



February 25, 2010

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

Re: SSFL
Project Number: 1891614.05452
Project Name: ISRA HV Waste Characterization
Work Order: 233955
SDG: 233955

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 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: 1891614.05452
Chain of Custody:
Enclosures

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact

The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873

Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak

Analysis Turnaround Time

Calendar (C) or Work Days (W) C

TAT if different from Below

2 weeks
 1 week
 2 days
 1 day

FAX: **ISRA IN WASTE CHARACTERIZATION**

Project Name: **ISRA Cell Waste Characterization**

Site: Happy Valley

P O # 7KSSISRA

TSC0119

Date: **7-1-09**

Carrier: **CUBIER**

Test America Laboratories, Inc.

COC No:

Job No.

1891614. 05.9152

SDG No.

Sample Identification

- 15NC00045001
- 15NC00035001
- 15NC00025001
- 15NC00015001
- 15NC00055001
- 15NC00065001
- 15NC00075001
- 15NC00085001

Sample Specific Notes:

ISRA - HNS...

CAM 17 Metals

Press

9-1-09 CAR

7-1-09 CAR

7-1-09 CAR

Preservation Used: (1=Ice) 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments: **Run STL/C (WET) / TCLP if TTLC results ≥ 10x STL/C / 20x TCLP thresholds**

Relinquished by:

Relinquished by:

Relinquished by:

[Signatures]

Company: **MWH**
Company: **Test America**
Company: **TA Env.**

Received by: **[Signature]**
Received by: **[Signature]**
Received by: **R.M. Stelling**

Company: **Test America**
Company: **TA**
Company: **Geo**

Date/Time: **15057109**
Date/Time: **7-1-09/18:30**
Date/Time: **7/3/09**
Date/Time: **7/22/09 900**

277

(270)

IRVINE

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

IS0501Z-1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

COC No. _____ of _____ (O/S)

Job No. _____

SDG No. _____

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873

Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak

Date: 7/1/09
Carrier: Computer

Analysis Turnaround Time
Calendar (C) or Work Days (W) C

TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sample Name: ISRA - HV Substrate Characterization

Site: Happy Valley

PO # 7KSSISRA

Sample Identification

ISWC0033 J001

ISWC0034 S001

ISWC0035 S001

ISWC0036 S001

ISWC0037 S001

ISWC0038 S001

ISWC0039 S001

ISWC0040 S001

7/1/09
8V

Sample Date

Time

Sample Type

Matrix

of Cont.

0853

0904

0922

0935

0953

1001

1016

1028

ss.sme

scs1

1

1

1

Preservation Used: 1= Ice; 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison-B Unknown

Special Instructions/QC Requirements & Comments: Run STL (WET) / TCLP if TTLC results \geq 10x STL / 20x TCLP thresholds

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Month(s)

Relinquished by: _____

Relinquished by: _____

Relinquished by: _____

Company: MWH

Company: TestAmerica

Company: TA/Inv.

Date/Time: 7/1/09 1605

Date/Time: 7-1-09 18:30

Date/Time: 7/1/09

Received by: _____

Received by: _____

Received by: R.M. Stelling

Company: TestAmerica

Company: ZAI

Company: GeI

Date/Time: 7-1-09 15:00

Date/Time: 7/1/09 08:00

Date/Time: 7/22/09 9:00

Company: TestAmerica

Company: ZAI

Company: GeI

Date/Time: 7-1-09 15:00

Date/Time: 7/1/09 08:00

Date/Time: 7/22/09 9:00

Company: TestAmerica

Company: ZAI

Company: GeI

Date/Time: 7-1-09 15:00

Date/Time: 7/1/09 08:00

Date/Time: 7/22/09 9:00

Company: TestAmerica

Company: ZAI

Company: GeI

Date/Time: 7-1-09 15:00

Date/Time: 7/1/09 08:00

Date/Time: 7/22/09 9:00

Company: TestAmerica

Company: ZAI

Company: GeI

Date/Time: 7-1-09 15:00

Date/Time: 7/1/09 08:00

Date/Time: 7/22/09 9:00

Company: TestAmerica

Company: ZAI

Company: GeI

Date/Time: 7-1-09 15:00

Date/Time: 7/1/09 08:00

Date/Time: 7/22/09 9:00

Company: TestAmerica

Company: ZAI

Company: GeI

Date/Time: 7-1-09 15:00

Date/Time: 7/1/09 08:00

Date/Time: 7/22/09 9:00

Company: TestAmerica

Company: ZAI

Company: GeI

Date/Time: 7-1-09 15:00

Date/Time: 7/1/09 08:00

Date/Time: 7/22/09 9:00

Company: TestAmerica

Company: ZAI

Company: GeI

277

7/1/09

17:00

IRVINE
17461 Dertian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

ISG0122

TestAmerica Laboratories, Inc.
COC No: _____
Job No. 18914110100
SDG No. _____

Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak
Carrier: *Bruler*

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873
Analysis Turnaround Time
Calendar (C) or Work Days (W) C

Client Contact
The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304
Phone _____
FAX _____
Project Name: ISRA HV Work Characterization
Site: Happy Valley - Canyon
PO # 7KSSISRA

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Entered Sample
ISCW0042 J001	7/1/09	1111	5.5 sleeve soil		1	X
ISCW0041 J001	"	1123	↓		1	X
ISCW0043 S001	"	1134	↓		1	X
ISCW0044 S001	"	1143	↓		1	X

Sample Specific Notes:
CYN 1
"
"
"

7/1/09
5.5

Preservation Used: Ice; 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Unknown Reagent-B
Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP if TTLC results ≥ 10x STLC / 20x TCLP thresholds
 Return To Client Disposal By Lab Archive For _____ Month(s)

Requisitioned by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>[Signature]</i>	MWH	7/1/09 1505	<i>[Signature]</i>	TestAmerica	7/1/09 1505
<i>[Signature]</i>	TestAmerica	7-1-09 4:30	<i>[Signature]</i>	TAI	7/1/09 4:30
<i>[Signature]</i>	TAI Inc.	7/2/09 17:00	<i>[Signature]</i>	GeI	7/22/09 9:00

277

IRVINE

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

IS60123

COC No. _____ of _____

Job No. _____

SDG No. _____

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873

Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak

Client Contact
The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304

Date: 7/1/09
Carrier: Delta Air

Analysis Turnaround Time
Calendar (C) or Work Days (W) C

TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Project Name: ISRA HV Wask Characterization
Site: Happy Valley
P O # 7KSSISRA

Sample Identification

Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
7/1/09	1304	ss stone soil	soil	1
	1306			1
	1305			1
	1334			1

Sample Specific Notes:
1304
1306
1305
1334

Entered Sample CAM 17 Metals

Preservation Used: (1=Jog, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other)

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant

Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP if TTLC results ≥ 10x STLC / 20x TCLP thresholds

Sample Disposal (A fee may be assessed if samples are retained long > than 1 month)
 Return To Client Disposal By Lab Archive For _____ Month(s)

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Company: MWM
Date/Time: 7/1/09 15:05

Company: Test America
Date/Time: 7/1/09 18:30

Company: [Signature]
Date/Time: 7/1/09

Company: [Signature]
Date/Time: 7/1/09

Company: [Signature]
Date/Time: 7/1/09

Company: Post America
Date/Time: 7/1/09 15:05

Company: ZAC
Date/Time: 7/1/09 18:30

Company: [Signature]
Date/Time: 7/1/09

Company: [Signature]
Date/Time: 7/1/09

Company: [Signature]
Date/Time: 7/1/09

IRVINE

17461 Derian Ave

Suite 100

Irvine, CA 92614

phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact

The Boeing Company SSFL

5800 Woolsey Canyon Road

Canoga Park, CA 91304

Phone

FAX

Project Name: **ISRA HV WASTE CHARACTERIZATION**

Site: Happy Valley

PO # 7KSSISRA

Project Manager: Tom Venable

Tel/Fax: 818-466-8779 / 818-466-4873

Analysis Turnaround Time

Calendar (C) or Work Days (W) C

TAT: if different from Below

2 weeks

1 week

2 days

1 day

Site Contact: Shelby Valenzuela

Lab Contact: Joe Doak

Date: **7-1-09**

Carrier: **COURIER**

ES00117

TestAmerica Laboratories, Inc.

COC No:

1 of 1 COCs

Job No.

1891614.05546

SDC No.

Sample Identification

ISWC00205001

ISWC00195001

ISWC00235001

ISWC00185001

ISWC00225001

ISWC00215001

ISWC00175001

ISWC00245001

Matrix Sample
CAM 17 Metals

Sample Specific Notes:

ISRA - HV - 2%

ISRA

NR

7-1-09

CAR

7-1-09

MR

Preservation Used: (1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other)

Possible Hazard Identification

Non-Hazard

Flammable

Skin Irritant

Poison B

Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For 6 Months

Relinquished by:

Relinquished by:

Relinquished by:

Company: MWH

Company: Test America

Company: TA/IRV

Date/Time: 1505/1/09

Date/Time: 7-1-09/18:30

Date/Time: 7/2/09

Received by: Shelby Valenzuela

Received by: Joe Doak

Received by: R. N. Stelling

Date/Time: 7-1-09/15:30

Date/Time: 7/1/09/15:30

Date/Time: 7/22/09 9:00

Company: Test America

Company: TA

Company: Gel

207

IRVINE
17461 Deegan Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

TestAmerica
THE LEADER IN SERVING THE ENVIRONMENT

Chain of Custody Record

IS 60120

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873
Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak

Client Contact
The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304

Project Name: ISRA HV Waste Characterization
Site: Happy Valley
P O # 7KSSISRA

Analysis Turnaround Time
Calendar (C) or Work Days (W) W
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample
ISWC0009 5001	7/1/09	0900	S	alluv	1	X
ISWC0010 5001	7/1/09	0930	S	alluv	1	X
ISWC0011 5001	7/1/09	0940	S	alluv	1	X
ISWC0012 5001	7/1/09	0945	S	alluv	1	X
ISWC0013 5001	7/1/09	0940	S	alluv	1	X
ISWC0014 5001	7/1/09	0915	S	alluv	1	X
ISWC0015 5001	7/1/09	1010	S	alluv	1	X
ISWC0016 5001	7/1/09	0950	S	alluv	1	X

Sample Specific Notes:
ISRA - HV5 - 3

Project: ISRA HV Waste Characterization
Date: 7/1/09
Carrier: computer

Job No. 1591614, 054572
SDC# No.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For 6 Months

Relinquished by: [Signature]
Relinquished by: [Signature]
Relinquished by: [Signature]

Received by: [Signature]
Received by: [Signature]
Received by: [Signature]

Company: MWH
Company: TestAmerica
Company: TA - Inv

Date/Time: 1505/1/09
Date/Time: 7-1-09 18:30
Date/Time: 7/2/09 17:00

Company: TestAmerica
Company: TA
Company: Gel

Date/Time: 7-1-09/15:05
Date/Time: 7/1/09 11:11
Date/Time: 7/22/09 9:00

2-7C

SP 7/1/09

IRVINE
17461 Deegan Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

ISRA-HWS-2A
IS60118

Chain of Custody Record

IRVINE
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

TestAmerica Laboratories, Inc.
COC 140: _____ of _____ COCS
Job No. 15916341.05452
SDG No. _____

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873
Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak
Carrier: Coumier
Date: 7/1/09

Analysis Turnaround Time
Calendar (C) or Work Days (W) C
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes	
ISWCO025 S001 (0.0.8')	7/1/09	12:10	S	Soil	1	CAM 17 Metals X X X X X X X X X X 0.0.8' 0.2.0.7'	
ISWCO026 S001 (0.2-0.7')	7/1/09	12:20	S	Soil	1		
ISWCO027 S001 (0.2-0.7')	7/1/09	12:30	S	Soil	1		
ISWCO028 S001 (0.4-0.9')	7/1/09	13:35	S	Soil	1		
ISWCO029 S001 (1.3-1.8')	7/1/09	12:00	S	Soil	1		
ISWCO030 S001 (0.6-1.1')	7/1/09	13:00	S	Soil	1		
ISWCO031 S001 (0.5-1.0')	7/1/09	12:50	S	Soil	1		
ISWCO032 S001 (0.7-1.2')	7/1/09	12:40	S	Soil	1		

Preservation Used: (1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other)
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poisonous Unknown
 Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP if TTLC results ≥ 10x STLC / 20x TCLP thresholds

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Month(s)

Relinquished by: *[Signature]* Date/Time: 7/1/09 15:00
 Relinquished by: *[Signature]* Date/Time: 7/1/09 18:30
 Relinquished by: *[Signature]* Date/Time: 7/22/09 17:00

Company: MWH
 Company: Test America
 Company: TA/Env.

