Prep Batch: 909547
Prep Date: 10/06/2009 22:36

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.07 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.47	ug/kg	1.15	3.47	15.0	040f4001.d
11104-28-2	Aroclor-1221	U	3.47	ug/kg	1.15	3.47	15.0	040f4001.d
11141-16-5	Aroclor-1232	U	3.47	ug/kg	1.15	3.47	15.0	040f4001.d
53469-21-9	Aroclor-1242	U	3.47	ug/kg	1.15	3.47	15.0	040f4001.d
12672-29-6	Aroclor-1248	U	3.47	ug/kg	1.15	3.47	15.0	040f4001.d
11097-69-1	Aroclor-1254	U	3.47	ug/kg	1.15	3.47	15.0	040f4001.d
11096-82-5	Aroclor-1260	U	3.47	ug/kg	1.15	3.47	15.0	040f4001.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.52	6.93	ug/kg	65.2	(34%-105%)	040b4001.d
Decachlorobiphenyl	4.94	6.93	ug/kg	71.2	(33%-115%)	040b4001.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234001

BASIS: As Received

DATE COLLECTED 01-OCT-09

CLIENT ID: EBQW2249

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	68	ug/L	U	68	200	200	1	P	HSC	10/09/09 09:23	100909-2	909895
7440-36-0	Antimony	3	ug/L	U	3	10	10	1	P	HSC	10/09/09 09:23	100909-2	909895
7440-38-2	Arsenic	1.6	ug/L	U	1.6	5	5	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7440-39-3	Barium	0.60	ug/L	U	0.6	2	2	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7440-41-7	Beryllium	0.10	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7440-42-8	Boron	15	ug/L	U	15	50	50	1	P	HSC	10/09/09 09:23	100909-2	909895
7440-43-9	Cadmium	0.110	ug/L	U	0.11	1	1	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7440-47-3	Chromium	2	ug/L	U	2	10	3	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7440-48-4	Cobalt	0.10	ug/L	U	0.1	1	1	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7440-50-8	Copper	0.330	ug/L	U	0.33	1	1	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7439-92-1	Lead	0.50	ug/L	U	0.5	2	2	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7439-97-6	Mercury	0.066	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	10/08/09 10:38	100809W1-7	909786
7439-98-7	Molybdenum	0.167	ug/L	U	0.167	0.5	0.5	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7440-02-0	Nickel	0.50	ug/L	U	0.5	2	2	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7782-49-2	Selenium	1	ug/L	U	1	5	5	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7440-22-4	Silver	0.20	ug/L	U	0.2	1	1	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7440-28-0	Thallium	0.404	ug/L	J	0.3	1	1	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7440-62-2	Vanadium	3	ug/L	U	3	10	10	1	MS	BAJ	10/07/09 17:08	091007-6	908992
7440-66-6	Zinc	3	ug/L	U	3	10	10	1	MS	BAJ	10/07/09 17:08	091007-6	908992

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908992	908991	SW846 3005A	50	mL	50	mL	10/06/09	BCD1
909786	909784	SW846 7470A Prep	20	mL	20	mL	10/07/09	BCD1
909895	909894	SW846 3005A	50	mL	50	mL	10/08/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234004

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0080AS001

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 97.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	11300	mg/kg		6.74	19.8	10	1	P	HSC	10/08/09 14:17	100809-1	909653
7440-36-0	Antimony	1.49	mg/kg		0.327	0.991	1	1	P	HSC	10/08/09 14:17	100809-1	909653
7440-38-2	Arsenic	5.73	mg/kg		0.201	1.01	0.5	2	MS	BAJ	10/06/09 21:08	091006-3	908927
7440-39-3	Barium	92.3	mg/kg		0.101	0.402	0.5	2	MS	BAJ	10/07/09 04:43	091006-4	908927
7440-41-7	Beryllium	0.819	mg/kg		0.0201	0.101	0.3	2	MS	BAJ	10/07/09 04:43	091006-4	908927
7440-42-8	Boron	3.52	mg/kg	J	0.991	4.95	5	1	P	HSC	10/08/09 14:17	100809-1	909653
7440-43-9	Cadmium	0.234	mg/kg		0.0201	0.201	0.2	2	MS	BAJ	10/06/09 21:08	091006-3	908927
7440-47-3	Chromium	21.5	mg/kg		0.201	0.604	1	2	MS	BAJ	10/07/09 04:43	091006-4	908927
7440-48-4	Cobalt	5.86	mg/kg		0.0604	0.201	0.5	2	MS	BAJ	10/07/09 04:43	091006-4	908927
7440-50-8	Copper	10.1	mg/kg		0.0664	0.201	0.2	2	MS	BAJ	10/07/09 04:43	091006-4	908927
7439-92-1	Lead	15.4	mg/kg		0.101	0.402	0.4	2	MS	BAJ	10/06/09 21:08	091006-3	908927
7439-97-6	Mercury	0.0159	mg/kg		0.00377	0.0111	0.01	1	AV	JXL1	10/08/09 11:01	100809S1-8	909789
7439-98-7	Molybdenum	0.441	mg/kg		0.0604	0.201	0.1	2	MS	BAJ	10/06/09 21:08	091006-3	908927
7440-02-0	Nickel	13.9	mg/kg		0.101	0.402	0.4	2	MS	BAJ	10/07/09 04:43	091006-4	908927
7782-49-2	Selenium	0.503	mg/kg	U	0.503	1.01	1	2	MS	BAJ	10/07/09 04:43	091006-4	908927
7440-22-4	Silver	0.0751	mg/kg	J	0.0402	0.201	0.2	2	MS	BAJ	10/06/09 21:08	091006-3	908927
7440-28-0	Thallium	0.397	mg/kg		0.0604	0.201	0.2	2	MS	BAJ	10/06/09 21:08	091006-3	908927
7440-62-2	Vanadium	37.9	mg/kg		2.01	10.1	1	10	MS	BAJ	10/07/09 12:14	091007-5	908927
7440-66-6	Zinc	58.7	mg/kg		0.402	2.01	5	2	MS	BAJ	10/06/09 21:08	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.511	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.519	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.556	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234005

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0080AS002

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 95.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	14700	mg/kg		6.97	20.5	10	1	P	HSC	10/08/09 14:40	100809-1	909653
7440-36-0	Antimony	1.68	mg/kg		0.338	1.02	1	1	P	HSC	10/08/09 14:40	100809-1	909653
7440-38-2	Arsenic	6.59	mg/kg		0.209	1.04	0.5	2	MS	BAJ	10/06/09 21:14	091006-3	908927
7440-39-3	Barium	73	mg/kg		0.104	0.417	0.5	2	MS	BAJ	10/07/09 04:50	091006-4	908927
7440-41-7	Beryllium	0.868	mg/kg		0.0209	0.104	0.3	2	MS	BAJ	10/07/09 04:50	091006-4	908927
7440-42-8	Boron	3.22	mg/kg	J	1.02	5.12	5	1	P	HSC	10/08/09 14:40	100809-1	909653
7440-43-9	Cadmium	0.193	mg/kg	J	0.0209	0.209	0.2	2	MS	BAJ	10/06/09 21:14	091006-3	908927
7440-47-3	Chromium	23.1	mg/kg		0.209	0.626	1	2	MS	BAJ	10/07/09 04:50	091006-4	908927
7440-48-4	Cobalt	4.73	mg/kg		0.0626	0.209	0.5	2	MS	BAJ	10/07/09 04:50	091006-4	908927
7440-50-8	Copper	11.9	mg/kg		0.0689	0.209	0.2	2	MS	BAJ	10/07/09 04:50	091006-4	908927
7439-92-1	Lead	9.1	mg/kg		0.104	0.417	0.4	2	MS	BAJ	10/06/09 21:14	091006-3	908927
7439-97-6	Mercury	0.0145	mg/kg		0.00399	0.0117	0.01	1	AV	JXL1	10/08/09 11:11	100809S1-8	909789
7439-98-7	Molybdenum	0.414	mg/kg		0.0626	0.209	0.1	2	MS	BAJ	10/06/09 21:14	091006-3	908927
7440-02-0	Nickel	13.7	mg/kg		0.104	0.417	0.4	2	MS	BAJ	10/07/09 04:50	091006-4	908927
7782-49-2	Selenium	0.522	mg/kg	U	0.522	1.04	1	2	MS	BAJ	10/07/09 04:50	091006-4	908927
7440-22-4	Silver	0.0808	mg/kg	J	0.0417	0.209	0.2	2	MS	BAJ	10/06/09 21:14	091006-3	908927
7440-28-0	Thallium	0.371	mg/kg		0.0626	0.209	0.2	2	MS	BAJ	10/06/09 21:14	091006-3	908927
7440-62-2	Vanadium	42.7	mg/kg		2.09	10.4	1	10	MS	BAJ	10/07/09 12:17	091007-5	908927
7440-66-6	Zinc	59.9	mg/kg		0.417	2.09	5	2	MS	BAJ	10/06/09 21:14	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.502	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.511	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.535	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234006

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0082AS001

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 96.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	12400	mg/kg		7.02	20.7	10	1	P	HSC	10/08/09 14:43	100809-1	909653
7440-36-0	Antimony	1.83	mg/kg		0.341	1.03	1	1	P	HSC	10/08/09 14:43	100809-1	909653
7440-38-2	Arsenic	5.66	mg/kg		0.207	1.03	0.5	2	MS	BAJ	10/06/09 21:20	091006-3	908927
7440-39-3	Barium	83.9	mg/kg		0.103	0.414	0.5	2	MS	BAJ	10/07/09 04:56	091006-4	908927
7440-41-7	Beryllium	0.743	mg/kg		0.0207	0.103	0.3	2	MS	BAJ	10/07/09 04:56	091006-4	908927
7440-42-8	Boron	3.57	mg/kg	J	1.03	5.16	5	1	P	HSC	10/08/09 14:43	100809-1	909653
7440-43-9	Cadmium	0.271	mg/kg		0.0207	0.207	0.2	2	MS	BAJ	10/06/09 21:20	091006-3	908927
7440-47-3	Chromium	17.5	mg/kg		0.207	0.621	1	2	MS	BAJ	10/07/09 04:56	091006-4	908927
7440-48-4	Cobalt	5.92	mg/kg		0.0621	0.207	0.5	2	MS	BAJ	10/07/09 04:56	091006-4	908927
7440-50-8	Copper	9.02	mg/kg		0.0683	0.207	0.2	2	MS	BAJ	10/07/09 04:56	091006-4	908927
7439-92-1	Lead	17.5	mg/kg		0.103	0.414	0.4	2	MS	BAJ	10/06/09 21:20	091006-3	908927
7439-97-6	Mercury	0.011	mg/kg		0.00351	0.0103	0.01	1	AV	JXL1	10/08/09 11:13	100809S1-8	909789
7439-98-7	Molybdenum	0.691	mg/kg		0.0621	0.207	0.1	2	MS	BAJ	10/06/09 21:20	091006-3	908927
7440-02-0	Nickel	12.9	mg/kg		0.103	0.414	0.4	2	MS	BAJ	10/07/09 04:56	091006-4	908927
7782-49-2	Selenium	0.517	mg/kg	U	0.517	1.03	1	2	MS	BAJ	10/07/09 04:56	091006-4	908927
7440-22-4	Silver	0.0797	mg/kg	J	0.0414	0.207	0.2	2	MS	BAJ	10/06/09 21:20	091006-3	908927
7440-28-0	Thallium	0.338	mg/kg		0.0621	0.207	0.2	2	MS	BAJ	10/06/09 21:20	091006-3	908927
7440-62-2	Vanadium	34.5	mg/kg		2.07	10.3	1	10	MS	BAJ	10/07/09 12:20	091007-5	908927
7440-66-6	Zinc	54.5	mg/kg		0.414	2.07	5	2	MS	BAJ	10/06/09 21:20	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.5	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.501	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.602	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234007

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0082AS002

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 95.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	13200	mg/kg		6.89	20.3	10	1	P	HSC	10/08/09 14:46	100809-1	909653
7440-36-0	Antimony	1.62	mg/kg		0.334	1.01	1	1	P	HSC	10/08/09 14:46	100809-1	909653
7440-38-2	Arsenic	5.52	mg/kg		0.2	1	0.5	2	MS	BAJ	10/06/09 21:26	091006-3	908927
7440-39-3	Barium	83	mg/kg		0.1	0.4	0.5	2	MS	BAJ	10/07/09 05:02	091006-4	908927
7440-41-7	Beryllium	0.764	mg/kg		0.02	0.1	0.3	2	MS	BAJ	10/07/09 05:02	091006-4	908927
7440-42-8	Boron	2.65	mg/kg	J	1.01	5.07	5	1	P	HSC	10/08/09 14:46	100809-1	909653
7440-43-9	Cadmium	0.134	mg/kg	J	0.02	0.2	0.2	2	MS	BAJ	10/06/09 21:26	091006-3	908927
7440-47-3	Chromium	16.9	mg/kg		0.2	0.6	1	2	MS	BAJ	10/07/09 05:02	091006-4	908927
7440-48-4	Cobalt	5.82	mg/kg		0.06	0.2	0.5	2	MS	BAJ	10/07/09 05:02	091006-4	908927
7440-50-8	Copper	8.01	mg/kg		0.066	0.2	0.2	2	MS	BAJ	10/07/09 05:02	091006-4	908927
7439-92-1	Lead	8.2	mg/kg		0.1	0.4	0.4	2	MS	BAJ	10/06/09 21:26	091006-3	908927
7439-97-6	Mercury	0.00718	mg/kg	J	0.00384	0.0113	0.01	1	AV	JXL1	10/08/09 11:15	100809S1-8	909789
7439-98-7	Molybdenum	0.626	mg/kg		0.06	0.2	0.1	2	MS	BAJ	10/06/09 21:26	091006-3	908927
7440-02-0	Nickel	10.8	mg/kg		0.1	0.4	0.4	2	MS	BAJ	10/07/09 05:02	091006-4	908927
7782-49-2	Selenium	0.50	mg/kg	U	0.5	1	1	2	MS	BAJ	10/07/09 05:02	091006-4	908927
7440-22-4	Silver	0.0704	mg/kg	J	0.04	0.2	0.2	2	MS	BAJ	10/06/09 21:26	091006-3	908927
7440-28-0	Thallium	0.288	mg/kg		0.06	0.2	0.2	2	MS	BAJ	10/06/09 21:26	091006-3	908927
7440-62-2	Vanadium	34.3	mg/kg		2	10	1	10	MS	BAJ	10/07/09 12:22	091007-5	908927
7440-66-6	Zinc	50.3	mg/kg		0.4	2	5	2	MS	BAJ	10/06/09 21:26	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.525	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.518	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.558	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234008

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0084AS001

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 99.05

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	10900	mg/kg		6.73	19.8	10	1	P	HSC	10/08/09 14:49	100809-1	909653
7440-36-0	Antimony	1.54	mg/kg		0.327	0.99	1	1	P	HSC	10/08/09 14:49	100809-1	909653
7440-38-2	Arsenic	5.29	mg/kg		0.201	1	0.5	2	MS	BAJ	10/06/09 21:32	091006-3	908927
7440-39-3	Barium	96	mg/kg		0.1	0.401	0.5	2	MS	BAJ	10/07/09 05:08	091006-4	908927
7440-41-7	Beryllium	0.672	mg/kg		0.0201	0.1	0.3	2	MS	BAJ	10/07/09 05:08	091006-4	908927
7440-42-8	Boron	2.81	mg/kg	J	0.99	4.95	5	1	P	HSC	10/08/09 14:49	100809-1	909653
7440-43-9	Cadmium	0.247	mg/kg		0.0201	0.201	0.2	2	MS	BAJ	10/06/09 21:32	091006-3	908927
7440-47-3	Chromium	17.1	mg/kg		0.201	0.602	1	2	MS	BAJ	10/07/09 05:08	091006-4	908927
7440-48-4	Cobalt	6.07	mg/kg		0.0602	0.201	0.5	2	MS	BAJ	10/07/09 05:08	091006-4	908927
7440-50-8	Copper	8.94	mg/kg		0.0662	0.201	0.2	2	MS	BAJ	10/07/09 05:08	091006-4	908927
7439-92-1	Lead	13.5	mg/kg		0.1	0.401	0.4	2	MS	BAJ	10/06/09 21:32	091006-3	908927
7439-97-6	Mercury	0.0153	mg/kg		0.00403	0.0119	0.01	1	AV	JXL1	10/08/09 11:21	100809S1-8	909789
7439-98-7	Molybdenum	0.609	mg/kg		0.0602	0.201	0.1	2	MS	BAJ	10/06/09 21:32	091006-3	908927
7440-02-0	Nickel	12.4	mg/kg		0.1	0.401	0.4	2	MS	BAJ	10/07/09 05:08	091006-4	908927
7782-49-2	Selenium	0.502	mg/kg	U	0.502	1	1	2	MS	BAJ	10/07/09 05:08	091006-4	908927
7440-22-4	Silver	0.0827	mg/kg	J	0.0401	0.201	0.2	2	MS	BAJ	10/06/09 21:32	091006-3	908927
7440-28-0	Thallium	0.307	mg/kg		0.0602	0.201	0.2	2	MS	BAJ	10/06/09 21:32	091006-3	908927
7440-62-2	Vanadium	33.4	mg/kg		2.01	10	1	10	MS	BAJ	10/07/09 12:25	091007-5	908927
7440-66-6	Zinc	51.1	mg/kg		0.401	2.01	5	2	MS	BAJ	10/06/09 21:32	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.503	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.51	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.511	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234009

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0084AS002

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 95.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	14300	mg/kg		6.8	20	10	1	P	HSC	10/08/09 14:52	100809-1	909653
7440-36-0	Antimony	1.5	mg/kg		0.33	1	1	1	P	HSC	10/08/09 14:52	100809-1	909653
7440-38-2	Arsenic	4.92	mg/kg		0.2	1	0.5	2	MS	BAJ	10/06/09 21:38	091006-3	908927
7440-39-3	Barium	61.4	mg/kg		0.1	0.4	0.5	2	MS	BAJ	10/07/09 05:14	091006-4	908927
7440-41-7	Beryllium	0.686	mg/kg		0.02	0.1	0.3	2	MS	BAJ	10/07/09 05:14	091006-4	908927
7440-42-8	Boron	2.43	mg/kg	J	1	5	5	1	P	HSC	10/08/09 14:52	100809-1	909653
7440-43-9	Cadmium	0.106	mg/kg	J	0.02	0.2	0.2	2	MS	BAJ	10/06/09 21:38	091006-3	908927
7440-47-3	Chromium	17.5	mg/kg		0.2	0.6	1	2	MS	BAJ	10/07/09 05:14	091006-4	908927
7440-48-4	Cobalt	3.81	mg/kg		0.06	0.2	0.5	2	MS	BAJ	10/07/09 05:14	091006-4	908927
7440-50-8	Copper	6.59	mg/kg		0.066	0.2	0.2	2	MS	BAJ	10/07/09 05:14	091006-4	908927
7439-92-1	Lead	7.76	mg/kg		0.1	0.4	0.4	2	MS	BAJ	10/06/09 21:38	091006-3	908927
7439-97-6	Mercury	0.00783	mg/kg	J	0.00418	0.0123	0.01	1	AV	JXL1	10/08/09 11:23	100809S1-8	909789
7439-98-7	Molybdenum	0.459	mg/kg		0.06	0.2	0.1	2	MS	BAJ	10/06/09 21:38	091006-3	908927
7440-02-0	Nickel	8.22	mg/kg		0.1	0.4	0.4	2	MS	BAJ	10/07/09 05:14	091006-4	908927
7782-49-2	Selenium	0.50	mg/kg	U	0.5	1	1	2	MS	BAJ	10/07/09 05:14	091006-4	908927
7440-22-4	Silver	0.0658	mg/kg	J	0.04	0.2	0.2	2	MS	BAJ	10/06/09 21:38	091006-3	908927
7440-28-0	Thallium	0.203	mg/kg		0.06	0.2	0.2	2	MS	BAJ	10/06/09 21:38	091006-3	908927
7440-62-2	Vanadium	35.3	mg/kg		2	10	1	10	MS	BAJ	10/07/09 12:28	091007-5	908927
7440-66-6	Zinc	42.8	mg/kg		0.4	2	5	2	MS	BAJ	10/06/09 21:38	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.525	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.525	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.512	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234010