Received by: *[Signature]* Date/Time: 7/1/09 15:00
 Received by: *[Signature]* Date/Time: 7/1/09 18:30
 Received by: *[Signature]* Date/Time: 7/22/09 17:00

Company: Test America
 Company: ZAF
 Company: Geel



SAMPLE RECEIPT & REVIEW FORM

Client: <u>SSF1</u>		SDG/ARCOC/Work Order: <u>233955</u>	
Received By: <u>RMS</u>		Date Received: <u>7/22/09</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>40cpm</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"/>			ice bags blue ice dry ice none other (describe) <u>4c</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:

Fx: 7977 8177 6914

Subject: Radiochemistry Samples

From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com>

Date: Tue, 28 Jul 2009 11:03:21 -0600

To: Jackie Trudell <jacqueline.trudell@gel.com>

Hi Jackie,

Please analyze the following samples on a 10 day TAT. The data will not need to go to the portal, and we would like the EDD in "Phil's format."

ISWC0001S001
ISWC0002S001
ISWC0003S001
ISWC0004S001
ISWC0005S001
ISWC0006S001
ISWC0009S001
ISWC0010S001
ISWC0011S001
ISWC0012S001
ISWC0013S001
ISWC0014S001
ISWC0015S001
ISWC0016S001
ISWC0019S001
ISWC0020S001
ISWC0023S001
ISWC0024S001
ISWC0028S001
ISWC0041S001
ISWC0042S001
ISWC0043S001
ISWC0044S001
ISWC0045S001
ISWC0046S001
ISWC0047S001
ISWC0048S001

Here is the list of rads we want reported:

Sr-90
Na-2
K-40
Mn-54
Co-60
Cs-134
Cs-137
Eu-152

Eu-154
Th-228
Th-232
U-235
U-238
Am-241
H-3

Thanks,
Sarah



MWH

BUILDING A BETTER WORLD

Sarah Von Raesfeld
Environmental Chemist

MWH Americas, Inc.
2121 N. California Blvd.
Suite 600
Walnut Creek, California 94596

Telephone: 925 627 4500
Direct Line: 925 627 4654
Facsimile: 925 627 4501

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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0004S001	Project:	SSFL00153
Sample ID:	233955001	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 08:53		
Receive Date:	22-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0361	+/-0.0653	0.111		pCi/g		MXR107/29/09	1528	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0444	0.0571		pCi/g					
Cesium-137 10045973	U	0.0181	+/-0.0229	0.0416	0.050	pCi/g					
Cobalt-60 10198400	U	0.000528	+/-0.0241	0.0411		pCi/g					
Europium-152 14683239	U	-0.0132	+/-0.0564	0.0948		pCi/g					
Europium-154 15585101	U	0.0704	+/-0.0724	0.131		pCi/g					
Manganese-54 13966319	U	0.011	+/-0.0238	0.0417		pCi/g					
Potassium-40 13966002		24.7	+/-2.30	0.331		pCi/g					
Sodium-22 13966320	U	0.0228	+/-0.0261	0.0472		pCi/g					
Thorium-228 14274829		1.44	+/-0.151	0.054		pCi/g					
Thorium-232 7440291		1.50	+/-0.250	0.119		pCi/g					
Uranium-235 15117961	U	0.028	+/-0.122	0.208		pCi/g					
Uranium-238 7440611		1.82	+/-0.942	0.946		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0247	+/-0.027	0.0446	0.050	pCi/g		JXR1 08/06/09	0755	889147	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.56	+/-0.784	1.39	1.00	pCi/g		EXK2 07/31/09	2224	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
--------	-------------	---------	------	------	------------

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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0004S001
Sample ID: 233955001
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			69.0	(25%–125%)

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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0003S001	Project:	SSFL00153
Sample ID:	233955002	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01–JUL–09 09:16		
Receive Date:	22–JUL–09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium–241 14596–10–2	UI	0.00	+/-0.045	0.0779		pCi/g		MXR107/29/09	1635	889135	1
Cesium–134 13967709	UI	0.00	+/-0.0428	0.0722		pCi/g					
Cesium–137 10045973	UI	0.00	+/-0.0561	0.052	0.050	pCi/g					
Cobalt–60 10198400	U	0.014	+/-0.0322	0.0561		pCi/g					
Europium–152 14683239	U	0.00222	+/-0.0761	0.119		pCi/g					
Europium–154 15585101	U	-0.0349	+/-0.0906	0.148		pCi/g					
Manganese–54 13966319	U	0.0153	+/-0.0312	0.0562		pCi/g					
Potassium–40 13966002		23.3	+/-1.84	0.327		pCi/g					
Sodium–22 13966320	U	-0.0136	+/-0.0326	0.0531		pCi/g					
Thorium–228 14274829		1.27	+/-0.129	0.0626		pCi/g					
Thorium–232 7440291		1.19	+/-0.234	0.178		pCi/g					
Uranium–235 15117961	U	0.025	+/-0.135	0.240		pCi/g					
Uranium–238 7440611		0.983	+/-0.619	0.744		pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium–90 10098972	U	0.000558	+/-0.0236	0.0473	0.050	pCi/g		JXR1 08/06/09	0755	889147	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028–17–8	U	0.342	+/-0.468	0.798	1.00	pCi/g		EXK2 08/02/09	2103	889149	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Certificate of Analysis

Company : MECx, LLC
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0003S001
Sample ID: 233955002
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			71.2	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0002S001
Sample ID: 233955003
Matrix: Soil
Collect Date: 01-JUL-09 09:37
Receive Date: 22-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0763	+/-0.0943	0.159		pCi/g		MXR	107/29/09	1635	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0445	0.0544		pCi/g						
Cesium-137 10045973	U	0.00772	+/-0.021	0.0372	0.050	pCi/g						
Cobalt-60 10198400	U	0.0124	+/-0.0206	0.0371		pCi/g						
Europium-152 14683239	U	-0.0263	+/-0.0906	0.0929		pCi/g						
Europium-154 15585101	U	-0.000749	+/-0.0669	0.115		pCi/g						
Manganese-54 13966319	U	0.00706	+/-0.0216	0.0375		pCi/g						
Potassium-40 13966002		24.2	+/-2.03	0.240		pCi/g						
Sodium-22 13966320	U	-0.00381	+/-0.0242	0.0413		pCi/g						
Thorium-228 14274829		1.41	+/-0.119	0.0551		pCi/g						
Thorium-232 7440291		1.64	+/-0.251	0.124		pCi/g						
Uranium-235 15117961	U	0.0664	+/-0.127	0.226		pCi/g						
Uranium-238 7440611	U	1.11	+/-1.12	1.28		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0154	+/-0.0261	0.0449	0.050	pCi/g		JXR	1 08/06/09	0756	889147	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.723	+/-0.768	1.37	1.00	pCi/g		EXK	2 08/01/09	0029	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0002S001	Project:	SSFL00153
Sample ID:	233955003	Client ID:	SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			64.7	(25%–125%)

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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0001S001	Project:	SSFL00153
Sample ID:	233955004	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 09:55		
Receive Date:	22-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0438	+/-0.0418	0.0699		pCi/g		MXR	10/29/09	1639	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0634	0.0746		pCi/g						
Cesium-137 10045973	U	-0.0102	+/-0.0289	0.0501	0.050	pCi/g						
Cobalt-60 10198400	U	0.031	+/-0.0293	0.0551		pCi/g						
Europium-152 14683239	U	-0.079	+/-0.0811	0.109		pCi/g						
Europium-154 15585101	U	-0.138	+/-0.101	0.156		pCi/g						
Manganese-54 13966319	U	0.0266	+/-0.0315	0.0571		pCi/g						
Potassium-40 13966002		24.7	+/-2.41	0.419		pCi/g						
Sodium-22 13966320	U	-0.0494	+/-0.0361	0.0564		pCi/g						
Thorium-228 14274829		1.38	+/-0.153	0.0622		pCi/g						
Thorium-232 7440291		1.40	+/-0.254	0.165		pCi/g						
Uranium-235 15117961	U	0.131	+/-0.126	0.227		pCi/g						
Uranium-238 7440611		0.783	+/-0.508	0.657		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0237	+/-0.0284	0.0479	0.050	pCi/g		JXR	08/06/09	0756	889147	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.271	+/-0.381	0.757	1.00	pCi/g		EXK	08/02/09	2308	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0001S001
Sample ID: 233955004
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			64.7	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0005S001
Sample ID: 233955005
Matrix: Soil
Collect Date: 01-JUL-09 10:04
Receive Date: 22-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0356	+/-0.088	0.135		pCi/g		MXR	107/29/09	1525	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0483	0.0672		pCi/g						
Cesium-137 10045973	U	0.0396	+/-0.0286	0.0507	0.050	pCi/g						
Cobalt-60 10198400	U	-0.0154	+/-0.0309	0.0489		pCi/g						
Europium-152 14683239	U	-0.0286	+/-0.071	0.112		pCi/g						
Europium-154 15585101	U	-0.0516	+/-0.0888	0.140		pCi/g						
Manganese-54 13966319	UI	0.00	+/-0.041	0.0474		pCi/g						
Potassium-40 13966002		22.1	+/-2.02	0.338		pCi/g						
Sodium-22 13966320	U	-0.0186	+/-0.032	0.0505		pCi/g						
Thorium-228 14274829		1.48	+/-0.145	0.0615		pCi/g						
Thorium-232 7440291		1.71	+/-0.319	0.144		pCi/g						
Uranium-235 15117961	U	0.0804	+/-0.153	0.244		pCi/g						
Uranium-238 7440611		1.44	+/-0.967	1.20		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0217	+/-0.025	0.0421	0.050	pCi/g		JXR	1 08/06/09	0756	889147	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.883	+/-0.745	1.34	1.00	pCi/g		EXK	2 08/01/09	0234	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0005S001
Sample ID: 233955005
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			67.9	(25%–125%)

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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0006S001
Sample ID: 233955006
Matrix: Soil
Collect Date: 01-JUL-09 10:29
Receive Date: 22-JUL-09
Collector: Client
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0882	+/-0.120	0.187		pCi/g		MXR	107/29/09	1526	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0558	0.071		pCi/g						
Cesium-137 10045973		0.0524	+/-0.0418	0.0459	0.050	pCi/g						
Cobalt-60 10198400	U	0.00362	+/-0.0326	0.0548		pCi/g						
Europium-152 14683239	U	-0.0816	+/-0.0871	0.121		pCi/g						
Europium-154 15585101	U	-0.149	+/-0.111	0.161		pCi/g						
Manganese-54 13966319	U	-0.0162	+/-0.0316	0.0521		pCi/g						
Potassium-40 13966002		21.4	+/-2.22	0.514		pCi/g						
Sodium-22 13966320	U	-0.0535	+/-0.0398	0.058		pCi/g						
Thorium-228 14274829		1.29	+/-0.123	0.0676		pCi/g						
Thorium-232 7440291		1.30	+/-0.294	0.158		pCi/g						
Uranium-235 15117961	U	0.0383	+/-0.168	0.267		pCi/g						
Uranium-238 7440611	U	0.454	+/-1.14	1.56		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972		0.0415	+/-0.0231	0.0322	0.050	pCi/g		JXR	108/11/09	0806	890377	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.946	+/-0.768	1.39	1.00	pCi/g		EXK	208/01/09	0336	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Certificate of Analysis

Company : MECx, LLC
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0006S001 Project: SSFL00153
Sample ID: 233955006 Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			77.6	(25%–125%)

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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0042S001	Project:	SSFL00153
Sample ID:	233955017	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 11:11		
Receive Date:	22-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium-241 14596-10-2	U	-0.0522	+/-0.108	0.201		pCi/g		MXR107/29/09	1806	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0519	0.0602		pCi/g					
Cesium-137 10045973	U	-0.0218	+/-0.025	0.038	0.050	pCi/g					
Cobalt-60 10198400	U	0.0157	+/-0.0238	0.0424		pCi/g					
Europium-152 14683239	U	-0.0414	+/-0.0725	0.110		pCi/g					
Europium-154 15585101	U	-0.0719	+/-0.0747	0.115		pCi/g					
Manganese-54 13966319	U	0.015	+/-0.0252	0.0457		pCi/g					
Potassium-40 13966002		19.8	+/-1.61	0.279		pCi/g					
Sodium-22 13966320	U	-0.0267	+/-0.0268	0.0413		pCi/g					
Thorium-228 14274829		1.25	+/-0.112	0.0605		pCi/g					
Thorium-232 7440291		1.38	+/-0.232	0.141		pCi/g					
Uranium-235 15117961	U	-0.105	+/-0.141	0.235		pCi/g					
Uranium-238 7440611	U	0.680	+/-0.927	1.72		pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium-90 10098972	U	0.00868	+/-0.0256	0.0444	0.050	pCi/g		JXR1 08/10/09	1107	890377	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028-17-8	U	-0.728	+/-0.773	1.38	1.00	pCi/g		EXK2 08/01/09	0439	889149	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0042S001 Project: SSFL00153
Sample ID: 233955017 Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			DRS1	07/28/09	1843	889001				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			84.1	(25%–125%)