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0123AS001

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 98.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9320	mg/kg		6.81	20	10	1	P	HSC	10/08/09 14:55	100809-1	909653
7440-36-0	Antimony	1.54	mg/kg		0.33	1	1	1	P	HSC	10/08/09 14:55	100809-1	909653
7440-38-2	Arsenic	5.06	mg/kg		0.194	0.972	0.5	2	MS	BAJ	10/06/09 21:57	091006-3	908927
7440-39-3	Barium	88.1	mg/kg		0.0972	0.389	0.5	2	MS	BAJ	10/07/09 05:33	091006-4	908927
7440-41-7	Beryllium	0.608	mg/kg		0.0194	0.0972	0.3	2	MS	BAJ	10/07/09 05:33	091006-4	908927
7440-42-8	Boron	4.19	mg/kg	J	1	5	5	1	P	HSC	10/08/09 14:55	100809-1	909653
7440-43-9	Cadmium	0.338	mg/kg		0.0194	0.194	0.2	2	MS	BAJ	10/06/09 21:57	091006-3	908927
7440-47-3	Chromium	18.3	mg/kg		0.194	0.583	1	2	MS	BAJ	10/07/09 05:33	091006-4	908927
7440-48-4	Cobalt	5.85	mg/kg		0.0583	0.194	0.5	2	MS	BAJ	10/07/09 05:33	091006-4	908927
7440-50-8	Copper	9.87	mg/kg		0.0642	0.194	0.2	2	MS	BAJ	10/07/09 05:33	091006-4	908927
7439-92-1	Lead	20.4	mg/kg		0.0972	0.389	0.4	2	MS	BAJ	10/06/09 21:57	091006-3	908927
7439-97-6	Mercury	0.0219	mg/kg		0.00412	0.0121	0.01	1	AV	JXL1	10/08/09 11:25	100809S1-8	909789
7439-98-7	Molybdenum	0.530	mg/kg		0.0583	0.194	0.1	2	MS	BAJ	10/06/09 21:57	091006-3	908927
7440-02-0	Nickel	13.2	mg/kg		0.0972	0.389	0.4	2	MS	BAJ	10/07/09 05:33	091006-4	908927
7782-49-2	Selenium	0.486	mg/kg	U	0.486	0.972	1	2	MS	BAJ	10/07/09 05:33	091006-4	908927
7440-22-4	Silver	0.0721	mg/kg	J	0.0389	0.194	0.2	2	MS	BAJ	10/06/09 21:57	091006-3	908927
7440-28-0	Thallium	0.306	mg/kg		0.0583	0.194	0.2	2	MS	BAJ	10/06/09 21:57	091006-3	908927
7440-62-2	Vanadium	33.6	mg/kg		1.94	9.72	1	10	MS	BAJ	10/07/09 12:36	091007-5	908927
7440-66-6	Zinc	58.3	mg/kg		0.389	1.94	5	2	MS	BAJ	10/06/09 21:57	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.521	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.506	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.502	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234011

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0123AS002

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 97.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	10600	mg/kg		6.87	20.2	10	1	P	HSC	10/08/09 14:58	100809-1	909653
7440-36-0	Antimony	1.52	mg/kg		0.334	1.01	1	1	P	HSC	10/08/09 14:58	100809-1	909653
7440-38-2	Arsenic	5	mg/kg		0.204	1.02	0.5	2	MS	BAJ	10/06/09 22:03	091006-3	908927
7440-39-3	Barium	69	mg/kg		0.102	0.408	0.5	2	MS	BAJ	10/07/09 05:39	091006-4	908927
7440-41-7	Beryllium	0.622	mg/kg		0.0204	0.102	0.3	2	MS	BAJ	10/07/09 05:39	091006-4	908927
7440-42-8	Boron	2.69	mg/kg	J	1.01	5.05	5	1	P	HSC	10/08/09 14:58	100809-1	909653
7440-43-9	Cadmium	0.205	mg/kg		0.0204	0.204	0.2	2	MS	BAJ	10/06/09 22:03	091006-3	908927
7440-47-3	Chromium	19.9	mg/kg		0.204	0.611	1	2	MS	BAJ	10/07/09 05:39	091006-4	908927
7440-48-4	Cobalt	7.19	mg/kg		0.0611	0.204	0.5	2	MS	BAJ	10/07/09 05:39	091006-4	908927
7440-50-8	Copper	7.69	mg/kg		0.0673	0.204	0.2	2	MS	BAJ	10/07/09 05:39	091006-4	908927
7439-92-1	Lead	7.97	mg/kg		0.102	0.408	0.4	2	MS	BAJ	10/06/09 22:03	091006-3	908927
7439-97-6	Mercury	0.00769	mg/kg	J	0.00357	0.0105	0.01	1	AV	JXL1	10/08/09 11:27	100809S1-8	909789
7439-98-7	Molybdenum	0.498	mg/kg		0.0611	0.204	0.1	2	MS	BAJ	10/06/09 22:03	091006-3	908927
7440-02-0	Nickel	12	mg/kg		0.102	0.408	0.4	2	MS	BAJ	10/07/09 05:39	091006-4	908927
7782-49-2	Selenium	0.509	mg/kg	U	0.509	1.02	1	2	MS	BAJ	10/07/09 05:39	091006-4	908927
7440-22-4	Silver	0.0432	mg/kg	J	0.0408	0.204	0.2	2	MS	BAJ	10/06/09 22:03	091006-3	908927
7440-28-0	Thallium	0.275	mg/kg		0.0611	0.204	0.2	2	MS	BAJ	10/06/09 22:03	091006-3	908927
7440-62-2	Vanadium	33.5	mg/kg		2.04	10.2	1	10	MS	BAJ	10/07/09 12:38	091007-5	908927
7440-66-6	Zinc	53.1	mg/kg		0.408	2.04	5	2	MS	BAJ	10/06/09 22:03	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.505	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.509	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.588	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234012

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0124AS001

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 98.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	10500	mg/kg		6.93	20.4	10	1	P	HSC	10/08/09 15:00	100809-1	909653
7440-36-0	Antimony	1.36	mg/kg		0.336	1.02	1	1	P	HSC	10/08/09 15:00	100809-1	909653
7440-38-2	Arsenic	5.56	mg/kg		0.202	1.01	0.5	2	MS	BAJ	10/06/09 22:09	091006-3	908927
7440-39-3	Barium	82.8	mg/kg		0.101	0.404	0.5	2	MS	BAJ	10/07/09 05:45	091006-4	908927
7440-41-7	Beryllium	0.690	mg/kg		0.0202	0.101	0.3	2	MS	BAJ	10/07/09 05:45	091006-4	908927
7440-42-8	Boron	2.98	mg/kg	J	1.02	5.1	5	1	P	HSC	10/08/09 15:00	100809-1	909653
7440-43-9	Cadmium	0.269	mg/kg		0.0202	0.202	0.2	2	MS	BAJ	10/06/09 22:09	091006-3	908927
7440-47-3	Chromium	18.1	mg/kg		0.202	0.607	1	2	MS	BAJ	10/07/09 05:45	091006-4	908927
7440-48-4	Cobalt	6.06	mg/kg		0.0607	0.202	0.5	2	MS	BAJ	10/07/09 05:45	091006-4	908927
7440-50-8	Copper	9.28	mg/kg		0.0667	0.202	0.2	2	MS	BAJ	10/07/09 05:45	091006-4	908927
7439-92-1	Lead	10.5	mg/kg		0.101	0.404	0.4	2	MS	BAJ	10/06/09 22:09	091006-3	908927
7439-97-6	Mercury	0.0113	mg/kg		0.00382	0.0112	0.01	1	AV	JXL1	10/08/09 11:29	100809S1-8	909789
7439-98-7	Molybdenum	0.587	mg/kg		0.0607	0.202	0.1	2	MS	BAJ	10/06/09 22:09	091006-3	908927
7440-02-0	Nickel	13.3	mg/kg		0.101	0.404	0.4	2	MS	BAJ	10/07/09 05:45	091006-4	908927
7782-49-2	Selenium	0.505	mg/kg	U	0.505	1.01	1	2	MS	BAJ	10/07/09 05:45	091006-4	908927
7440-22-4	Silver	0.071	mg/kg	J	0.0404	0.202	0.2	2	MS	BAJ	10/06/09 22:09	091006-3	908927
7440-28-0	Thallium	0.294	mg/kg		0.0607	0.202	0.2	2	MS	BAJ	10/06/09 22:09	091006-3	908927
7440-62-2	Vanadium	33.8	mg/kg		2.02	10.1	1	10	MS	BAJ	10/07/09 12:42	091007-5	908927
7440-66-6	Zinc	53.1	mg/kg		0.404	2.02	5	2	MS	BAJ	10/06/09 22:09	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.504	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.5	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.544	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234013

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0124AS002

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 96.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	14100	mg/kg		6.84	20.1	10	1	P	HSC	10/08/09 15:11	100809-1	909653
7440-36-0	Antimony	1.49	mg/kg		0.332	1.01	1	1	P	HSC	10/08/09 15:11	100809-1	909653
7440-38-2	Arsenic	5.37	mg/kg		0.202	1.01	0.5	2	MS	BAJ	10/06/09 22:15	091006-3	908927
7440-39-3	Barium	93	mg/kg		0.101	0.403	0.5	2	MS	BAJ	10/07/09 05:51	091006-4	908927
7440-41-7	Beryllium	0.736	mg/kg		0.0202	0.101	0.3	2	MS	BAJ	10/07/09 05:51	091006-4	908927
7440-42-8	Boron	3	mg/kg	J	1.01	5.03	5	1	P	HSC	10/08/09 15:11	100809-1	909653
7440-43-9	Cadmium	0.188	mg/kg	J	0.0202	0.202	0.2	2	MS	BAJ	10/06/09 22:15	091006-3	908927
7440-47-3	Chromium	17.4	mg/kg		0.202	0.605	1	2	MS	BAJ	10/07/09 05:51	091006-4	908927
7440-48-4	Cobalt	5.46	mg/kg		0.0605	0.202	0.5	2	MS	BAJ	10/07/09 05:51	091006-4	908927
7440-50-8	Copper	8.89	mg/kg		0.0665	0.202	0.2	2	MS	BAJ	10/07/09 05:51	091006-4	908927
7439-92-1	Lead	7.95	mg/kg		0.101	0.403	0.4	2	MS	BAJ	10/06/09 22:15	091006-3	908927
7439-97-6	Mercury	0.0109	mg/kg	J	0.00424	0.0125	0.01	1	AV	JXL1	10/08/09 11:31	100809S1-8	909789
7439-98-7	Molybdenum	0.555	mg/kg		0.0605	0.202	0.1	2	MS	BAJ	10/06/09 22:15	091006-3	908927
7440-02-0	Nickel	12	mg/kg		0.101	0.403	0.4	2	MS	BAJ	10/07/09 05:51	091006-4	908927
7782-49-2	Selenium	0.504	mg/kg	U	0.504	1.01	1	2	MS	BAJ	10/07/09 05:51	091006-4	908927
7440-22-4	Silver	0.0691	mg/kg	J	0.0403	0.202	0.2	2	MS	BAJ	10/06/09 22:15	091006-3	908927
7440-28-0	Thallium	0.269	mg/kg		0.0605	0.202	0.2	2	MS	BAJ	10/06/09 22:15	091006-3	908927
7440-62-2	Vanadium	32.8	mg/kg		2.02	10.1	1	10	MS	BAJ	10/07/09 12:45	091007-5	908927
7440-66-6	Zinc	52.8	mg/kg		0.403	2.02	5	2	MS	BAJ	10/06/09 22:15	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.516	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.517	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.5	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234014

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0175S001

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 98.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	10900	mg/kg		6.82	20.1	10	1	P	HSC	10/08/09 15:14	100809-1	909653
7440-36-0	Antimony	1.71	mg/kg		0.331	1	1	1	P	HSC	10/08/09 15:14	100809-1	909653
7440-38-2	Arsenic	5.85	mg/kg		0.199	0.993	0.5	2	MS	BAJ	10/06/09 22:22	091006-3	908927
7440-39-3	Barium	82.1	mg/kg		0.0993	0.397	0.5	2	MS	BAJ	10/07/09 05:57	091006-4	908927
7440-41-7	Beryllium	0.696	mg/kg		0.0199	0.0993	0.3	2	MS	BAJ	10/07/09 05:57	091006-4	908927
7440-42-8	Boron	4.11	mg/kg	J	1	5.01	5	1	P	HSC	10/08/09 15:14	100809-1	909653
7440-43-9	Cadmium	0.290	mg/kg		0.0199	0.199	0.2	2	MS	BAJ	10/06/09 22:22	091006-3	908927
7440-47-3	Chromium	19.7	mg/kg		0.199	0.596	1	2	MS	BAJ	10/07/09 05:57	091006-4	908927
7440-48-4	Cobalt	5.94	mg/kg		0.0596	0.199	0.5	2	MS	BAJ	10/07/09 05:57	091006-4	908927
7440-50-8	Copper	11.3	mg/kg		0.0655	0.199	0.2	2	MS	BAJ	10/07/09 05:57	091006-4	908927
7439-92-1	Lead	17.3	mg/kg		0.0993	0.397	0.4	2	MS	BAJ	10/06/09 22:22	091006-3	908927
7439-97-6	Mercury	0.0146	mg/kg		0.00411	0.0121	0.01	1	AV	JXL1	10/08/09 11:33	100809S1-8	909789
7439-98-7	Molybdenum	0.509	mg/kg		0.0596	0.199	0.1	2	MS	BAJ	10/06/09 22:22	091006-3	908927
7440-02-0	Nickel	14.4	mg/kg		0.0993	0.397	0.4	2	MS	BAJ	10/07/09 05:57	091006-4	908927
7782-49-2	Selenium	0.496	mg/kg	U	0.496	0.993	1	2	MS	BAJ	10/07/09 05:57	091006-4	908927
7440-22-4	Silver	0.086	mg/kg	J	0.0397	0.199	0.2	2	MS	BAJ	10/06/09 22:22	091006-3	908927
7440-28-0	Thallium	0.314	mg/kg		0.0596	0.199	0.2	2	MS	BAJ	10/06/09 22:22	091006-3	908927
7440-62-2	Vanadium	35.8	mg/kg		1.99	9.93	1	10	MS	BAJ	10/07/09 12:48	091007-5	908927
7440-66-6	Zinc	57.6	mg/kg		0.397	1.99	5	2	MS	BAJ	10/06/09 22:22	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.511	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.506	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.504	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234015

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0175S002

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 97.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9570	mg/kg		6.79	20	10	1	P	HSC	10/08/09 15:17	100809-1	909653
7440-36-0	Antimony	1.21	mg/kg		0.33	0.999	1	1	P	HSC	10/08/09 15:17	100809-1	909653
7440-38-2	Arsenic	4.33	mg/kg		0.199	0.997	0.5	2	MS	BAJ	10/06/09 22:28	091006-3	908927
7440-39-3	Barium	63.9	mg/kg		0.0997	0.399	0.5	2	MS	BAJ	10/07/09 06:04	091006-4	908927
7440-41-7	Beryllium	0.550	mg/kg		0.0199	0.0997	0.3	2	MS	BAJ	10/07/09 06:04	091006-4	908927
7440-42-8	Boron	2.19	mg/kg	J	0.999	4.99	5	1	P	HSC	10/08/09 15:17	100809-1	909653
7440-43-9	Cadmium	0.149	mg/kg	J	0.0199	0.199	0.2	2	MS	BAJ	10/06/09 22:28	091006-3	908927
7440-47-3	Chromium	16	mg/kg		0.199	0.598	1	2	MS	BAJ	10/07/09 06:04	091006-4	908927
7440-48-4	Cobalt	6.65	mg/kg		0.0598	0.199	0.5	2	MS	BAJ	10/07/09 06:04	091006-4	908927
7440-50-8	Copper	7.18	mg/kg		0.0658	0.199	0.2	2	MS	BAJ	10/07/09 06:04	091006-4	908927
7439-92-1	Lead	6.84	mg/kg		0.0997	0.399	0.4	2	MS	BAJ	10/06/09 22:28	091006-3	908927
7439-97-6	Mercury	0.00874	mg/kg	J	0.00353	0.0104	0.01	1	AV	JXL1	10/08/09 11:35	100809S1-8	909789
7439-98-7	Molybdenum	0.314	mg/kg		0.0598	0.199	0.1	2	MS	BAJ	10/06/09 22:28	091006-3	908927
7440-02-0	Nickel	11	mg/kg		0.0997	0.399	0.4	2	MS	BAJ	10/07/09 06:04	091006-4	908927
7782-49-2	Selenium	0.498	mg/kg	U	0.498	0.997	1	2	MS	BAJ	10/07/09 06:04	091006-4	908927
7440-22-4	Silver	0.0465	mg/kg	J	0.0399	0.199	0.2	2	MS	BAJ	10/06/09 22:28	091006-3	908927
7440-28-0	Thallium	0.266	mg/kg		0.0598	0.199	0.2	2	MS	BAJ	10/06/09 22:28	091006-3	908927
7440-62-2	Vanadium	29.9	mg/kg		1.99	9.97	1	10	MS	BAJ	10/07/09 12:50	091007-5	908927
7440-66-6	Zinc	48.7	mg/kg		0.399	1.99	5	2	MS	BAJ	10/06/09 22:28	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.514	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.513	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.593	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234016

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0177S001

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 98.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	10400	mg/kg		6.7	19.7	10	1	P	HSC	10/08/09 15:20	100809-1	909653
7440-36-0	Antimony	1.4	mg/kg		0.325	0.985	1	1	P	HSC	10/08/09 15:20	100809-1	909653
7440-38-2	Arsenic	5.48	mg/kg		0.201	1.01	0.5	2	MS	BAJ	10/06/09 22:34	091006-3	908927
7440-39-3	Barium	83.7	mg/kg		0.101	0.403	0.5	2	MS	BAJ	10/07/09 06:10	091006-4	908927
7440-41-7	Beryllium	0.632	mg/kg		0.0201	0.101	0.3	2	MS	BAJ	10/07/09 06:10	091006-4	908927
7440-42-8	Boron	3.44	mg/kg	J	0.985	4.93	5	1	P	HSC	10/08/09 15:20	100809-1	909653
7440-43-9	Cadmium	0.278	mg/kg		0.0201	0.201	0.2	2	MS	BAJ	10/06/09 22:34	091006-3	908927
7440-47-3	Chromium	17.7	mg/kg		0.201	0.604	1	2	MS	BAJ	10/07/09 06:10	091006-4	908927
7440-48-4	Cobalt	6.13	mg/kg		0.0604	0.201	0.5	2	MS	BAJ	10/07/09 06:10	091006-4	908927
7440-50-8	Copper	9.96	mg/kg		0.0665	0.201	0.2	2	MS	BAJ	10/07/09 06:10	091006-4	908927
7439-92-1	Lead	15.9	mg/kg		0.101	0.403	0.4	2	MS	BAJ	10/06/09 22:34	091006-3	908927
7439-97-6	Mercury	0.0158	mg/kg		0.00412	0.0121	0.01	1	AV	JXL1	10/08/09 11:37	100809S1-8	909789
7439-98-7	Molybdenum	0.578	mg/kg		0.0604	0.201	0.1	2	MS	BAJ	10/06/09 22:34	091006-3	908927
7440-02-0	Nickel	13.8	mg/kg		0.101	0.403	0.4	2	MS	BAJ	10/07/09 06:10	091006-4	908927
7782-49-2	Selenium	0.503	mg/kg	U	0.503	1.01	1	2	MS	BAJ	10/07/09 06:10	091006-4	908927
7440-22-4	Silver	0.0677	mg/kg	J	0.0403	0.201	0.2	2	MS	BAJ	10/06/09 22:34	091006-3	908927
7440-28-0	Thallium	0.283	mg/kg		0.0604	0.201	0.2	2	MS	BAJ	10/06/09 22:34	091006-3	908927
7440-62-2	Vanadium	31.6	mg/kg		2.01	10.1	1	10	MS	BAJ	10/07/09 12:53	091007-5	908927
7440-66-6	Zinc	50.8	mg/kg		0.403	2.01	5	2	MS	BAJ	10/06/09 22:34	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.502	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.513	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.5	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234017