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Certificate of Analysis

Company : MECx, LLC
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0041S001
Sample ID: 233955018
Matrix: Soil
Collect Date: 01-JUL-09 11:23
Receive Date: 22-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	-0.00475	+/-0.0946	0.170		pCi/g		MXR	107/29/09	1809	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0358	0.0429		pCi/g						
Cesium-137 10045973	U	0.000885	+/-0.0165	0.0292	0.050	pCi/g						
Cobalt-60 10198400	U	0.00524	+/-0.0171	0.0296		pCi/g						
Europium-152 14683239	U	0.0195	+/-0.0496	0.0761		pCi/g						
Europium-154 15585101	U	-0.0433	+/-0.0496	0.0794		pCi/g						
Manganese-54 13966319	U	0.010	+/-0.0171	0.0302		pCi/g						
Potassium-40 13966002		21.6	+/-1.77	0.209		pCi/g						
Sodium-22 13966320	U	-0.0166	+/-0.0179	0.0287		pCi/g						
Thorium-228 14274829		1.34	+/-0.109	0.0497		pCi/g						
Thorium-232 7440291		1.49	+/-0.237	0.0932		pCi/g						
Uranium-235 15117961	U	0.066	+/-0.110	0.189		pCi/g						
Uranium-238 7440611	U	0.829	+/-0.885	1.35		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0359	+/-0.0232	0.0373	0.050	pCi/g		JXR	1 08/07/09	2038	890377	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.155	+/-0.408	0.723	1.00	pCi/g		EXK	2 08/03/09	0318	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0041S001 Project: SSFL00153
Sample ID: 233955018 Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			DRS1	07/28/09	1843	889001				

The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	EML HASL 300, 4.5.2.3		
2	EPA 905.0 Modified		
3	EPA 906.0 Modified		

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			78.7	(25%–125%)

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Certificate of Analysis

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0043S001
Sample ID: 233955019
Matrix: Soil
Collect Date: 01-JUL-09 11:34
Receive Date: 22-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0281	+/-0.0606	0.103		pCi/g			MXR	107/29/09	1930	889135 1
Cesium-134 13967709	UI	0.00	+/-0.0346	0.0536		pCi/g						
Cesium-137 10045973	U	0.000188	+/-0.0206	0.0362	0.050	pCi/g						
Cobalt-60 10198400	U	0.0138	+/-0.0216	0.0388		pCi/g						
Europium-152 14683239	U	-0.0291	+/-0.058	0.0919		pCi/g						
Europium-154 15585101	U	-0.0608	+/-0.0684	0.109		pCi/g						
Manganese-54 13966319	U	-0.0138	+/-0.0222	0.0364		pCi/g						
Potassium-40 13966002		20.3	+/-1.96	0.326		pCi/g						
Sodium-22 13966320	U	-0.0241	+/-0.0247	0.0391		pCi/g						
Thorium-228 14274829		1.25	+/-0.133	0.0534		pCi/g						
Thorium-232 7440291		1.34	+/-0.233	0.123		pCi/g						
Uranium-235 15117961	U	-0.00919	+/-0.119	0.202		pCi/g						
Uranium-238 7440611		1.68	+/-0.899	0.894		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.00492	+/-0.022	0.0381	0.050	pCi/g		JXR	1	08/07/09	2052	890377 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-1.08	+/-0.761	1.38	1.00	pCi/g		EXK	2	08/01/09	0643	889149 3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0043S001	Project:	SSFL00153
Sample ID:	233955019	Client ID:	SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			88.4	(25%–125%)

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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0044S001	Project:	SSFL00153
Sample ID:	233955020	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 11:43		
Receive Date:	22-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium-241 14596-10-2	U	0.0134	+/-0.0753	0.126		pCi/g		MXR107/29/09	1931	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0355	0.054		pCi/g					
Cesium-137 10045973	U	-0.00186	+/-0.0209	0.0356	0.050	pCi/g					
Cobalt-60 10198400	U	0.0121	+/-0.0217	0.0381		pCi/g					
Europium-152 14683239	U	-0.0552	+/-0.0597	0.0886		pCi/g					
Europium-154 15585101	U	0.0229	+/-0.0645	0.112		pCi/g					
Manganese-54 13966319	U	-0.00993	+/-0.0212	0.0363		pCi/g					
Potassium-40 13966002		21.4	+/-1.66	0.260		pCi/g					
Sodium-22 13966320	U	0.00749	+/-0.0232	0.0401		pCi/g					
Thorium-228 14274829		1.32	+/-0.120	0.0518		pCi/g					
Thorium-232 7440291		1.39	+/-0.212	0.122		pCi/g					
Uranium-235 15117961	U	0.154	+/-0.158	0.205		pCi/g					
Uranium-238 7440611		1.85	+/-0.920	1.10		pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium-90 10098972	U	-0.00133	+/-0.0222	0.0398	0.050	pCi/g		JXR1 08/10/09	1107	890377	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028-17-8	U	-0.386	+/-0.786	1.39	1.00	pCi/g		EXK2 08/01/09	0746	889149	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Certificate of Analysis

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Contact : Ms. Kim Schultz
Project : **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0044S001
Sample ID: 233955020

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			79.8	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0045S001
Sample ID: 233955021
Matrix: Soil
Collect Date: 01-JUL-09 13:04
Receive Date: 22-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0854	+/-0.101	0.172		pCi/g		MXR	107/29/09	1931	889135	1
Cesium-134 13967709	U	0.0523	+/-0.0339	0.0524		pCi/g						
Cesium-137 10045973	U	0.0312	+/-0.0345	0.0401	0.050	pCi/g						
Cobalt-60 10198400	U	-0.00392	+/-0.0227	0.0376		pCi/g						
Europium-152 14683239	U	-0.00271	+/-0.0605	0.0983		pCi/g						
Europium-154 15585101	U	-0.0234	+/-0.0721	0.119		pCi/g						
Manganese-54 13966319	U	0.00143	+/-0.0229	0.0403		pCi/g						
Potassium-40 13966002		25.6	+/-2.34	0.328		pCi/g						
Sodium-22 13966320	U	-0.00943	+/-0.0259	0.0426		pCi/g						
Thorium-228 14274829		1.28	+/-0.106	0.0551		pCi/g						
Thorium-232 7440291		1.56	+/-0.243	0.123		pCi/g						
Uranium-235 15117961	U	-0.0406	+/-0.129	0.222		pCi/g						
Uranium-238 7440611		2.47	+/-1.24	1.41		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	-0.01	+/-0.0267	0.0481	0.050	pCi/g		JXR	1 08/06/09	0757	889147	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.509	+/-0.772	1.37	1.00	pCi/g		EXK	2 08/01/09	0848	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact : Ms. Kim Schultz
Project : **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0045S001 Project: SSFL00153
Sample ID: 233955021 Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			63.6	(25%–125%)

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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0048S001	Project:	SSFL00153
Sample ID:	233955022	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 13:16		
Receive Date:	22-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0194	+/-0.0848	0.129		pCi/g		MXR	107/29/09	1527	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0488	0.0711		pCi/g						
Cesium-137 10045973	U	0.0182	+/-0.0286	0.051	0.050	pCi/g						
Cobalt-60 10198400	U	-0.000664	+/-0.0293	0.0479		pCi/g						
Europium-152 14683239	U	-0.0197	+/-0.0718	0.115		pCi/g						
Europium-154 15585101	U	-0.0324	+/-0.0979	0.156		pCi/g						
Manganese-54 13966319	U	0.0283	+/-0.0294	0.0529		pCi/g						
Potassium-40 13966002		22.2	+/-2.16	0.473		pCi/g						
Sodium-22 13966320	U	-0.00901	+/-0.0349	0.056		pCi/g						
Thorium-228 14274829		1.51	+/-0.142	0.0623		pCi/g						
Thorium-232 7440291		1.27	+/-0.257	0.162		pCi/g						
Uranium-235 15117961	U	-0.059	+/-0.152	0.234		pCi/g						
Uranium-238 7440611	U	0.811	+/-1.00	1.11		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	-0.000557	+/-0.0173	0.0334	0.050	pCi/g		JXR	08/09/09	1045	889147	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.435	+/-0.779	1.38	1.00	pCi/g		EXK	08/01/09	1104	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Company : MECx, LLC
 Address : 3061 West 92nd Ave
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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0048S001 Project: SSFL00153
 Sample ID: 233955022 Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			DRS1	07/28/09	1843	889001				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			60.4	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0047S001
Sample ID: 233955023
Matrix: Soil
Collect Date: 01-JUL-09 13:25
Receive Date: 22-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0723	+/-0.0713	0.121		pCi/g		MXR	10/29/09	1932	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0388	0.0511		pCi/g						
Cesium-137 10045973	U	-0.00259	+/-0.0197	0.0346	0.050	pCi/g						
Cobalt-60 10198400	U	0.0177	+/-0.0219	0.0387		pCi/g						
Europium-152 14683239	U	0.0212	+/-0.0514	0.0859		pCi/g						
Europium-154 15585101	U	0.068	+/-0.0651	0.117		pCi/g						
Manganese-54 13966319	U	0.00601	+/-0.0216	0.038		pCi/g						
Potassium-40 13966002		25.0	+/-1.84	0.278		pCi/g						
Sodium-22 13966320	U	0.0181	+/-0.0239	0.042		pCi/g						
Thorium-228 14274829		1.49	+/-0.164	0.051		pCi/g						
Thorium-232 7440291		1.64	+/-0.260	0.120		pCi/g						
Uranium-235 15117961	U	0.0917	+/-0.121	0.209		pCi/g						
Uranium-238 7440611	U	0.823	+/-0.929	1.06		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0365	+/-0.0283	0.0462	0.050	pCi/g		JXR	08/06/09	0759	889147	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-1.12	+/-0.777	1.41	1.00	pCi/g		EXK	08/01/09	1207	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0047S001
Sample ID: 233955023
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			62.5	(25%–125%)

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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0046S001
Sample ID: 233955024
Matrix: Soil
Collect Date: 01–JUL–09 13:34
Receive Date: 22–JUL–09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium–241 14596–10–2	U	0.00218	+/-0.0854	0.139		pCi/g		MXR	107/29/09	2255	889135	1
Cesium–134 13967709	UI	0.00	+/-0.0342	0.042		pCi/g						
Cesium–137 10045973		0.102	+/-0.0279	0.0283	0.050	pCi/g						
Cobalt–60 10198400	U	-0.00415	+/-0.0169	0.0286		pCi/g						
Europium–152 14683239	U	-0.0289	+/-0.0467	0.0697		pCi/g						
Europium–154 15585101	U	-0.0498	+/-0.0523	0.0853		pCi/g						
Manganese–54 13966319	U	-0.00594	+/-0.0172	0.0291		pCi/g						
Potassium–40 13966002		22.5	+/-2.02	0.226		pCi/g						
Sodium–22 13966320	U	-0.0159	+/-0.0187	0.0308		pCi/g						
Thorium–228 14274829		1.44	+/-0.115	0.0406		pCi/g						
Thorium–232 7440291		1.47	+/-0.231	0.0894		pCi/g						
Uranium–235 15117961	U	0.0735	+/-0.0942	0.165		pCi/g						
Uranium–238 7440611		1.21	+/-0.830	1.10		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium–90 10098972		0.0375	+/-0.0217	0.032	0.050	pCi/g		JXR	108/09/09	1045	889147	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028–17–8	U	-0.428	+/-0.782	1.38	1.00	pCi/g		EXK	208/01/09	1309	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0046S001 Project: SSFL00153
Sample ID: 233955024 Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			DRS1	07/28/09	1843	889001				

The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	EML HASL 300, 4.5.2.3		
2	EPA 905.0 Modified		
3	EPA 906.0 Modified		

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			64.7	(25%–125%)

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Certificate of Analysis

Company : MECx, LLC
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 #10–D
 Westminster, Colorado 80031
 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0020S001	Project:	SSFL00153
Sample ID:	233955025	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01–JUL–09 12:02		
Receive Date:	22–JUL–09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium–241 14596–10–2	U	0.024	+/-0.0997	0.169		pCi/g		MXR1	07/29/09	2256	889135	1
Cesium–134 13967709	UI	0.00	+/-0.030	0.0419		pCi/g						
Cesium–137 10045973		0.0421	+/-0.0202	0.0242	0.050	pCi/g						
Cobalt–60 10198400	U	0.00346	+/-0.019	0.0289		pCi/g						
Europium–152 14683239	U	0.00197	+/-0.0418	0.0652		pCi/g						
Europium–154 15585101	U	0.00688	+/-0.0494	0.0857		pCi/g						
Manganese–54 13966319	U	0.0196	+/-0.0188	0.0271		pCi/g						
Potassium–40 13966002		22.7	+/-2.04	0.208		pCi/g						
Sodium–22 13966320	U	-0.00351	+/-0.0181	0.0309		pCi/g						
Thorium–228 14274829		1.68	+/-0.135	0.0396		pCi/g						
Thorium–232 7440291		1.62	+/-0.235	0.0879		pCi/g						
Uranium–235 15117961	U	0.0771	+/-0.0929	0.155		pCi/g						
Uranium–238 7440611	U	1.28	+/-1.05	1.28		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium–90 10098972	U	-0.0182	+/-0.0257	0.0469	0.050	pCi/g		JXR1	08/06/09	0759	889147	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028–17–8	U	-0.994	+/-0.750	1.36	1.00	pCi/g		EXK2	08/01/09	1411	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact : Ms. Kim Schultz
Project : **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0020S001
Sample ID: 233955025
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			59.3	(25%–125%)