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0177S002

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	13000	mg/kg		6.92	20.3	10	1	P	HSC	10/08/09 15:23	100809-1	909653
7440-36-0	Antimony	1.71	mg/kg		0.336	1.02	1	1	P	HSC	10/08/09 15:23	100809-1	909653
7440-38-2	Arsenic	5.91	mg/kg		0.216	1.08	0.5	2	MS	BAJ	10/06/09 22:40	091006-3	908927
7440-39-3	Barium	101	mg/kg		0.108	0.433	0.5	2	MS	BAJ	10/07/09 06:16	091006-4	908927
7440-41-7	Beryllium	0.756	mg/kg		0.0216	0.108	0.3	2	MS	BAJ	10/07/09 06:16	091006-4	908927
7440-42-8	Boron	2.95	mg/kg	J	1.02	5.09	5	1	P	HSC	10/08/09 15:23	100809-1	909653
7440-43-9	Cadmium	0.168	mg/kg	J	0.0216	0.216	0.2	2	MS	BAJ	10/06/09 22:40	091006-3	908927
7440-47-3	Chromium	19.3	mg/kg		0.216	0.649	1	2	MS	BAJ	10/07/09 06:16	091006-4	908927
7440-48-4	Cobalt	7.18	mg/kg		0.0649	0.216	0.5	2	MS	BAJ	10/07/09 06:16	091006-4	908927
7440-50-8	Copper	8	mg/kg		0.0714	0.216	0.2	2	MS	BAJ	10/07/09 06:16	091006-4	908927
7439-92-1	Lead	7.76	mg/kg		0.108	0.433	0.4	2	MS	BAJ	10/06/09 22:40	091006-3	908927
7439-97-6	Mercury	0.0104	mg/kg	J	0.00431	0.0127	0.01	1	AV	JXL1	10/08/09 11:39	100809S1-8	909789
7439-98-7	Molybdenum	0.536	mg/kg		0.0649	0.216	0.1	2	MS	BAJ	10/06/09 22:40	091006-3	908927
7440-02-0	Nickel	13.1	mg/kg		0.108	0.433	0.4	2	MS	BAJ	10/07/09 06:16	091006-4	908927
7782-49-2	Selenium	0.541	mg/kg	U	0.541	1.08	1	2	MS	BAJ	10/07/09 06:16	091006-4	908927
7440-22-4	Silver	0.0673	mg/kg	J	0.0433	0.216	0.2	2	MS	BAJ	10/06/09 22:40	091006-3	908927
7440-28-0	Thallium	0.295	mg/kg		0.0649	0.216	0.2	2	MS	BAJ	10/06/09 22:40	091006-3	908927
7440-62-2	Vanadium	35.9	mg/kg		2.16	10.8	1	10	MS	BAJ	10/07/09 12:56	091007-5	908927
7440-66-6	Zinc	51.3	mg/kg		0.433	2.16	5	2	MS	BAJ	10/06/09 22:40	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.518	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.551	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.531	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234018

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0180S001

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 97.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9260	mg/kg		6.83	20.1	10	1	P	HSC	10/08/09 15:26	100809-1	909653
7440-36-0	Antimony	1.26	mg/kg		0.332	1	1	1	P	HSC	10/08/09 15:26	100809-1	909653
7440-38-2	Arsenic	5.29	mg/kg		0.203	1.01	0.5	2	MS	BAJ	10/06/09 22:58	091006-3	908927
7440-39-3	Barium	79.2	mg/kg		0.101	0.405	0.5	2	MS	BAJ	10/07/09 06:34	091006-4	908927
7440-41-7	Beryllium	0.581	mg/kg		0.0203	0.101	0.3	2	MS	BAJ	10/06/09 22:58	091006-3	908927
7440-42-8	Boron	3.53	mg/kg	J	1	5.02	5	1	P	HSC	10/08/09 15:26	100809-1	909653
7440-43-9	Cadmium	0.276	mg/kg		0.0203	0.203	0.2	2	MS	BAJ	10/06/09 22:58	091006-3	908927
7440-47-3	Chromium	16.7	mg/kg		0.203	0.608	1	2	MS	BAJ	10/06/09 22:58	091006-3	908927
7440-48-4	Cobalt	5.59	mg/kg		0.0608	0.203	0.5	2	MS	BAJ	10/06/09 22:58	091006-3	908927
7440-50-8	Copper	8.86	mg/kg		0.0668	0.203	0.2	2	MS	BAJ	10/06/09 22:58	091006-3	908927
7439-92-1	Lead	13	mg/kg		0.101	0.405	0.4	2	MS	BAJ	10/06/09 22:58	091006-3	908927
7439-97-6	Mercury	0.00357	mg/kg	U	0.00357	0.0105	0.01	1	AV	JXL1	10/08/09 11:45	100809S1-8	909789
7439-98-7	Molybdenum	0.579	mg/kg		0.0608	0.203	0.1	2	MS	BAJ	10/06/09 22:58	091006-3	908927
7440-02-0	Nickel	12	mg/kg		0.101	0.405	0.4	2	MS	BAJ	10/06/09 22:58	091006-3	908927
7782-49-2	Selenium	0.506	mg/kg	U	0.506	1.01	1	2	MS	BAJ	10/07/09 06:34	091006-4	908927
7440-22-4	Silver	0.0677	mg/kg	J	0.0405	0.203	0.2	2	MS	BAJ	10/06/09 22:58	091006-3	908927
7440-28-0	Thallium	0.299	mg/kg		0.0608	0.203	0.2	2	MS	BAJ	10/06/09 22:58	091006-3	908927
7440-62-2	Vanadium	31.9	mg/kg		2.03	10.1	1	10	MS	BAJ	10/07/09 13:04	091007-5	908927
7440-66-6	Zinc	52.7	mg/kg		0.405	2.03	5	2	MS	BAJ	10/06/09 22:58	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.505	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.509	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.585	g	30	mL	10/07/09	BCD1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 238234

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 238234019

BASIS: Dry Weight

DATE COLLECTED 01-OCT-09

CLIENT ID: HZBS0180S002

LEVEL: Low

DATE RECEIVED 02-OCT-09

MATRIX: SOIL

%SOLIDS: 95.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	12000	mg/kg		7.09	20.8	10	1	P	HSC	10/08/09 15:29	100809-1	909653
7440-36-0	Antimony	1.45	mg/kg		0.344	1.04	1	1	P	HSC	10/08/09 15:29	100809-1	909653
7440-38-2	Arsenic	4.78	mg/kg		0.2	1	0.5	2	MS	BAJ	10/06/09 23:05	091006-3	908927
7440-39-3	Barium	78.7	mg/kg		0.1	0.401	0.5	2	MS	BAJ	10/07/09 06:41	091006-4	908927
7440-41-7	Beryllium	0.634	mg/kg		0.02	0.1	0.3	2	MS	BAJ	10/06/09 23:05	091006-3	908927
7440-42-8	Boron	2.94	mg/kg	J	1.04	5.21	5	1	P	HSC	10/08/09 15:29	100809-1	909653
7440-43-9	Cadmium	0.151	mg/kg	J	0.02	0.2	0.2	2	MS	BAJ	10/06/09 23:05	091006-3	908927
7440-47-3	Chromium	14.7	mg/kg		0.2	0.601	1	2	MS	BAJ	10/06/09 23:05	091006-3	908927
7440-48-4	Cobalt	4.81	mg/kg		0.0601	0.2	0.5	2	MS	BAJ	10/06/09 23:05	091006-3	908927
7440-50-8	Copper	6.72	mg/kg		0.0662	0.2	0.2	2	MS	BAJ	10/06/09 23:05	091006-3	908927
7439-92-1	Lead	7.08	mg/kg		0.1	0.401	0.4	2	MS	BAJ	10/06/09 23:05	091006-3	908927
7439-97-6	Mercury	0.0104	mg/kg	J	0.00385	0.0113	0.01	1	AV	JXL1	10/08/09 11:47	100809S1-8	909789
7439-98-7	Molybdenum	0.532	mg/kg		0.0601	0.2	0.1	2	MS	BAJ	10/06/09 23:05	091006-3	908927
7440-02-0	Nickel	9.42	mg/kg		0.1	0.401	0.4	2	MS	BAJ	10/06/09 23:05	091006-3	908927
7782-49-2	Selenium	0.501	mg/kg	U	0.501	1	1	2	MS	BAJ	10/07/09 06:41	091006-4	908927
7440-22-4	Silver	0.0678	mg/kg	J	0.0401	0.2	0.2	2	MS	BAJ	10/06/09 23:05	091006-3	908927
7440-28-0	Thallium	0.251	mg/kg		0.0601	0.2	0.2	2	MS	BAJ	10/06/09 23:05	091006-3	908927
7440-62-2	Vanadium	31.3	mg/kg		2	10	1	10	MS	BAJ	10/07/09 13:06	091007-5	908927
7440-66-6	Zinc	49.5	mg/kg		0.401	2	5	2	MS	BAJ	10/06/09 23:05	091006-3	908927

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
908927	908926	SW846 3050B	0.52	g	50	mL	10/06/09	BCD1
909653	909652	SW846 3050B	0.5	g	50	mL	10/07/09	BCD1
909789	909788	SW846 7471A Prep	0.552	g	30	mL	10/07/09	BCD1

General Chemistry

Analysis

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0082AS001
Sample ID: 238234006
Matrix: Soil
Collect Date: 01-OCT-09 08:30
Receive Date: 02-OCT-09
Collector: Client
Moisture: 3.37%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/23/09	0133	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0082AS002
Sample ID: 238234007
Matrix: Soil
Collect Date: 01-OCT-09 09:05
Receive Date: 02-OCT-09
Collector: Client
Moisture: 4.74%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/23/09	0152	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0084AS001
Sample ID: 238234008
Matrix: Soil
Collect Date: 01-OCT-09 07:50
Receive Date: 02-OCT-09
Collector: Client
Moisture: .953%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	5.00	20.0	ug/L	5	MAR110/23/09	0845	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Company : MECx, LLC
Address : 3061 West 92nd Ave
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Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0084AS002
Sample ID: 238234009
Matrix: Soil
Collect Date: 01-OCT-09 08:15
Receive Date: 02-OCT-09
Collector: Client
Moisture: 4.76%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/23/09	0311	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0123AS001
Sample ID: 238234010
Matrix: Soil
Collect Date: 01-OCT-09 13:15
Receive Date: 02-OCT-09
Collector: Client
Moisture: 1.28%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	10.0	40.0	ug/L	10	MAR110/23/09	0904	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
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Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0080AS002
Sample ID: 238234005
Matrix: Soil
Collect Date: 01-OCT-09 14:45
Receive Date: 02-OCT-09
Collector: Client
Moisture: 4.54%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/23/09	0113	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Company : MECx, LLC
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Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0080AS001
Sample ID: 238234004
Matrix: Soil
Collect Date: 01-OCT-09 14:35
Receive Date: 02-OCT-09
Collector: Client
Moisture: 2.75%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/23/09	0053	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0180S001
Sample ID: 238234018
Matrix: Soil
Collect Date: 01-OCT-09 09:30
Receive Date: 02-OCT-09
Collector: Client
Moisture: 2.24%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	10.0	40.0	ug/L	10	MAR110/23/09	1043	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0180S002
Sample ID: 238234019
Matrix: Soil
Collect Date: 01-OCT-09 10:00
Receive Date: 02-OCT-09
Collector: Client
Moisture: 4.07%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/23/09	0825	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Certificate of Analysis

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Address : 3061 West 92nd Ave
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Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0177S002
Sample ID: 238234017
Matrix: Soil
Collect Date: 01-OCT-09 15:15
Receive Date: 02-OCT-09
Collector: Client
Moisture: 10.8%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/23/09	0707	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0123AS002
Sample ID: 238234011
Matrix: Soil
Collect Date: 01-OCT-09 13:30
Receive Date: 02-OCT-09
Collector: Client
Moisture: 2.83%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/23/09	0924	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0124AS001
Sample ID: 238234012
Matrix: Soil
Collect Date: 01-OCT-09 11:00
Receive Date: 02-OCT-09
Collector: Client
Moisture: 1.87%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/23/09	0944	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Company : MECx, LLC
Address : 3061 West 92nd Ave
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Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0124AS002
Sample ID: 238234013
Matrix: Soil
Collect Date: 01-OCT-09 12:30
Receive Date: 02-OCT-09
Collector: Client
Moisture: 3.84%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/23/09	0509	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0175S001
Sample ID: 238234014
Matrix: Soil
Collect Date: 01-OCT-09 13:50
Receive Date: 02-OCT-09
Collector: Client
Moisture: 1.44%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	10.0	40.0	ug/L	10	MAR110/23/09	1003	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0175S002
Sample ID: 238234015
Matrix: Soil
Collect Date: 01-OCT-09 14:10
Receive Date: 02-OCT-09
Collector: Client
Moisture: 2.42%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	1.00	4.00	ug/L	1	MAR110/23/09	0548	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MECx, LLC
Address : 3061 West 92nd Ave
#10-D
Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA Sampling, August 2009**

Report Date: October 26, 2009

Client Sample ID: HZBS0177S001
Sample ID: 238234016
Matrix: Soil
Collect Date: 01-OCT-09 15:00
Receive Date: 02-OCT-09
Collector: Client
Moisture: 1.09%

Project: SSFL00160
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Ion Chromatography										
<i>SSFL EPA 314.0 Perchlorate (DI WET) "As Received"</i>										
Perchlorate 14797730	U	0.00	10.0	40.0	ug/L	10	MAR110/23/09	1023	914575	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

Subcontract Data

Dioxins

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 238234_1	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1090001	Date Collected: 10/01/2009 15:30	Matrix: WATER
Client Sample: 1613 Water	Date Received: 10/03/2009 09:50	
Client ID: EBQW2249		Prep Basis: As Received
Batch ID: 2753	Method: EPA Method 1613B	
Run Date: 10/10/2009 08:48	Analyst: HMP	Instrument: HRP763
Data File: b09oct09a_2-5		Dilution: 1
Prep Batch: 2632	Prep Method: SW846 3520C	
Prep Date: 07-OCT-09	Aliquot: 964.6 mL	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.79	pg/L	1.79	10.4
40321-76-4	1,2,3,7,8-PeCDD	U	1.56	pg/L	1.56	51.8
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.38	pg/L	2.38	51.8
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.61	pg/L	2.61	51.8
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.61	pg/L	2.61	51.8
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	4.73	pg/L	4.73	51.8
3268-87-9	1,2,3,4,5,6,7,8-OCDD	U	10.9	pg/L	10.9	104
51207-31-9	2,3,7,8-TCDF	U	2.16	pg/L	2.16	10.4
57117-41-6	1,2,3,7,8-PeCDF	U	1.15	pg/L	1.15	51.8
57117-31-4	2,3,4,7,8-PeCDF	U	1.19	pg/L	1.19	51.8
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.46	pg/L	1.46	51.8
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.46	pg/L	1.46	51.8
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.47	pg/L	1.47	51.8
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.53	pg/L	2.53	51.8
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	2.47	pg/L	2.47	51.8
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	4.96	pg/L	4.96	51.8
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	10.7	pg/L	10.7	104
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	1.79	pg/L	1.79	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	1.56	pg/L	1.56	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	2.38	pg/L	2.38	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	U	4.73	pg/L	4.73	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	U	2.16	pg/L	2.16	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	1.15	pg/L	1.15	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	1.46	pg/L	1.46	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	2.47	pg/L	2.47	
	TEQ WHO2005 ND=0 with EMPCs		0.00	pg/L		
	TEQ WHO2005 ND=0.5 with EMPCs		2.77	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1520	2070	pg/L	73	(25%-164%)
13C-1,2,3,7,8-PeCDD		1500	2070	pg/L	72	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1690	2070	pg/L	82	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1690	2070	pg/L	81	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1440	2070	pg/L	69	(23%-140%)
13C-OCDD		2000	4150	pg/L	48	(17%-157%)
13C-2,3,7,8-TCDF		1680	2070	pg/L	81	(25%-164%)
13C-1,2,3,7,8-PeCDF		1710	2070	pg/L	83	(24%-185%)
13C-2,3,4,7,8-PeCDF		1590	2070	pg/L	77	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1640	2070	pg/L	79	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1670	2070	pg/L	81	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1690	2070	pg/L	82	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1450	2070	pg/L	70	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1440	2070	pg/L	70	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 238234_1	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1090001	Date Collected: 10/01/2009 15:30	Matrix: WATER
Client Sample: 1613 Water	Date Received: 10/03/2009 09:50	
Client ID: EBQW2249		Prep Basis: As Received
Batch ID: 2753	Method: EPA Method 1613B	
Run Date: 10/10/2009 08:48	Analyst: HMP	Instrument: HRP763
Data File: b09oct09a_2-5		Dilution: 1
Prep Batch: 2632	Prep Method: SW846 3520C	
Prep Date: 07-OCT-09	Aliquot: 964.6 mL	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			1330	2070	pg/L	64 (26%-138%)
37Cl-2,3,7,8-TCDD			152	207	pg/L	73 (35%-197%)

Comments:

U Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086001	Date Collected: 10/01/2009 13:50	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 2
Client ID: HZBS0175S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 09:32	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-6		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.16 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.215	pg/g	0.215	0.839
40321-76-4	1,2,3,7,8-PeCDD	U	.18	pg/g	0.180	4.20
39227-28-6	1,2,3,4,7,8-HxCDD	U	.242	pg/g	0.242	4.20
57653-85-7	1,2,3,6,7,8-HxCDD	U	.27	pg/g	0.270	4.20
19408-74-3	1,2,3,7,8,9-HxCDD	U	.269	pg/g	0.269	4.20
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	2.42	pg/g	0.504	4.20
3268-87-9	1,2,3,4,5,6,7,8-OCDD		18.9	pg/g	1.54	8.39
51207-31-9	2,3,7,8-TCDF	U	.306	pg/g	0.306	0.839
57117-41-6	1,2,3,7,8-PeCDF	JK	0.306	pg/g	0.183	4.20
57117-31-4	2,3,4,7,8-PeCDF	U	.19	pg/g	0.190	4.20
70648-26-9	1,2,3,4,7,8-HxCDF	U	.161	pg/g	0.161	4.20
57117-44-9	1,2,3,6,7,8-HxCDF	U	.18	pg/g	0.180	4.20
60851-34-5	2,3,4,6,7,8-HxCDF	U	.188	pg/g	0.188	4.20
72918-21-9	1,2,3,7,8,9-HxCDF	U	.274	pg/g	0.274	4.20
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.547	pg/g	0.243	4.20
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.465	pg/g	0.465	4.20
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	1.16	pg/g	1.16	8.39
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.215	pg/g	0.215	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.18	pg/g	0.180	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		0.819	pg/g	0.242	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		6.33	pg/g	0.504	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	U	.306	pg/g	0.306	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		1.28	pg/g	0.116	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		0.846	pg/g	0.161	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		1.33	pg/g	0.243	
	TEQ WHO2005 ND=0 with EMPCs		0.0445	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.183	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		153	168	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDD		135	168	pg/g	81	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		158	168	pg/g	94	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		160	168	pg/g	95	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		136	168	pg/g	81	(23%-140%)
13C-OCDD		197	336	pg/g	59	(17%-157%)
13C-2,3,7,8-TCDF		152	168	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDF		144	168	pg/g	86	(24%-185%)
13C-2,3,4,7,8-PeCDF		144	168	pg/g	86	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		175	168	pg/g	104	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		153	168	pg/g	91	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		162	168	pg/g	96	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		150	168	pg/g	89	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		153	168	pg/g	91	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086001	Date Collected: 10/01/2009 13:50	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 2
Client ID: HZBS0175S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 09:32	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-6		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.16 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			131	168	pg/g	78 (26%-138%)
37Cl-2,3,7,8-TCDD			14.0	16.8	pg/g	84 (35%-197%)

Comments:

- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086001	Date Collected: 10/01/2009 13:50	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 2
Client ID: HZBS0175S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 20:50	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-17		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.16 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.341	pg/g	0.165	0.839

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086002	Date Collected: 10/01/2009 14:10	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 4.7
Client ID: HZBS0175S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 10:20	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-7		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.31 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.181	pg/g	0.181	0.853
40321-76-4	1,2,3,7,8-PeCDD	U	.171	pg/g	0.171	4.26
39227-28-6	1,2,3,4,7,8-HxCDD	U	.246	pg/g	0.246	4.26
57653-85-7	1,2,3,6,7,8-HxCDD	U	.264	pg/g	0.264	4.26
19408-74-3	1,2,3,7,8,9-HxCDD	U	.268	pg/g	0.268	4.26
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	.443	pg/g	0.443	4.26
3268-87-9	1,2,3,4,5,6,7,8-OCDD	J	2.55	pg/g	1.03	8.53
51207-31-9	2,3,7,8-TCDF	J	0.307	pg/g	0.225	0.853
57117-41-6	1,2,3,7,8-PeCDF	U	.124	pg/g	0.124	4.26
57117-31-4	2,3,4,7,8-PeCDF	U	.117	pg/g	0.117	4.26
70648-26-9	1,2,3,4,7,8-HxCDF	U	.156	pg/g	0.156	4.26
57117-44-9	1,2,3,6,7,8-HxCDF	U	.155	pg/g	0.155	4.26
60851-34-5	2,3,4,6,7,8-HxCDF	U	.159	pg/g	0.159	4.26
72918-21-9	1,2,3,7,8,9-HxCDF	U	.242	pg/g	0.242	4.26
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.198	pg/g	0.198	4.26
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.401	pg/g	0.401	4.26
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	.941	pg/g	0.941	8.53
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.181	pg/g	0.181	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.171	pg/g	0.171	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.246	pg/g	0.246	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		0.631	pg/g	0.443	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.307	pg/g	0.225	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		0.121	pg/g	0.105	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	.155	pg/g	0.155	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	.198	pg/g	0.198	
	TEQ WHO2005 ND=0 with EMPCs		0.0315	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.0512	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		153	171	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDD		149	171	pg/g	87	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		163	171	pg/g	96	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		159	171	pg/g	93	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		136	171	pg/g	80	(23%-140%)
13C-OCDD		205	341	pg/g	60	(17%-157%)
13C-2,3,7,8-TCDF		153	171	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDF		150	171	pg/g	88	(24%-185%)
13C-2,3,4,7,8-PeCDF		153	171	pg/g	90	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		164	171	pg/g	96	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		156	171	pg/g	92	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		162	171	pg/g	95	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		154	171	pg/g	90	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		153	171	pg/g	90	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086002	Date Collected: 10/01/2009 14:10	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 4.7
Client ID: HZBS0175S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 10:20	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-7		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.31 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		136	171	pg/g	80	(26%-138%)
37Cl-2,3,7,8-TCDD		14.0	17.1	pg/g	82	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
J Value is estimated
U Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086002	Date Collected: 10/01/2009 14:10	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 4.7
Client ID: HZBS0175S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 21:12	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-18		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.31 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.278	pg/g	0.129	0.853