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 Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0019S001	Project:	SSFL00153
Sample ID:	233955026	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 12:26		
Receive Date:	22-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.032	+/-0.0285	0.0492		pCi/g		MXR	10/29/09	2256	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0351	0.0503		pCi/g						
Cesium-137 10045973	U	0.000785	+/-0.0212	0.0362	0.050	pCi/g						
Cobalt-60 10198400	U	0.0189	+/-0.0207	0.0369		pCi/g						
Europium-152 14683239	U	-0.039	+/-0.0587	0.0825		pCi/g						
Europium-154 15585101	U	-0.0265	+/-0.0662	0.112		pCi/g						
Manganese-54 13966319	U	0.0254	+/-0.0221	0.0396		pCi/g						
Potassium-40 13966002		23.1	+/-1.60	0.292		pCi/g						
Sodium-22 13966320	U	-0.00966	+/-0.0238	0.0402		pCi/g						
Thorium-228 14274829		1.48	+/-0.142	0.0432		pCi/g						
Thorium-232 7440291		1.40	+/-0.226	0.126		pCi/g						
Uranium-235 15117961	UI	0.00	+/-0.152	0.160		pCi/g						
Uranium-238 7440611		1.06	+/-0.533	0.476		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	-0.00142	+/-0.0243	0.0454	0.050	pCi/g		JXR	08/06/09	0758	889147	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.343	+/-0.788	1.39	1.00	pCi/g		EXK	08/01/09	1514	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Certificate of Analysis

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0023S001
Sample ID: 233955027
Matrix: Soil
Collect Date: 01-JUL-09 12:38
Receive Date: 22-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0277	+/-0.0587	0.0903		pCi/g		MXR1	07/29/09	2257	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0331	0.0384		pCi/g						
Cesium-137 10045973		0.0408	+/-0.0219	0.027	0.050	pCi/g						
Cobalt-60 10198400	U	0.012	+/-0.0157	0.0276		pCi/g						
Europium-152 14683239	U	-0.0179	+/-0.050	0.0662		pCi/g						
Europium-154 15585101	U	-0.00506	+/-0.0521	0.0877		pCi/g						
Manganese-54 13966319	UI	0.00	+/-0.0216	0.026		pCi/g						
Potassium-40 13966002		23.8	+/-1.84	0.221		pCi/g						
Sodium-22 13966320	U	-0.00216	+/-0.0188	0.0316		pCi/g						
Thorium-228 14274829		1.42	+/-0.112	0.0381		pCi/g						
Thorium-232 7440291		1.51	+/-0.211	0.0899		pCi/g						
Uranium-235 15117961	U	0.00	+/-0.0954	0.156		pCi/g						
Uranium-238 7440611	U	0.779	+/-0.701	0.780		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0371	+/-0.0289	0.0475	0.050	pCi/g		JXR1	08/06/09	0759	889147	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.776	+/-0.776	1.39	1.00	pCi/g		EXK2	08/01/09	1616	889149	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0023S001
Sample ID: 233955027
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			59.3	(25%–125%)

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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0024S001	Project:	SSFL00153
Sample ID:	233955032	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 13:33		
Receive Date:	22-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0735	+/-0.131	0.218		pCi/g		MXR107/29/09	2257	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0294	0.0433		pCi/g					
Cesium-137 10045973	U	-0.00101	+/-0.0189	0.0321	0.050	pCi/g					
Cobalt-60 10198400	U	-0.0233	+/-0.0177	0.027		pCi/g					
Europium-152 14683239	U	-0.00356	+/-0.061	0.0825		pCi/g					
Europium-154 15585101	U	-0.0345	+/-0.0634	0.0922		pCi/g					
Manganese-54 13966319	U	0.00466	+/-0.0184	0.0325		pCi/g					
Potassium-40 13966002		22.4	+/-1.85	0.247		pCi/g					
Sodium-22 13966320	U	-0.0127	+/-0.0228	0.0332		pCi/g					
Thorium-228 14274829		1.65	+/-0.146	0.0491		pCi/g					
Thorium-232 7440291		1.56	+/-0.217	0.0987		pCi/g					
Uranium-235 15117961	U	0.165	+/-0.133	0.186		pCi/g					
Uranium-238 7440611	U	0.810	+/-1.67	1.65		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0245	+/-0.0284	0.0478	0.050	pCi/g		JXR1 08/06/09	2131	889148	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	0.052	+/-0.444	0.768	1.00	pCi/g		EXK2 07/31/09	1923	889151	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0009S001
Sample ID: 233955033
Matrix: Soil
Collect Date: 01-JUL-09 09:00
Receive Date: 22-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.041	+/-0.0327	0.0551		pCi/g		MXR107/29/09	2258	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0421	0.0528		pCi/g					
Cesium-137 10045973		0.0865	+/-0.037	0.0343	0.050	pCi/g					
Cobalt-60 10198400	U	0.0124	+/-0.0215	0.0373		pCi/g					
Europium-152 14683239	U	-0.0203	+/-0.0518	0.0795		pCi/g					
Europium-154 15585101	U	-0.0306	+/-0.0663	0.109		pCi/g					
Manganese-54 13966319	U	0.0294	+/-0.0205	0.0368		pCi/g					
Potassium-40 13966002		23.7	+/-1.66	0.283		pCi/g					
Sodium-22 13966320	U	-0.0108	+/-0.0239	0.0393		pCi/g					
Thorium-228 14274829		1.33	+/-0.125	0.0451		pCi/g					
Thorium-232 7440291		1.33	+/-0.215	0.117		pCi/g					
Uranium-235 15117961	U	0.0737	+/-0.104	0.179		pCi/g					
Uranium-238 7440611		0.821	+/-0.430	0.531		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.027	+/-0.028	0.0468	0.050	pCi/g		JXR1 08/06/09	0854	889148	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	0.387	+/-0.460	0.774	1.00	pCi/g		EXK2 07/31/09	2127	889151	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0009S001
Sample ID: 233955033
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			DRS1	07/28/09	1843	889001			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			71.2	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0010S001
Sample ID: 233955034
Matrix: Soil
Collect Date: 01-JUL-09 09:30
Receive Date: 22-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0682	+/-0.075	0.121		pCi/g		MXR	10/29/09	2258	889135	1
Cesium-134 13967709	UI	0.00	+/-0.0314	0.0396		pCi/g						
Cesium-137 10045973		0.0868	+/-0.0252	0.0295	0.050	pCi/g						
Cobalt-60 10198400	U	-0.0049	+/-0.0173	0.029		pCi/g						
Europium-152 14683239	U	-0.0543	+/-0.0569	0.0729		pCi/g						
Europium-154 15585101	U	0.0191	+/-0.0552	0.0959		pCi/g						
Manganese-54 13966319	U	-0.0135	+/-0.018	0.0293		pCi/g						
Potassium-40 13966002		26.1	+/-2.05	0.232		pCi/g						
Sodium-22 13966320	U	0.00835	+/-0.0199	0.0347		pCi/g						
Thorium-228 14274829		1.49	+/-0.117	0.0415		pCi/g						
Thorium-232 7440291		1.69	+/-0.227	0.0965		pCi/g						
Uranium-235 15117961	U	0.121	+/-0.132	0.171		pCi/g						
Uranium-238 7440611		1.17	+/-0.819	0.983		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	-0.00173	+/-0.0272	0.0477	0.050	pCi/g		JXR	10/06/09	0854	889148	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.124	+/-0.445	0.765	1.00	pCi/g		EXK	20/31/09	2330	889151	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0010S001
Sample ID: 233955034
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			DRS1	07/28/09	1843	889001				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			58.2	(25%–125%)

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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0011S001	Project:	SSFL00153
Sample ID:	233955035	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01–JUL–09 10:00		
Receive Date:	22–JUL–09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium–241 14596–10–2	U	0.117	+/-0.150	0.256		pCi/g		MXR107/29/09	1626	889136	1
Cesium–134 13967709	UI	0.00	+/-0.0453	0.0591		pCi/g					
Cesium–137 10045973		0.0654	+/-0.0389	0.0423	0.050	pCi/g					
Cobalt–60 10198400	U	-0.0224	+/-0.0252	0.0397		pCi/g					
Europium–152 14683239	U	-0.0164	+/-0.0584	0.098		pCi/g					
Europium–154 15585101	U	0.0217	+/-0.0849	0.149		pCi/g					
Manganese–54 13966319	U	0.00773	+/-0.0237	0.0415		pCi/g					
Potassium–40 13966002		25.5	+/-2.12	0.343		pCi/g					
Sodium–22 13966320	U	0.013	+/-0.0304	0.0538		pCi/g					
Thorium–228 14274829		1.50	+/-0.139	0.0558		pCi/g					
Thorium–232 7440291		1.40	+/-0.250	0.132		pCi/g					
Uranium–235 15117961	U	0.0514	+/-0.129	0.228		pCi/g					
Uranium–238 7440611	U	1.32	+/-1.41	1.87		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium–90 10098972	U	0.0237	+/-0.0279	0.0469	0.050	pCi/g		JXR1 08/06/09	0855	889148	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028–17–8	U	0.00	+/-0.437	0.760	1.00	pCi/g		EXK2 08/01/09	0134	889151	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Certificate of Analysis

Company : MECx, LLC
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0011S001
Sample ID: 233955035
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			DRS1	07/28/09	1847	889002			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			61.5	(25%–125%)

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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0012S001
Sample ID: 233955036
Matrix: Soil
Collect Date: 01-JUL-09 09:20
Receive Date: 22-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0361	+/-0.0433	0.0728		pCi/g		MXR	10/29/09	1627	889136	1
Cesium-134 13967709	U	0.0628	+/-0.0442	0.069		pCi/g						
Cesium-137 10045973	U	0.0342	+/-0.0414	0.0482	0.050	pCi/g						
Cobalt-60 10198400	U	0.00573	+/-0.0276	0.0467		pCi/g						
Europium-152 14683239	U	-0.00983	+/-0.0779	0.112		pCi/g						
Europium-154 15585101	U	-0.0927	+/-0.0959	0.149		pCi/g						
Manganese-54 13966319	U	-0.00257	+/-0.0278	0.048		pCi/g						
Potassium-40 13966002		25.0	+/-1.93	0.346		pCi/g						
Sodium-22 13966320	U	-0.0272	+/-0.0342	0.0539		pCi/g						
Thorium-228 14274829		1.51	+/-0.177	0.0627		pCi/g						
Thorium-232 7440291		1.63	+/-0.283	0.157		pCi/g						
Uranium-235 15117961	U	0.167	+/-0.143	0.256		pCi/g						
Uranium-238 7440611		1.70	+/-0.686	0.713		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0344	+/-0.0254	0.0413	0.050	pCi/g		JXR	08/06/09	0855	889148	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.412	+/-0.423	0.762	1.00	pCi/g		EXK	08/01/09	0337	889151	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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GEL LABORATORIES LLC

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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0012S001
Sample ID: 233955036
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			DRS1	07/28/09	1847	889002			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			63.6	(25%–125%)

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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0013S001	Project:	SSFL00153
Sample ID:	233955037	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01–JUL–09 09:40		
Receive Date:	22–JUL–09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium–241 14596–10–2	U	0.102	+/-0.109	0.202		pCi/g		MXR107/29/09	1628	889136	1
Cesium–134 13967709	UI	0.00	+/-0.0413	0.058		pCi/g					
Cesium–137 10045973	U	0.0231	+/-0.0247	0.0452	0.050	pCi/g					
Cobalt–60 10198400	U	0.0227	+/-0.0245	0.0451		pCi/g					
Europium–152 14683239	U	0.0125	+/-0.0642	0.0993		pCi/g					
Europium–154 15585101	U	-0.0543	+/-0.075	0.122		pCi/g					
Manganese–54 13966319	U	0.000638	+/-0.0244	0.0419		pCi/g					
Potassium–40 13966002		24.5	+/-2.31	0.305		pCi/g					
Sodium–22 13966320	U	-0.0185	+/-0.0269	0.0439		pCi/g					
Thorium–228 14274829		1.47	+/-0.128	0.0578		pCi/g					
Thorium–232 7440291		1.61	+/-0.277	0.139		pCi/g					
Uranium–235 15117961	U	0.0719	+/-0.128	0.224		pCi/g					
Uranium–238 7440611	U	0.889	+/-0.947	1.66		pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium–90 10098972	U	0.0298	+/-0.0281	0.0468	0.050	pCi/g		JXR1 08/06/09	0855	889148	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028–17–8	U	-0.164	+/-0.430	0.757	1.00	pCi/g		EXK2 08/01/09	0541	889151	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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GEL LABORATORIES LLC

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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0014S001
Sample ID: 233955038
Matrix: Soil
Collect Date: 01-JUL-09 09:15
Receive Date: 22-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	-0.00247	+/-0.142	0.237		pCi/g		MXR	107/29/09	1628	889136	1
Cesium-134 13967709	UI	0.00	+/-0.0397	0.0557		pCi/g						
Cesium-137 10045973		0.0704	+/-0.0289	0.0323	0.050	pCi/g						
Cobalt-60 10198400	U	0.010	+/-0.0268	0.0443		pCi/g						
Europium-152 14683239	U	0.0161	+/-0.060	0.0944		pCi/g						
Europium-154 15585101	U	0.0197	+/-0.0692	0.121		pCi/g						
Manganese-54 13966319	U	0.0035	+/-0.0231	0.0401		pCi/g						
Potassium-40 13966002		24.6	+/-2.33	0.326		pCi/g						
Sodium-22 13966320	U	-0.000413	+/-0.0252	0.0433		pCi/g						
Thorium-228 14274829		1.39	+/-0.122	0.0536		pCi/g						
Thorium-232 7440291		1.48	+/-0.250	0.129		pCi/g						
Uranium-235 15117961	U	0.159	+/-0.132	0.228		pCi/g						
Uranium-238 7440611	U	1.47	+/-1.47	1.74		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972		0.0361	+/-0.0196	0.0276	0.050	pCi/g		JXR	108/09/09	1052	889148	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.297	+/-0.425	0.758	1.00	pCi/g		EXK	208/01/09	0745	889151	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0015S001
Sample ID: 233955039
Matrix: Soil
Collect Date: 01-JUL-09 10:10
Receive Date: 22-JUL-09
Collector: Client
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.000668	+/-0.0912	0.154		pCi/g		MXR	107/29/09	1629	889136	1
Cesium-134 13967709	UI	0.00	+/-0.0351	0.0564		pCi/g						
Cesium-137 10045973		0.113	+/-0.0458	0.0383	0.050	pCi/g						
Cobalt-60 10198400	U	0.00574	+/-0.0238	0.041		pCi/g						
Europium-152 14683239	U	-0.0101	+/-0.0618	0.0996		pCi/g						
Europium-154 15585101	U	-0.0445	+/-0.0795	0.129		pCi/g						
Manganese-54 13966319	U	-0.00113	+/-0.0262	0.042		pCi/g						
Potassium-40 13966002		26.6	+/-2.16	0.304		pCi/g						
Sodium-22 13966320	U	-0.0155	+/-0.0287	0.0468		pCi/g						
Thorium-228 14274829		1.20	+/-0.104	0.0536		pCi/g						
Thorium-232 7440291		1.27	+/-0.236	0.116		pCi/g						
Uranium-235 15117961	U	0.117	+/-0.130	0.224		pCi/g						
Uranium-238 7440611	U	1.14	+/-1.15	1.31		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0034	+/-0.0253	0.0456	0.050	pCi/g		JXR	1 08/06/09	0856	889148	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.164	+/-0.431	0.760	1.00	pCi/g		EXK	2 08/01/09	0948	889151	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0016S001	Project:	SSFL00153
Sample ID:	233955040	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01–JUL–09 09:50		
Receive Date:	22–JUL–09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium–241 14596–10–2	UI	0.00	+/-0.0359	0.064		pCi/g		MXR107/29/09	1629	889136	1
Cesium–134 13967709	UI	0.00	+/-0.038	0.0632		pCi/g					
Cesium–137 10045973	U	0.0291	+/-0.0277	0.0493	0.050	pCi/g					
Cobalt–60 10198400	U	0.0232	+/-0.026	0.047		pCi/g					
Europium–152 14683239	U	-0.054	+/-0.0752	0.101		pCi/g					
Europium–154 15585101	U	-0.0337	+/-0.0842	0.142		pCi/g					
Manganese–54 13966319	U	0.00334	+/-0.028	0.0493		pCi/g					
Potassium–40 13966002		22.7	+/-1.66	0.389		pCi/g					
Sodium–22 13966320	U	-0.0123	+/-0.0304	0.0513		pCi/g					
Thorium–228 14274829		1.51	+/-0.149	0.0539		pCi/g					
Thorium–232 7440291		1.64	+/-0.253	0.150		pCi/g					
Uranium–235 15117961	U	0.0882	+/-0.138	0.210		pCi/g					
Uranium–238 7440611		1.42	+/-0.661	0.615		pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium–90 10098972	U	0.00886	+/-0.0183	0.0327	0.050	pCi/g		JXR1 08/09/09	1052	889148	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028–17–8	U	-0.0409	+/-0.434	0.757	1.00	pCi/g		EXK2 08/01/09	1152	889151	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0028S001
Sample ID: 233955044
Matrix: Soil
Collect Date: 01-JUL-09 13:15
Receive Date: 22-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	-0.00721	+/-0.0853	0.134		pCi/g			MXR	107/29/09	1630 889136	1
Cesium-134 13967709	UI	0.00	+/-0.0465	0.055		pCi/g						
Cesium-137 10045973	U	0.0361	+/-0.025	0.0453	0.050	pCi/g						
Cobalt-60 10198400	U	0.00378	+/-0.0262	0.0446		pCi/g						
Europium-152 14683239	U	-0.00641	+/-0.073	0.098		pCi/g						
Europium-154 15585101	U	-0.0178	+/-0.0754	0.126		pCi/g						
Manganese-54 13966319	U	0.00568	+/-0.0237	0.042		pCi/g						
Potassium-40 13966002		25.7	+/-2.13	0.339		pCi/g						
Sodium-22 13966320	U	-0.00556	+/-0.0272	0.0454		pCi/g						
Thorium-228 14274829		1.49	+/-0.127	0.0554		pCi/g						
Thorium-232 7440291		1.58	+/-0.262	0.131		pCi/g						
Uranium-235 15117961	U	0.0918	+/-0.133	0.229		pCi/g						
Uranium-238 7440611		1.67	+/-1.05	1.12		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0329	+/-0.0269	0.043	0.050	pCi/g		JXR	1 08/06/09	0856 889148		2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.174	+/-0.443	0.758	1.00	pCi/g		EXK	2 08/02/09	0029 889151		3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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GEL LABORATORIES LLC

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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0028S001
Sample ID: 233955044
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			DRS1	07/28/09	1847	889002			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			64.7	(25%–125%)

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QC Summary

Report Date: August 13, 2009

Page 1 of 6

MECx, LLC
3061 West 92nd Ave
#10-D
Westminster, Colorado

Contact: Ms. Kim Schultz
Workorder: 233955

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	889135										
QC1201890782 233955001 DUP											
Americium-241	U	0.0361	U	-0.0579	pCi/g	859		N/A	MXR1	07/29/09	23:02
		+/-0.0653		+/-0.0824							
Cesium-134	UI	0.00	UI	0.00	pCi/g	2.92		N/A			
		+/-0.0444		+/-0.030							
Cesium-137	U	0.0181	U	0.0207	pCi/g	13.3		N/A			
		+/-0.0229		+/-0.0228							
Cobalt-60	U	0.000528	U	-0.0028	pCi/g	293		N/A			
		+/-0.0241		+/-0.0175							
Europium-152	U	-0.0132	U	0.0361	pCi/g	429		N/A			
		+/-0.0564		+/-0.057							
Europium-154	U	0.0704	U	-0.0462	pCi/g	962		N/A			
		+/-0.0724		+/-0.0598							
Manganese-54	U	0.011	U	0.00286	pCi/g	117		N/A			
		+/-0.0238		+/-0.0202							
Potassium-40		24.7		22.2	pCi/g	10.4		(0% - 20%)			
		+/-2.30		+/-1.63							
Sodium-22	U	0.0228	U	-0.0163	pCi/g	1200		N/A			
		+/-0.0261		+/-0.0215							
Thorium-228		1.44		1.42	pCi/g	0.769		(0% - 20%)			
		+/-0.151		+/-0.115							
Thorium-232		1.50		1.38	pCi/g	8.48		(0% - 20%)			
		+/-0.250		+/-0.190							
Uranium-235	U	0.028	U	0.0288	pCi/g	2.61		N/A			
		+/-0.122		+/-0.109							
Uranium-238		1.82	U	0.300	pCi/g	143*		(0% - 100%)			
		+/-0.942		+/-0.702							
QC1201890783 LCS											
Americium-241		15.9		13.6	pCi/g		85.5	(75%-125%)		07/29/09	21:30
				+/-1.87							
Cesium-134			U	0.056	pCi/g						
				+/-0.0856							
Cesium-137		5.62		5.75	pCi/g		102	(75%-125%)			
				+/-0.382							
Cobalt-60		6.86		6.49	pCi/g		94.6	(75%-125%)			
				+/-0.545							
Europium-152			U	-0.0379	pCi/g						
				+/-0.163							
Europium-154			U	-0.114	pCi/g						
				+/-0.134							

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QC Summary

Workorder: 233955

Page 2 of 6

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	889135										
Manganese-54			U	0.0264	pCi/g						
				+/-0.0727							
Potassium-40				1.22	pCi/g				MXR1	07/29/09	21:30
				+/-0.745							
Sodium-22			U	-0.0365	pCi/g						
				+/-0.0471							
Thorium-228				1.25	pCi/g						
				+/-0.173							
Thorium-232				1.42	pCi/g						
				+/-0.586							
Uranium-235			U	0.0144	pCi/g						
				+/-0.291							
Uranium-238			U	-1.77	pCi/g						
				+/-2.83							
QC1201890781	MB										
Americium-241			U	0.0139	pCi/g					07/29/09	23:01
				+/-0.0347							
Cesium-134			U	0.0126	pCi/g						
				+/-0.00784							
Cesium-137			U	0.000713	pCi/g						
				+/-0.0133							
Cobalt-60			U	-0.00115	pCi/g						
				+/-0.00718							
Europium-152			U	-0.00893	pCi/g						
				+/-0.0181							
Europium-154			U	0.0183	pCi/g						
				+/-0.0205							
Manganese-54			U	0.00835	pCi/g						
				+/-0.00656							
Potassium-40			U	0.118	pCi/g						
				+/-0.0793							
Sodium-22			U	0.00482	pCi/g						
				+/-0.00746							
Thorium-228			U	0.00232	pCi/g						
				+/-0.020							
Thorium-232			U	-0.0343	pCi/g						
				+/-0.0374							
Uranium-235			U	0.0593	pCi/g						
				+/-0.037							
Uranium-238			U	-0.169	pCi/g						
				+/-0.395							
Batch	889136										
QC1201890785	233955035 DUP										
Americium-241	U	0.117	U	-0.00236	pCi/g	208			N/A MXR1	07/29/09	21:14
		+/-0.150		+/-0.0692							

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QC Summary

Workorder: 233955

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	889136										
Cesium-134		UI	0.00	UI	0.00	pCi/g	0.539		N/A		
			+/-0.0453		+/-0.0361						
Cesium-137			0.0654		0.0428	pCi/g	41.7	(0% - 100%)	MXR1	07/29/09	21:14
			+/-0.0389		+/-0.0275						
Cobalt-60		U	-0.0224	U	0.0049	pCi/g	312		N/A		
			+/-0.0252		+/-0.0174						
Europium-152		U	-0.0164	U	-0.0256	pCi/g	43.5		N/A		
			+/-0.0584		+/-0.0421						
Europium-154		U	0.0217	U	-0.00167	pCi/g	233		N/A		
			+/-0.0849		+/-0.0556						
Manganese-54		U	0.00773	U	0.000914	pCi/g	158		N/A		
			+/-0.0237		+/-0.0172						
Potassium-40			25.5		25.6	pCi/g	0.470	(0% - 20%)			
			+/-2.12		+/-1.96						
Sodium-22		U	0.013	U	-0.000227	pCi/g	207		N/A		
			+/-0.0304		+/-0.0201						
Thorium-228			1.50		1.44	pCi/g	3.75	(0% - 20%)			
			+/-0.139		+/-0.112						
Thorium-232			1.40		1.47	pCi/g	5.44	(0% - 20%)			
			+/-0.250		+/-0.200						
Uranium-235		U	0.0514	U	0.0464	pCi/g	10.1		N/A		
			+/-0.129		+/-0.131						
Uranium-238		U	1.32	U	0.832	pCi/g	45.2		N/A		
			+/-1.41		+/-0.883						
QC1201890786	LCS										
Americium-241	15.9				13.8	pCi/g	86.9	(75%-125%)		07/29/09	20:29
					+/-2.02						
Cesium-134				U	0.0849	pCi/g					
					+/-0.0831						
Cesium-137	5.63				5.80	pCi/g	103	(75%-125%)			
					+/-0.391						
Cobalt-60	6.86				6.54	pCi/g	95.3	(75%-125%)			
					+/-0.552						
Europium-152				U	0.0132	pCi/g					
					+/-0.185						
Europium-154				U	-0.0107	pCi/g					
					+/-0.156						
Manganese-54				U	0.00756	pCi/g					
					+/-0.0702						
Potassium-40				U	0.845	pCi/g					
					+/-0.569						
Sodium-22				U	0.00915	pCi/g					
					+/-0.054						
Thorium-228					0.925	pCi/g					
					+/-0.184						