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

Page 1 of 2

SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086003	Date Collected: 10/01/2009 15:00	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 1.5
Client ID: HZBS0177S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 11:08	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-8		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.43 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.199	pg/g	0.199	0.817
40321-76-4	1,2,3,7,8-PeCDD	JK	0.268	pg/g	0.206	4.08
39227-28-6	1,2,3,4,7,8-HxCDD	U	.284	pg/g	0.284	4.08
57653-85-7	1,2,3,6,7,8-HxCDD	U	.314	pg/g	0.314	4.08
19408-74-3	1,2,3,7,8,9-HxCDD	U	.314	pg/g	0.314	4.08
35822-46-9	1,2,3,4,6,7,8-HpCDD		4.39	pg/g	0.608	4.08
3268-87-9	1,2,3,4,5,6,7,8-OCDD		37.3	pg/g	1.24	8.17
51207-31-9	2,3,7,8-TCDF	JK	0.472	pg/g	0.337	0.817
57117-41-6	1,2,3,7,8-PeCDF	JK	0.343	pg/g	0.250	4.08
57117-31-4	2,3,4,7,8-PeCDF	JK	0.291	pg/g	0.247	4.08
70648-26-9	1,2,3,4,7,8-HxCDF	U	.168	pg/g	0.168	4.08
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.201	pg/g	0.190	4.08
60851-34-5	2,3,4,6,7,8-HxCDF	U	.203	pg/g	0.203	4.08
72918-21-9	1,2,3,7,8,9-HxCDF	U	.291	pg/g	0.291	4.08
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.874	pg/g	0.265	4.08
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.485	pg/g	0.485	4.08
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	2.00	pg/g	1.00	8.17
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		0.361	pg/g	0.199	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs		0.536	pg/g	0.206	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		1.65	pg/g	0.284	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		11.2	pg/g	0.608	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	1.68	pg/g	0.337	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		2.54	pg/g	0.116	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		2.00	pg/g	0.168	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		1.65	pg/g	0.265	
	TEQ WHO2005 ND=0 with EMPCs		0.497	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.527	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		150	163	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDD		137	163	pg/g	84	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		158	163	pg/g	97	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		157	163	pg/g	96	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		132	163	pg/g	81	(23%-140%)
13C-OCDD		212	327	pg/g	65	(17%-157%)
13C-2,3,7,8-TCDF		148	163	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDF		141	163	pg/g	86	(24%-185%)
13C-2,3,4,7,8-PeCDF		150	163	pg/g	92	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		175	163	pg/g	107	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		154	163	pg/g	94	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		161	163	pg/g	98	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		149	163	pg/g	91	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		144	163	pg/g	88	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086003	Date Collected: 10/01/2009 15:00	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 1.5
Client ID: HZBS0177S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 11:08	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-8		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.43 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		130	163	pg/g	80	(26%-138%)
37Cl-2,3,7,8-TCDD		13.3	16.3	pg/g	81	(35%-197%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086003	Date Collected: 10/01/2009 15:00	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 1.5
Client ID: HZBS0177S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 21:34	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-19		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 12.43 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	JK	0.485	pg/g	0.145	0.817

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086004	Date Collected: 10/01/2009 15:15	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 4.7
Client ID: HZBS0177S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 11:56	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-9		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 14.36 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.173	pg/g	0.173	0.731
40321-76-4	1,2,3,7,8-PeCDD	U	.138	pg/g	0.138	3.66
39227-28-6	1,2,3,4,7,8-HxCDD	U	.209	pg/g	0.209	3.66
57653-85-7	1,2,3,6,7,8-HxCDD	U	.235	pg/g	0.235	3.66
19408-74-3	1,2,3,7,8,9-HxCDD	U	.232	pg/g	0.232	3.66
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	.449	pg/g	0.449	3.66
3268-87-9	1,2,3,4,5,6,7,8-OCDD	JK	1.13	pg/g	0.947	7.31
51207-31-9	2,3,7,8-TCDF	JK	0.284	pg/g	0.192	0.731
57117-41-6	1,2,3,7,8-PeCDF	U	.105	pg/g	0.105	3.66
57117-31-4	2,3,4,7,8-PeCDF	U	.102	pg/g	0.102	3.66
70648-26-9	1,2,3,4,7,8-HxCDF	U	.143	pg/g	0.143	3.66
57117-44-9	1,2,3,6,7,8-HxCDF	U	.148	pg/g	0.148	3.66
60851-34-5	2,3,4,6,7,8-HxCDF	U	.148	pg/g	0.148	3.66
72918-21-9	1,2,3,7,8,9-HxCDF	U	.224	pg/g	0.224	3.66
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.192	pg/g	0.192	3.66
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.367	pg/g	0.367	3.66
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	.943	pg/g	0.943	7.31
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.173	pg/g	0.173	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.138	pg/g	0.138	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.209	pg/g	0.209	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	U	.449	pg/g	0.449	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.526	pg/g	0.192	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	.102	pg/g	0.102	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	.143	pg/g	0.143	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	.192	pg/g	0.192	
	TEQ WHO2005 ND=0 with EMPCs		0.0287	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.0456	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		140	146	pg/g	96	(25%-164%)
13C-1,2,3,7,8-PeCDD		137	146	pg/g	94	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		145	146	pg/g	99	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		142	146	pg/g	97	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		124	146	pg/g	85	(23%-140%)
13C-OCDD		192	292	pg/g	66	(17%-157%)
13C-2,3,7,8-TCDF		138	146	pg/g	94	(25%-164%)
13C-1,2,3,7,8-PeCDF		129	146	pg/g	88	(24%-185%)
13C-2,3,4,7,8-PeCDF		136	146	pg/g	93	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		149	146	pg/g	102	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		137	146	pg/g	94	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		147	146	pg/g	101	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		138	146	pg/g	95	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		135	146	pg/g	92	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086004	Date Collected: 10/01/2009 15:15	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 4.7
Client ID: HZBS0177S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 11:56	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-9		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 14.36 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			120	146	pg/g	82
37Cl-2,3,7,8-TCDD			12.7	14.6	pg/g	87

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086004	Date Collected: 10/01/2009 15:15	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 4.7
Client ID: HZBS0177S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 21:55	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-20		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 14.36 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	JK	0.328	pg/g	0.104	0.731

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086005	Date Collected: 10/01/2009 09:30	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 3
Client ID: HZBS0180S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 12:44	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-10		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.49 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.208	pg/g	0.208	0.897
40321-76-4	1,2,3,7,8-PeCDD	U	.201	pg/g	0.201	4.48
39227-28-6	1,2,3,4,7,8-HxCDD	U	.267	pg/g	0.267	4.48
57653-85-7	1,2,3,6,7,8-HxCDD	U	.305	pg/g	0.305	4.48
19408-74-3	1,2,3,7,8,9-HxCDD	U	.3	pg/g	0.300	4.48
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	1.93	pg/g	0.544	4.48
3268-87-9	1,2,3,4,5,6,7,8-OCDD		13.8	pg/g	1.09	8.97
51207-31-9	2,3,7,8-TCDF	J	0.335	pg/g	0.305	0.897
57117-41-6	1,2,3,7,8-PeCDF	U	.159	pg/g	0.159	4.48
57117-31-4	2,3,4,7,8-PeCDF	JK	0.213	pg/g	0.152	4.48
70648-26-9	1,2,3,4,7,8-HxCDF	U	.161	pg/g	0.161	4.48
57117-44-9	1,2,3,6,7,8-HxCDF	U	.181	pg/g	0.181	4.48
60851-34-5	2,3,4,6,7,8-HxCDF	U	.179	pg/g	0.179	4.48
72918-21-9	1,2,3,7,8,9-HxCDF	U	.267	pg/g	0.267	4.48
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.431	pg/g	0.228	4.48
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.484	pg/g	0.484	4.48
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	1.24	pg/g	1.24	8.97
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.208	pg/g	0.208	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.201	pg/g	0.201	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		0.773	pg/g	0.267	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		5.24	pg/g	0.544	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.335	pg/g	0.305	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		1.24	pg/g	0.109	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		0.353	pg/g	0.161	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		0.431	pg/g	0.228	
	TEQ WHO2005 ND=0 with EMPCs		0.125	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.154	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		167	179	pg/g	93	(25%-164%)
13C-1,2,3,7,8-PeCDD		151	179	pg/g	84	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		174	179	pg/g	97	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		163	179	pg/g	91	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		126	179	pg/g	71	(23%-140%)
13C-OCDD		198	359	pg/g	55	(17%-157%)
13C-2,3,7,8-TCDF		160	179	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		167	179	pg/g	93	(24%-185%)
13C-2,3,4,7,8-PeCDF		163	179	pg/g	91	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		178	179	pg/g	99	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		154	179	pg/g	86	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		168	179	pg/g	94	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		158	179	pg/g	88	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		150	179	pg/g	84	(28%-143%)