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QC Summary

Workorder: 233955

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	889148										
Strontium-90	2.77			3.03	pCi/g		109	(75%-125%)	JXR1	08/05/09	08:20
				+/-0.169							
QC1201891626	LCSD										
Strontium-90	2.77			3.15	pCi/g	3.85	114	(0%-20%)		08/05/09	08:20
				+/-0.179							
QC1201890822	MB										
Strontium-90			U	-0.000603	pCi/g					08/06/09	08:56
				+/-0.0204							
Batch	890377										
QC1201893655	234235022	DUP									
Strontium-90			U	0.0354	pCi/g	0.00		N/A	JXR1	08/11/09	08:06
				+/-0.0223							
QC1201893657	LCS										
Strontium-90	2.76			2.94	pCi/g		106	(75%-125%)		08/07/09	07:50
				+/-0.165							
QC1201893654	MB										
Strontium-90			U	0.0168	pCi/g					08/07/09	20:02
				+/-0.0153							
QC1201893656	234235022	MS									
Strontium-90	2.78		U	0.0354	pCi/g		100	(75%-125%)		08/07/09	07:50
				+/-0.0223							
				+/-0.156							
Rad Liquid Scintillation											
Batch	889149										
QC1201890829	LCS										
Tritium	11.2			11.4	pCi/g		102	(75%-125%)	EXK2	08/01/09	18:20
				+/-1.98							
QC1201891617	LCSD										
Tritium	11.2			9.55	pCi/g	18.0	85.4	(0%-20%)		08/01/09	18:36
				+/-1.89							
QC1201890826	MB										
Tritium			U	-0.836	pCi/g					08/01/09	17:18
				+/-0.750							
Batch	889151										
QC1201890833	LCS										
Tritium	11.3			9.67	pCi/g		85.3	(75%-125%)	EXK2	08/02/09	04:34
				+/-1.84							
QC1201891615	LCSD										
Tritium	11.3			9.46	pCi/g	2.23	83.4	(0%-20%)		08/03/09	13:01
				+/-2.23							
QC1201890830	MB										
Tritium			U	-0.0612	pCi/g					08/02/09	02:32
				+/-0.432							

Notes:

The Qualifiers in this report are defined as follows:

** Analyte is a surrogate compound

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QC Summary

Workorder: 233955

Page 6 of 6

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<											
>											
A											
B											
BD											
C											
D											
F											
H											
J											
M											
M											
N/A											
ND											
NJ											
R											
U											
UI											
X											
Y											
^											
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.



December 08, 2009

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

Re: SSFL
Project Number: 1891614
Project Name: ISRA HV Waste Characterization
Work Order: 234235
SDG: 234235

Dear Ms. Schultz,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 29, 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
Chain of Custody:
Enclosures

Irvine
17401 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

GEL LABS
2040 SAVAGE RD.
CHARLESTON, SC 29407
(843) 769-7388

234235

Chain of Custody Record

GEL **AR** **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

ALEX FISCHL 925-627-4627

Jacqueline Trudell

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Tom Venable		Site Contact: Shelby Valenzuela		Date: 7-28-09		COC No: 4	
The Boeing Company SSFL		Tel/Fax: 818-466-8779 / 818-466-4873		Lab Contact: Joe Deak		Carrier: FEDEX		1 of 2 COCs	
5800 Woolsey Canyon Road		Analysis Turnaround Time		RADIOCHEMISTRY CHANGING SAMPLE CONTAINERS				Job No. 1891614	
Canoga Park, CA 91304		Calendar (C) or Work Days (W) <u>W</u>						1004982-0545	
Phone		TAT if different from Below						SDG No.	
FAX		<input checked="" type="checkbox"/> 2 weeks 10 DAYS <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Project Name: ISRA - HV Waste Characterization									
Site: Happy Valley ELV									
P O # 7KSSISRA									

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	DEPTH	Sample Specific Notes:
ISWC0062 RadSOIL	7-28-09	9:07	SLEENE	SOIL	1																					1.6' bgs	
ISWC0064 RadSOIL	7-28-09	9:28			1																						1.8' bgs
ISWC0066 RadSOIL	7-28-09	9:48			1																						0.9' bgs
ISWC0068 RadSOIL	7-28-09	9:53			1																						0.7' bgs
ISWC0050 RadSOIL	7-28-09	10:43			1																						0.4' bgs
ISWC0052 RadSOIL	7-28-09	10:56			1																						0.7' bgs
ISWC0054 RadSOIL	7-28-09	11:05			1																						0.4' bgs
ISWC0056 RadSOIL	7-28-09	11:23			1																						1.5' bgs
ISWC0058 RadSOIL	7-28-09	11:39			1																						0.7' bgs
ISWC0060 RadSOIL	7-28-09	11:56			1																						0.8' bgs
ISWC0070 RadSOIL	7-28-09	13:26			1																						0.5' bgs
ISWC0072 RadSOIL	7-28-09	13:57			1																						0.8' bgs

Preservation Used: 1= Ice; 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client Disposal By Lab Archive For 6 Months

Special Instructions/QC Requirements & Comments: Run STL/C (WET) / TCLP if TLG results > 10x STL/C / 20x TCLP thresholds

RAD CHEM COMPOUND LIST PER E-MAIL DATED 7/28/09

Relinquished by: <i>Alton M. Roberts</i>	Company: MWH	Date/Time: 7/28/09 16:18	Received by: <i>[Signature]</i>	Company: GEL	Date/Time: 7/29/09 8:10
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Irvine AR
 17461 Berian Ave.
 Suite 100
 Irvine, CA 92614
 Phone 949.261.1022 fax 949.260.3299

GEL LABS
 2040 SAVAGE RD.
 CHARLESTON, SC 29407
 (843) 769-7388

234235

Chain of Custody Record

GEL AR
TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

ALEX FISCHL 925-627-4627 *Jacqueline Truett*

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Tom Venable		Site Contact: Shelby Valenzuela		Date: 7-28-09		COC No: 4	
The Boeing Company SSFL		Tel/Fax: 818-466-8779 / 818-466-4873		Lab Contact: Joe Doak		Carrier: Fedex		2 of 2 COCs	
5800 Woolsey Canyon Road		Analysis Turnaround Time		RADIOCHEMISTRY <small>64474666</small>				Job No. 1891614	
Canoga Park, CA 91304		Calendar (C) or Work Days (W) W						1006982-05453	
Phone		TAT if different from Below						SDG No.	
FAX		<input checked="" type="checkbox"/> 2 weeks - 10 DAYS							
Project Name: ISRA - HV Waste Characterization		<input type="checkbox"/> 1 week							
Site: Happy Valley - ELN		<input type="checkbox"/> 2 days							
P O # 7KSSISRA		<input type="checkbox"/> 1 day						DEPTH	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:		
15WC0074 RadS001		7-28-09	13:51	SLEEVE	SOIL	1	1.5' bgs		
15WC0076 RadS001		7-28-09	14:05	↓	↓	1	0.2' bgs		
AR 7/28/09									
Preservation Used: <input checked="" type="checkbox"/> Ice 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B	
		<input type="checkbox"/> Unknown		<input type="checkbox"/> Return To Client		<input type="checkbox"/> Disposal By Lab		<input checked="" type="checkbox"/> Archive For 6 Months	
Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP if TPLC results > 10x STLC / 20x TCLP thresholds		RAD CHEM COMPOUND LIST PER E-MAIL DATED 7/28/09							
Relinquished by: <i>Ally M. Ristolo</i>	Company: MWH	Date/Time: 7/28/09 16:18	Received by: <i>[Signature]</i>	Company: GEL	Date/Time: 7/29/09 8:40				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				

Irvine
 17461 Derian Ave
 Suite 100
 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299

GEL Labs
 2040 Savage Rd
 Charleston, SC, 29407
 (843) 769.7388

234235

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

Alex Fish, 925-427-4627

Jacqueline Truell, Fed-00

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Tom Venables		Site Contact: Shelby Valenzuela		Date: 7/28/09		COC No:	
The Boeing Company SSFL		Tel/Fax: 818.466.8770 / 818.466.4873		Lab Contact: Joe Deane		Carrier: Lab Direct		3 of 4 COCs	
5800 Woolsey Canyon Road		Analysis Turnaround Time						Job No.	
Canoga Park, CA 91304		Calendar (C) or Work Days (W) <u>W</u>						1891614	
Phone		TAT if different from Below						SDG No.	
FAX		<input checked="" type="checkbox"/> -2 weeks <u>10 day</u>							
Project Name: ISRA - HV Waste Characterization		<input type="checkbox"/> 1 week							
Site: Happy Valley <u>ELV</u>		<input type="checkbox"/> 2 days							
P O # 7KSSISRA		<input type="checkbox"/> 1 day							

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Radiochemistry	Sample Specific Notes:
ISWC0061 Rad S001	7-28-09	0905	sleeve	soil	51	X	
ISWC0063 Rad S001		0917	sleeve		1	X	
ISWC0065 Rad S001		0957			1	X	
ISWC0067 Rad S001		0948			1	X	
ISWC0049 Rad S001		1042			1	X	
ISWC0051 Rad S001		1053			1	X	
ISWC0053 Rad S001		1105			1	X	
ISWC0055 Rad S001		1114			1	X	
ISWC0058 Rad S001		1130			1	X	
ISWC0059 Rad S001		1142			1	X	
ISWC0069 Rad S001		1328			1	X	
ISWC0071 Rad S001		1338			1	X	

Preservation Used: Ice, HCl, H2SO4, HNO3, NaOH, Other 1

Possible Hazard Identification: Non-Hazard, Flammable, Skin Irritant, Poison B, Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client, Disposal By Lab, Archive For 6 Months

Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP if TTLC results > 10x STLC / 20x TCLP thresholds

radchem compound list per email dated 7/28/09

Relinquished by:	Company: MWM	Date/Time: 7/28/09 16:21	Received by:	Company: GEL	Date/Time: 7/29/09 8:40
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Irvine ⁿ
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 Irvine, CA 92614
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234235

GEL

TestAmerica

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Alex Fishl 915-627-4627 ^{Fed-04} ~~Joe~~ Terquelin Tridell

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: <u>Fom Venable</u> ^{SV}			Site Contact: <u>Shelby Valenzuela</u>		Date: <u>7-28-09</u>		COC No:	
The Boeing Company SSFL		Tel/Fax: <u>818-466-8779 / 818-466-4873</u> ^{SV}			Lab Contact: <u>Joe Doak</u>		Carrier: <u>12/7/09</u> ^{SV}		4 of 4 COCs	
5800 Woolsey Canyon Road		Analysis Turnaround Time			CAM 17-Meters ^{SV} Radiochemistry				Job No.	
Canoga Park, CA 91304		Calendar (C) or Work Days (W) <u>W</u>							1891614	
Phone		TAT if different from Below _____							SDG No.	
FAX		<input checked="" type="checkbox"/> 2 weeks ^{SV 10 day}								
Project Name: ISRA - HV Waste Characterization		<input type="checkbox"/> 1 week								
Site: <u>Happy Valley</u> ^{ELV}		<input type="checkbox"/> 2 days								
P O # 7KSSISRA		<input type="checkbox"/> 1 day							Sample Specific Notes:	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				
<u>ISWC-0073 Rad. Soil</u>		<u>7/28/09</u>	<u>1348</u>	<u>sludge</u>	<u>soil</u>	<u>1</u>	<input checked="" type="checkbox"/>			
<u>ISWC-0075 Rad. Soil</u>		<u>"</u>	<u>1400</u>	<u>"</u>	<u>"</u>	<u>1</u>	<input checked="" type="checkbox"/>			
		^{SV} 7/28/09								
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other <u>1</u>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard			<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B	
		<input type="checkbox"/> Unknown			<input type="checkbox"/> Return To Client		<input type="checkbox"/> Disposal By Lab		<input checked="" type="checkbox"/> Archive For <u>6</u> Months	
Special Instructions/QC Requirements & Comments: <u>Run STLC (WET) / TCLP if TTLC results > 10x STLC / 20x TCLP thresholds</u> ^{SV}										
<u>rad chem compound list per email dated 7/28/09</u>										
Relinquished by: <u>[Signature]</u>		Company: <u>MWH</u>		Date/Time: <u>7/29/09 1621</u>		Received by: <u>[Signature]</u>		Company: <u>GEL</u>		Date/Time: <u>7/29/09 8:40</u>
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:



SAMPLE RECEIPT & REVIEW FORM

Client: <u>SSFL</u>		SDG/ARCOC/Work Order: <u>234235</u>	
Received By: <u>B Jyl</u>		Date Received: <u>7/29/09</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*: <u>Cpm 40</u>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	
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>4</u> ice bags blue ice dry ice none other (describe)
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:

FEDEx #9457 3158 0672

PM (or PMA) review: Initials

JT

Date

7/29/09

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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID:	ISWC0062RadS001	Project:	SSFL00153
Sample ID:	234235001	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	28-JUL-09 09:07		
Receive Date:	29-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.00439	+/-0.104	0.172		pCi/g		MXR	10/30/09	1223	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0401	0.0549		pCi/g						
Cesium-137 10045973		0.252	+/-0.0436	0.038	0.050	pCi/g						
Cobalt-60 10198400	U	-0.00286	+/-0.0213	0.0363		pCi/g						
Europium-152 14683239	U	0.020	+/-0.0624	0.0986		pCi/g						
Europium-154 15585101	U	0.0284	+/-0.0701	0.125		pCi/g						
Manganese-54 13966319	U	-0.00548	+/-0.022	0.0374		pCi/g						
Potassium-40 13966002		22.2	+/-1.85	0.292		pCi/g						
Sodium-22 13966320	U	0.0101	+/-0.0249	0.0446		pCi/g						
Thorium-228 14274829		1.06	+/-0.0998	0.0564		pCi/g						
Thorium-232 7440291		1.05	+/-0.196	0.112		pCi/g						
Uranium-235 15117961	U	-0.059	+/-0.127	0.220		pCi/g						
Uranium-238 7440611		1.61	+/-1.29	1.36		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0228	+/-0.0258	0.0431	0.050	pCi/g		JXR	08/08/09	0905	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	1.11	+/-0.884	1.46	1.00	pCi/g		EXK	08/13/09	1413	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0062RadS001
Sample ID: 234235001
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXP2	07/29/09	1533	889188				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			72.2	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0064RadS001
Sample ID: 234235002
Matrix: Soil
Collect Date: 28-JUL-09 09:28
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium-241 14596-10-2	U	0.0108	+/-0.108	0.188		pCi/g		MXR1	07/30/09	1224	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0394	0.0577		pCi/g						
Cesium-137 10045973		0.101	+/-0.0349	0.0416	0.050	pCi/g						
Cobalt-60 10198400	U	-0.0065	+/-0.0243	0.0402		pCi/g						
Europium-152 14683239	U	0.000907	+/-0.0616	0.102		pCi/g						
Europium-154 15585101	U	-0.0542	+/-0.0705	0.112		pCi/g						
Manganese-54 13966319	U	0.0364	+/-0.0263	0.039		pCi/g						
Potassium-40 13966002		21.4	+/-1.88	0.305		pCi/g						
Sodium-22 13966320	U	-0.0193	+/-0.025	0.0399		pCi/g						
Thorium-228 14274829		1.38	+/-0.145	0.0583		pCi/g						
Thorium-232 7440291		1.41	+/-0.246	0.130		pCi/g						
Uranium-235 15117961	U	-0.0173	+/-0.131	0.230		pCi/g						
Uranium-238 7440611		2.00	+/-1.60	1.48		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium-90 10098972	U	0.00269	+/-0.015	0.029	0.050	pCi/g		JXR1	08/11/09	1016	890376	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028-17-8	U	0.129	+/-0.379	0.669	1.00	pCi/g		EXK2	08/07/09	1716	890448	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0064RadS001
Sample ID: 234235002
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXP2	07/29/09	1533	889188				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			81.9	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0066RadS001
Sample ID: 234235003
Matrix: Soil
Collect Date: 28-JUL-09 09:48
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium-241 14596-10-2	U	0.00872	+/-0.128	0.240		pCi/g		MXR107/30/09	1224	889195	1
Cesium-134 13967709	UI	0.00	+/-0.033	0.0545		pCi/g					
Cesium-137 10045973		0.653	+/-0.0692	0.0375	0.050	pCi/g					
Cobalt-60 10198400	U	-0.00693	+/-0.0224	0.0373		pCi/g					
Europium-152 14683239	U	-0.0706	+/-0.0586	0.0945		pCi/g					
Europium-154 15585101	U	-0.0368	+/-0.066	0.109		pCi/g					
Manganese-54 13966319	U	-0.00515	+/-0.0209	0.0355		pCi/g					
Potassium-40 13966002		22.2	+/-1.88	0.317		pCi/g					
Sodium-22 13966320	U	-0.0182	+/-0.0239	0.0386		pCi/g					
Thorium-228 14274829		1.20	+/-0.116	0.0561		pCi/g					
Thorium-232 7440291		1.33	+/-0.221	0.125		pCi/g					
Uranium-235 15117961	U	0.156	+/-0.124	0.224		pCi/g					
Uranium-238 7440611	U	1.14	+/-1.07	1.94		pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium-90 10098972		0.0229	+/-0.0146	0.0219	0.050	pCi/g		JXR1 08/11/09	1755	890376	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028-17-8	U	-0.156	+/-0.364	0.687	1.00	pCi/g		EXK2 08/10/09	1633	890448	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0066RadS001
Sample ID: 234235003
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			87.3	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0068RadS001
Sample ID: 234235004
Matrix: Soil
Collect Date: 28-JUL-09 09:53
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0422	+/-0.0393	0.067		pCi/g		MXR	107/30/09	1225	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0514	0.0658		pCi/g						
Cesium-137 10045973	U	0.026	+/-0.0272	0.0484	0.050	pCi/g						
Cobalt-60 10198400	U	-0.042	+/-0.027	0.0382		pCi/g						
Europium-152 14683239	U	-0.0435	+/-0.0706	0.104		pCi/g						
Europium-154 15585101	U	-0.00166	+/-0.086	0.144		pCi/g						
Manganese-54 13966319	U	0.00313	+/-0.0254	0.0444		pCi/g						
Potassium-40 13966002		23.1	+/-1.77	0.339		pCi/g						
Sodium-22 13966320	U	0.00193	+/-0.0303	0.0508		pCi/g						
Thorium-228 14274829		1.33	+/-0.157	0.061		pCi/g						
Thorium-232 7440291		1.37	+/-0.265	0.153		pCi/g						
Uranium-235 15117961	U	0.137	+/-0.131	0.237		pCi/g						
Uranium-238 7440611		0.831	+/-0.606	0.658		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0166	+/-0.0194	0.0326	0.050	pCi/g		JXR	108/11/09	1016	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.0892	+/-0.381	0.707	1.00	pCi/g		EXK	208/10/09	1725	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0068RadS001
Sample ID: 234235004
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			76.5	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0050RadS001
Sample ID: 234235005
Matrix: Soil
Collect Date: 28-JUL-09 10:43
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0543	+/-0.129	0.215		pCi/g		MXR1	07/30/09	1225	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0417	0.061		pCi/g						
Cesium-137 10045973	U	0.0207	+/-0.0297	0.050	0.050	pCi/g						
Cobalt-60 10198400	U	0.011	+/-0.0269	0.0468		pCi/g						
Europium-152 14683239	U	-0.00216	+/-0.0772	0.113		pCi/g						
Europium-154 15585101	U	-0.0236	+/-0.0867	0.143		pCi/g						
Manganese-54 13966319	U	0.023	+/-0.0249	0.0456		pCi/g						
Potassium-40 13966002		22.6	+/-1.85	0.370		pCi/g						
Sodium-22 13966320	U	-0.00944	+/-0.0307	0.0505		pCi/g						
Thorium-228 14274829		1.37	+/-0.122	0.0687		pCi/g						
Thorium-232 7440291		1.29	+/-0.237	0.155		pCi/g						
Uranium-235 15117961	U	-0.0138	+/-0.151	0.257		pCi/g						
Uranium-238 7440611	U	0.750	+/-1.12	1.67		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0275	+/-0.0274	0.0443	0.050	pCi/g		JXR1	08/07/09	1135	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.126	+/-0.383	0.715	1.00	pCi/g		EXK2	08/10/09	1818	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0050RadS001
Sample ID: 234235005
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXP2	07/29/09	1533	889188				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			73.3	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0052RadS001
Sample ID: 234235006
Matrix: Soil
Collect Date: 28-JUL-09 10:56
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0346	+/-0.0614	0.104		pCi/g		MXR	107/30/09	1226	889195	1
Cesium-134 13967709	U	0.0415	+/-0.0327	0.0506		pCi/g						
Cesium-137 10045973		0.612	+/-0.0752	0.0358	0.050	pCi/g						
Cobalt-60 10198400	U	-0.0117	+/-0.0206	0.0331		pCi/g						
Europium-152 14683239	U	-0.0132	+/-0.0547	0.0917		pCi/g						
Europium-154 15585101	U	0.0137	+/-0.0675	0.117		pCi/g						
Manganese-54 13966319	U	-0.00485	+/-0.0215	0.0363		pCi/g						
Potassium-40 13966002		22.6	+/-2.14	0.318		pCi/g						
Sodium-22 13966320	U	0.00649	+/-0.0239	0.0417		pCi/g						
Thorium-228 14274829		1.21	+/-0.129	0.0518		pCi/g						
Thorium-232 7440291		1.27	+/-0.214	0.107		pCi/g						
Uranium-235 15117961	U	-0.0484	+/-0.121	0.203		pCi/g						
Uranium-238 7440611	U	0.724	+/-0.742	0.904		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0237	+/-0.0216	0.0341	0.050	pCi/g		JXR	108/08/09	0906	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.0539	+/-0.397	0.712	1.00	pCi/g		EXK	208/10/09	1910	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0052RadS001
Sample ID: 234235006
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			81.9	(25%–125%)

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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID:	ISWC0054RadS001	Project:	SSFL00153
Sample ID:	234235007	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	28-JUL-09 11:05		
Receive Date:	29-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0455	+/-0.185	0.301		pCi/g		MXR1	07/30/09	1640	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0482	0.0625		pCi/g						
Cesium-137 10045973		0.659	+/-0.0639	0.0449	0.050	pCi/g						
Cobalt-60 10198400	U	0.0297	+/-0.0272	0.0493		pCi/g						
Europium-152 14683239	U	0.0551	+/-0.092	0.129		pCi/g						
Europium-154 15585101	U	0.0112	+/-0.0839	0.135		pCi/g						
Manganese-54 13966319	U	-0.00428	+/-0.0247	0.0423		pCi/g						
Potassium-40 13966002		23.6	+/-2.12	0.361		pCi/g						
Sodium-22 13966320	U	0.00479	+/-0.0299	0.0481		pCi/g						
Thorium-228 14274829		1.23	+/-0.127	0.0722		pCi/g						
Thorium-232 7440291		1.24	+/-0.228	0.154		pCi/g						
Uranium-235 15117961	U	0.0202	+/-0.166	0.282		pCi/g						
Uranium-238 7440611	U	2.13	+/-1.83	2.32		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0413	+/-0.030	0.0474	0.050	pCi/g		JXR1	08/11/09	1016	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.357	+/-0.404	0.679	1.00	pCi/g		EXK2	08/07/09	2139	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0054RadS001
Sample ID: 234235007
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			80.9	(25%–125%)

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Certificate of Analysis

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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0056RadS001
Sample ID: 234235008
Matrix: Soil
Collect Date: 28-JUL-09 11:23
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.064	+/-0.0722	0.124		pCi/g		MXR1	07/30/09	1227	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0339	0.0483		pCi/g						
Cesium-137 10045973	U	0.0101	+/-0.0206	0.0362	0.050	pCi/g						
Cobalt-60 10198400	U	-0.000478	+/-0.0187	0.0314		pCi/g						
Europium-152 14683239	U	0.0159	+/-0.0585	0.0932		pCi/g						
Europium-154 15585101	U	-0.0185	+/-0.0632	0.105		pCi/g						
Manganese-54 13966319	U	0.00913	+/-0.0199	0.0358		pCi/g						
Potassium-40 13966002		21.8	+/-1.69	0.271		pCi/g						
Sodium-22 13966320	U	-0.00762	+/-0.0224	0.037		pCi/g						
Thorium-228 14274829		1.25	+/-0.115	0.0528		pCi/g						
Thorium-232 7440291		1.37	+/-0.214	0.121		pCi/g						
Uranium-235 15117961	U	0.121	+/-0.118	0.209		pCi/g						
Uranium-238 7440611		1.36	+/-0.879	1.08		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0369	+/-0.0308	0.0499	0.050	pCi/g		JXR1	08/11/09	1124	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.269	+/-0.367	0.712	1.00	pCi/g		EXK2	08/10/09	2003	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Certificate of Analysis

Company : MECx, LLC
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 #10–D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0056RadS001
Sample ID: 234235008
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			80.9	(25%–125%)