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086005	Date Collected: 10/01/2009 09:30	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 3
Client ID: HZBS0180S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 12:44	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-10		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.49 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			127	179	pg/g	71
37Cl-2,3,7,8-TCDD			15.3	17.9	pg/g	85
						(26%-138%)
						(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086005	Date Collected: 10/01/2009 09:30	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 3
Client ID: HZBS0180S001		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 22:17	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-21		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.49 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.386	pg/g	0.137	0.897

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086006	Date Collected: 10/01/2009 10:00	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 4.6
Client ID: HZBS0180S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 13:32	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-11		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.92 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.211	pg/g	0.211	0.880
40321-76-4	1,2,3,7,8-PeCDD	U	.19	pg/g	0.190	4.40
39227-28-6	1,2,3,4,7,8-HxCDD	U	.264	pg/g	0.264	4.40
57653-85-7	1,2,3,6,7,8-HxCDD	U	.299	pg/g	0.299	4.40
19408-74-3	1,2,3,7,8,9-HxCDD	U	.296	pg/g	0.296	4.40
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	.561	pg/g	0.561	4.40
3268-87-9	1,2,3,4,5,6,7,8-OCDD	U	1.22	pg/g	1.22	8.80
51207-31-9	2,3,7,8-TCDF	JK	0.236	pg/g	0.225	0.880
57117-41-6	1,2,3,7,8-PeCDF	U	.131	pg/g	0.131	4.40
57117-31-4	2,3,4,7,8-PeCDF	U	.143	pg/g	0.143	4.40
70648-26-9	1,2,3,4,7,8-HxCDF	U	.175	pg/g	0.175	4.40
57117-44-9	1,2,3,6,7,8-HxCDF	U	.171	pg/g	0.171	4.40
60851-34-5	2,3,4,6,7,8-HxCDF	U	.183	pg/g	0.183	4.40
72918-21-9	1,2,3,7,8,9-HxCDF	U	.266	pg/g	0.266	4.40
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.253	pg/g	0.253	4.40
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.51	pg/g	0.510	4.40
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	1.03	pg/g	1.03	8.80
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.211	pg/g	0.211	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.19	pg/g	0.190	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.264	pg/g	0.264	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	U	.561	pg/g	0.561	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.236	pg/g	0.225	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	.131	pg/g	0.131	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	.171	pg/g	0.171	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	.253	pg/g	0.253	
	TEQ WHO2005 ND=0 with EMPCs		0.0236	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.0238	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		163	176	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDD		153	176	pg/g	87	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		167	176	pg/g	95	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		166	176	pg/g	94	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		134	176	pg/g	76	(23%-140%)
13C-OCDD		213	352	pg/g	61	(17%-157%)
13C-2,3,7,8-TCDF		159	176	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDF		154	176	pg/g	87	(24%-185%)
13C-2,3,4,7,8-PeCDF		159	176	pg/g	90	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		173	176	pg/g	98	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		156	176	pg/g	89	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		167	176	pg/g	95	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		157	176	pg/g	89	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		153	176	pg/g	87	(28%-143%)

**Hi-Res Dioxins/Furans
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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086006	Date Collected: 10/01/2009 10:00	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 4.6
Client ID: HZBS0180S002		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 13:32	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-11		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.92 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF			134	176	pg/g	76
37Cl-2,3,7,8-TCDD			15.0	17.6	pg/g	85
						(26%-138%)
						(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
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Sample Summary**

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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086007	Date Collected: 10/01/2009 10:18	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 2.4
Client ID: HVBF33AS01		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 14:20	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-12		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.46 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.181	pg/g	0.181	0.894
40321-76-4	1,2,3,7,8-PeCDD	U	.193	pg/g	0.193	4.47
39227-28-6	1,2,3,4,7,8-HxCDD	U	.299	pg/g	0.299	4.47
57653-85-7	1,2,3,6,7,8-HxCDD	U	.297	pg/g	0.297	4.47
19408-74-3	1,2,3,7,8,9-HxCDD	U	.313	pg/g	0.313	4.47
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	2.19	pg/g	0.515	4.47
3268-87-9	1,2,3,4,5,6,7,8-OCDD		15.8	pg/g	1.15	8.94
51207-31-9	2,3,7,8-TCDF	J	0.356	pg/g	0.306	0.894
57117-41-6	1,2,3,7,8-PeCDF	J	0.184	pg/g	0.174	4.47
57117-31-4	2,3,4,7,8-PeCDF	U	.176	pg/g	0.176	4.47
70648-26-9	1,2,3,4,7,8-HxCDF	U	.188	pg/g	0.188	4.47
57117-44-9	1,2,3,6,7,8-HxCDF	U	.193	pg/g	0.193	4.47
60851-34-5	2,3,4,6,7,8-HxCDF	U	.202	pg/g	0.202	4.47
72918-21-9	1,2,3,7,8,9-HxCDF	U	.299	pg/g	0.299	4.47
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	0.715	pg/g	0.247	4.47
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.469	pg/g	0.469	4.47
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	1.01	pg/g	1.01	8.94
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		0.249	pg/g	0.181	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.193	pg/g	0.193	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		0.960	pg/g	0.297	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		5.76	pg/g	0.515	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.356	pg/g	0.306	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		1.01	pg/g	0.116	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		0.937	pg/g	0.188	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		1.23	pg/g	0.247	
	TEQ WHO2005 ND=0 with EMPCs		0.0749	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.116	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		170	179	pg/g	95	(25%-164%)
13C-1,2,3,7,8-PeCDD		147	179	pg/g	82	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		170	179	pg/g	95	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		176	179	pg/g	99	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		144	179	pg/g	81	(23%-140%)
13C-OCDD		230	358	pg/g	64	(17%-157%)
13C-2,3,7,8-TCDF		164	179	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDF		156	179	pg/g	87	(24%-185%)
13C-2,3,4,7,8-PeCDF		158	179	pg/g	88	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		184	179	pg/g	103	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		165	179	pg/g	92	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		172	179	pg/g	96	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		162	179	pg/g	91	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		163	179	pg/g	91	(28%-143%)

**Hi-Res Dioxins/Furans
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Sample Summary**

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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086007	Date Collected: 10/01/2009 10:18	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 2.4
Client ID: HVBF33AS01		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 14:20	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-12		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.46 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		146	179	pg/g	82	(26%-138%)
37Cl-2,3,7,8-TCDD		15.4	17.9	pg/g	86	(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086007	Date Collected: 10/01/2009 10:18	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 2.4
Client ID: HVBF33AS01		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 22:38	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-22		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.46 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.334	pg/g	0.146	0.894

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
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Sample Summary**

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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086008	Date Collected: 10/01/2009 10:40	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 10.9
Client ID: HVBF33AS02		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 15:08	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-13		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.62 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.237	pg/g	0.237	0.965
40321-76-4	1,2,3,7,8-PeCDD	U	.17	pg/g	0.170	4.83
39227-28-6	1,2,3,4,7,8-HxCDD	U	.251	pg/g	0.251	4.83
57653-85-7	1,2,3,6,7,8-HxCDD	U	.286	pg/g	0.286	4.83
19408-74-3	1,2,3,7,8,9-HxCDD	U	.282	pg/g	0.282	4.83
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	.519	pg/g	0.519	4.83
3268-87-9	1,2,3,4,5,6,7,8-OCDD	U	1.17	pg/g	1.17	9.65
51207-31-9	2,3,7,8-TCDF	J	0.278	pg/g	0.253	0.965
57117-41-6	1,2,3,7,8-PeCDF	U	.14	pg/g	0.140	4.83
57117-31-4	2,3,4,7,8-PeCDF	U	.143	pg/g	0.143	4.83
70648-26-9	1,2,3,4,7,8-HxCDF	U	.181	pg/g	0.181	4.83
57117-44-9	1,2,3,6,7,8-HxCDF	U	.181	pg/g	0.181	4.83
60851-34-5	2,3,4,6,7,8-HxCDF	U	.195	pg/g	0.195	4.83
72918-21-9	1,2,3,7,8,9-HxCDF	U	.284	pg/g	0.284	4.83
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.276	pg/g	0.276	4.83
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.531	pg/g	0.531	4.83
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	1.05	pg/g	1.05	9.65
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	.237	pg/g	0.237	
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	.17	pg/g	0.170	
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	.251	pg/g	0.251	
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	U	.519	pg/g	0.519	
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.600	pg/g	0.253	
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	.14	pg/g	0.140	
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	.181	pg/g	0.181	
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	.276	pg/g	0.276	
	TEQ WHO2005 ND=0 with EMPCs		0.0278	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.028	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		172	193	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDD		168	193	pg/g	87	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		185	193	pg/g	96	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		184	193	pg/g	95	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		155	193	pg/g	80	(23%-140%)
13C-OCDD		243	386	pg/g	63	(17%-157%)
13C-2,3,7,8-TCDF		172	193	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		165	193	pg/g	85	(24%-185%)
13C-2,3,4,7,8-PeCDF		174	193	pg/g	90	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		188	193	pg/g	98	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		180	193	pg/g	93	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		187	193	pg/g	97	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		173	193	pg/g	90	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		172	193	pg/g	89	(28%-143%)

**Hi-Res Dioxins/Furans
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Sample Summary**

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SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086008	Date Collected: 10/01/2009 10:40	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 10.9
Client ID: HVBF33AS02		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/06/2009 15:08	Analyst: HMP	Instrument: HRP763
Data File: b05oct09a_2-13		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.62 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-1,2,3,4,7,8,9-HpCDF		151	193	pg/g	78	(26%-138%)
37Cl-2,3,7,8-TCDD		15.8	19.3	pg/g	82	(35%-197%)

Comments:**B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.**J** Value is estimated**K** Estimated Maximum Possible Concentration**U** Analyte was analyzed for , but not detected above the specified detection limit.

**Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary**

SDG Number: 1086	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1086008	Date Collected: 10/01/2009 10:40	Matrix: SOIL
Client Sample: 1613 Soil	Date Received: 10/03/2009 09:40	%Moisture: 10.9
Client ID: HVBF33AS02		Prep Basis: Dry Weight
Batch ID: 2552	Method: EPA Method 1613B	
Run Date: 10/07/2009 23:00	Analyst: HMP	Instrument: HRP763
Data File: b07oct09a-23		Dilution: 1
Prep Batch: 2452	Prep Method: SW846 3540C	
Prep Date: 04-OCT-09	Aliquot: 11.62 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	JK	0.359	pg/g	0.116	0.965

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
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Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- J** Value is estimated
- K** Estimated Maximum Possible Concentration
- U** Analyte was analyzed for , but not detected above the specified detection limit.