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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID:	ISWC0058RadS001	Project:	SSFL00153
Sample ID:	234235009	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	28-JUL-09 11:39		
Receive Date:	29-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.017	+/-0.0907	0.154		pCi/g		MXR107/30/09	1227	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0388	0.0564		pCi/g					
Cesium-137 10045973		0.315	+/-0.0499	0.0393	0.050	pCi/g					
Cobalt-60 10198400	U	0.0241	+/-0.0212	0.0394		pCi/g					
Europium-152 14683239	U	-0.0468	+/-0.0571	0.0882		pCi/g					
Europium-154 15585101	U	-0.101	+/-0.077	0.117		pCi/g					
Manganese-54 13966319	U	0.0074	+/-0.0219	0.038		pCi/g					
Potassium-40 13966002		24.3	+/-2.00	0.288		pCi/g					
Sodium-22 13966320	U	-0.0364	+/-0.0272	0.0413		pCi/g					
Thorium-228 14274829		1.22	+/-0.105	0.0537		pCi/g					
Thorium-232 7440291		1.32	+/-0.232	0.132		pCi/g					
Uranium-235 15117961	U	0.136	+/-0.125	0.215		pCi/g					
Uranium-238 7440611	U	0.619	+/-1.13	1.28		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0142	+/-0.0259	0.0447	0.050	pCi/g		JXR1 08/12/09	0824	890376	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	0.0371	+/-0.408	0.735	1.00	pCi/g		EXK2 08/10/09	2056	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Project : **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0058RadS001
Sample ID: 234235009
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			77.6	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0060RadS001
Sample ID: 234235010
Matrix: Soil
Collect Date: 28-JUL-09 11:56
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0519	+/-0.0383	0.0681		pCi/g		MXR1	07/30/09	1228	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0443	0.069		pCi/g						
Cesium-137 10045973		0.090	+/-0.0436	0.0497	0.050	pCi/g						
Cobalt-60 10198400	U	0.00357	+/-0.0294	0.0508		pCi/g						
Europium-152 14683239	U	-0.0428	+/-0.0932	0.116		pCi/g						
Europium-154 15585101	U	-0.0154	+/-0.092	0.157		pCi/g						
Manganese-54 13966319	U	0.0121	+/-0.0267	0.0477		pCi/g						
Potassium-40 13966002		22.0	+/-1.70	0.335		pCi/g						
Sodium-22 13966320	U	-0.0051	+/-0.0327	0.0559		pCi/g						
Thorium-228 14274829		1.37	+/-0.140	0.0605		pCi/g						
Thorium-232 7440291		1.63	+/-0.260	0.173		pCi/g						
Uranium-235 15117961	U	0.0412	+/-0.168	0.233		pCi/g						
Uranium-238 7440611	U	0.610	+/-0.655	0.651		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.017	+/-0.0262	0.0456	0.050	pCi/g		JXR1	08/08/09	0906	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.0543	+/-0.390	0.717	1.00	pCi/g		EXK2	08/10/09	2148	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact : Ms. Kim Schultz
Project : **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0060RadS001
Sample ID: 234235010
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			76.5	(25%–125%)

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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID:	ISWC0070RadS001	Project:	SSFL00153
Sample ID:	234235011	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	28-JUL-09 13:26		
Receive Date:	29-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0208	+/-0.0834	0.133		pCi/g		MXR107/30/09	1228	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0432	0.057		pCi/g					
Cesium-137 10045973	U	0.00942	+/-0.0211	0.0368	0.050	pCi/g					
Cobalt-60 10198400	U	0.00203	+/-0.0197	0.0335		pCi/g					
Europium-152 14683239	U	-0.0277	+/-0.0716	0.0942		pCi/g					
Europium-154 15585101	U	-0.0659	+/-0.0753	0.119		pCi/g					
Manganese-54 13966319	U	-0.0298	+/-0.022	0.0354		pCi/g					
Potassium-40 13966002		20.9	+/-1.77	0.297		pCi/g					
Sodium-22 13966320	U	-0.0246	+/-0.0266	0.0421		pCi/g					
Thorium-228 14274829		1.46	+/-0.123	0.0519		pCi/g					
Thorium-232 7440291		1.60	+/-0.249	0.123		pCi/g					
Uranium-235 15117961	UI	0.00	+/-0.163	0.210		pCi/g					
Uranium-238 7440611	U	1.02	+/-0.908	1.13		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.00411	+/-0.0228	0.0429	0.050	pCi/g		JXR1 08/08/09	0906	890376	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	0.0173	+/-0.374	0.677	1.00	pCi/g		EXK2 08/08/09	0109	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0070RadS001
Sample ID: 234235011
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXP2	07/29/09	1533	889188				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			75.5	(25%–125%)

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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID:	ISWC0072RadS001	Project:	SSFL00153
Sample ID:	234235012	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	28-JUL-09 13:37		
Receive Date:	29-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium-241 14596-10-2	U	-0.0736	+/-0.196	0.318		pCi/g		MXR107/30/09	1228	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0393	0.064		pCi/g					
Cesium-137 10045973	U	0.00873	+/-0.0283	0.0487	0.050	pCi/g					
Cobalt-60 10198400	U	-0.0013	+/-0.0264	0.0439		pCi/g					
Europium-152 14683239	U	-0.038	+/-0.0906	0.119		pCi/g					
Europium-154 15585101	U	0.0156	+/-0.0854	0.139		pCi/g					
Manganese-54 13966319	U	-0.00446	+/-0.025	0.0432		pCi/g					
Potassium-40 13966002		20.9	+/-1.88	0.343		pCi/g					
Sodium-22 13966320	U	0.00554	+/-0.0304	0.0494		pCi/g					
Thorium-228 14274829		1.70	+/-0.161	0.0714		pCi/g					
Thorium-232 7440291		1.71	+/-0.274	0.142		pCi/g					
Uranium-235 15117961	U	-0.00421	+/-0.166	0.286		pCi/g					
Uranium-238 7440611	U	1.45	+/-1.68	2.41		pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium-90 10098972	U	0.0149	+/-0.0221	0.0384	0.050	pCi/g		JXR1 08/08/09	0906	890376	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028-17-8	U	-0.162	+/-0.377	0.711	1.00	pCi/g		EXK2 08/10/09	2241	890448	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Company : MECx, LLC
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0072RadS001
Sample ID: 234235012
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			86.3	(25%–125%)

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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID:	ISWC0074RadS001	Project:	SSFL00153
Sample ID:	234235013	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	28-JUL-09 13:51		
Receive Date:	29-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium-241 14596-10-2	U	0.0745	+/-0.0463	0.0795		pCi/g		MXR1	07/30/09	1229	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0454	0.0695		pCi/g						
Cesium-137 10045973	U	-0.00603	+/-0.0291	0.0491	0.050	pCi/g						
Cobalt-60 10198400	U	-0.00211	+/-0.0319	0.0534		pCi/g						
Europium-152 14683239	U	-0.0154	+/-0.0741	0.114		pCi/g						
Europium-154 15585101	U	0.0225	+/-0.0933	0.161		pCi/g						
Manganese-54 13966319	U	0.00581	+/-0.0284	0.0504		pCi/g						
Potassium-40 13966002		22.0	+/-1.79	0.437		pCi/g						
Sodium-22 13966320	U	0.00849	+/-0.0332	0.0572		pCi/g						
Thorium-228 14274829		1.33	+/-0.135	0.0627		pCi/g						
Thorium-232 7440291		1.46	+/-0.250	0.151		pCi/g						
Uranium-235 15117961	U	0.151	+/-0.145	0.258		pCi/g						
Uranium-238 7440611		0.901	+/-0.591	0.763		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium-90 10098972	U	-0.0211	+/-0.0148	0.0384	0.050	pCi/g		JXR1	08/08/09	0907	890376	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028-17-8	U	0.0557	+/-0.410	0.735	1.00	pCi/g		EXK2	08/10/09	2333	890448	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact : Ms. Kim Schultz
Project : **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0074RadS001
Sample ID: 234235013
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			88.4	(25%–125%)

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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID:	ISWC0076RadS001	Project:	SSFL00153
Sample ID:	234235014	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	28-JUL-09 14:05		
Receive Date:	29-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	-0.0416	+/-0.0982	0.172		pCi/g		MXR1	07/30/09	1229	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0291	0.043		pCi/g						
Cesium-137 10045973		0.137	+/-0.0323	0.0323	0.050	pCi/g						
Cobalt-60 10198400	U	-0.000768	+/-0.0177	0.0297		pCi/g						
Europium-152 14683239	U	-0.0333	+/-0.0591	0.0788		pCi/g						
Europium-154 15585101	U	-0.01	+/-0.0552	0.0926		pCi/g						
Manganese-54 13966319	U	0.00231	+/-0.0175	0.0302		pCi/g						
Potassium-40 13966002		24.0	+/-1.96	0.233		pCi/g						
Sodium-22 13966320	U	-0.0073	+/-0.0198	0.0329		pCi/g						
Thorium-228 14274829		1.32	+/-0.108	0.0455		pCi/g						
Thorium-232 7440291		1.27	+/-0.215	0.103		pCi/g						
Uranium-235 15117961	U	0.0129	+/-0.113	0.190		pCi/g						
Uranium-238 7440611	U	0.650	+/-0.819	1.44		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.00219	+/-0.0192	0.0382	0.050	pCi/g		JXR1	08/08/09	0907	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.0366	+/-0.403	0.725	1.00	pCi/g		EXK2	08/11/09	0026	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0076RadS001
Sample ID: 234235014
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			75.5	(25%–125%)

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Certificate of Analysis

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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID:	ISWC0061RadS001	Project:	SSFL00153
Sample ID:	234235015	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	28-JUL-09 09:05		
Receive Date:	29-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium-241 14596-10-2	U	0.0905	+/-0.0909	0.154		pCi/g		MXR107/30/09	1229	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0395	0.0506		pCi/g					
Cesium-137 10045973		0.172	+/-0.037	0.034	0.050	pCi/g					
Cobalt-60 10198400	U	-0.000487	+/-0.0203	0.0348		pCi/g					
Europium-152 14683239	U	0.0199	+/-0.0847	0.0919		pCi/g					
Europium-154 15585101	U	-0.00374	+/-0.0678	0.116		pCi/g					
Manganese-54 13966319	U	0.0148	+/-0.0208	0.0369		pCi/g					
Potassium-40 13966002		23.1	+/-1.94	0.270		pCi/g					
Sodium-22 13966320	U	0.00488	+/-0.0237	0.0414		pCi/g					
Thorium-228 14274829		1.13	+/-0.100	0.0539		pCi/g					
Thorium-232 7440291		1.26	+/-0.196	0.113		pCi/g					
Uranium-235 15117961	U	0.0828	+/-0.120	0.213		pCi/g					
Uranium-238 7440611	U	0.382	+/-0.860	1.25		pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium-90 10098972	U	0.0162	+/-0.0203	0.0344	0.050	pCi/g		JXR1 08/08/09	0907	890376	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028-17-8	U	-0.127	+/-0.384	0.718	1.00	pCi/g		EXK2 08/11/09	0118	890448	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Certificate of Analysis

Company : MECx, LLC
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Contact : Ms. Kim Schultz
Project : **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0061RadS001
Sample ID: 234235015
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXP2	07/29/09	1533	889188				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			92.7	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0063RadS001
Sample ID: 234235016
Matrix: Soil
Collect Date: 28-JUL-09 09:17
Receive Date: 29-JUL-09
Collector: Client
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0577	+/-0.0635	0.109		pCi/g		MXR1	07/30/09	1230	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0329	0.0469		pCi/g						
Cesium-137 10045973	U	-0.00425	+/-0.018	0.0317	0.050	pCi/g						
Cobalt-60 10198400	U	0.0111	+/-0.0183	0.0321		pCi/g						
Europium-152 14683239	U	0.0102	+/-0.0488	0.0847		pCi/g						
Europium-154 15585101	U	0.034	+/-0.0597	0.104		pCi/g						
Manganese-54 13966319	U	-0.00535	+/-0.0183	0.0313		pCi/g						
Potassium-40 13966002		21.6	+/-1.63	0.244		pCi/g						
Sodium-22 13966320	U	0.0114	+/-0.0213	0.037		pCi/g						
Thorium-228 14274829		1.24	+/-0.139	0.0452		pCi/g						
Thorium-232 7440291		1.28	+/-0.212	0.101		pCi/g						
Uranium-235 15117961	U	0.0778	+/-0.152	0.176		pCi/g						
Uranium-238 7440611	U	0.733	+/-0.920	0.949		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0144	+/-0.015	0.0248	0.050	pCi/g		JXR1	08/11/09	1755	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.128	+/-0.387	0.723	1.00	pCi/g		EXK2	08/11/09	0211	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0063RadS001
Sample ID: 234235016
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			70.1	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0065RadS001
Sample ID: 234235017
Matrix: Soil
Collect Date: 28-JUL-09 09:37
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0634	+/-0.0441	0.0726		pCi/g		MXR1	07/30/09	1230	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0648	0.0766		pCi/g						
Cesium-137 10045973		0.455	+/-0.0861	0.0551	0.050	pCi/g						
Cobalt-60 10198400	U	-0.0286	+/-0.0327	0.0515		pCi/g						
Europium-152 14683239	U	0.00506	+/-0.0866	0.124		pCi/g						
Europium-154 15585101	U	-0.0766	+/-0.111	0.184		pCi/g						
Manganese-54 13966319	U	-0.00833	+/-0.0306	0.0517		pCi/g						
Potassium-40 13966002		21.8	+/-2.22	0.493		pCi/g						
Sodium-22 13966320	U	-0.0264	+/-0.0396	0.0655		pCi/g						
Thorium-228 14274829		1.43	+/-0.159	0.0672		pCi/g						
Thorium-232 7440291		1.30	+/-0.256	0.179		pCi/g						
Uranium-235 15117961	U	0.186	+/-0.143	0.250		pCi/g						
Uranium-238 7440611		1.37	+/-0.607	0.699		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972		0.0363	+/-0.0189	0.0277	0.050	pCi/g		JXR1	08/12/09	0824	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.0204	+/-0.820	1.48	1.00	pCi/g		EXK2	08/13/09	0155	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0065RadS001
Sample ID: 234235017
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			81.9	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0067RadS001
Sample ID: 234235018
Matrix: Soil
Collect Date: 28-JUL-09 09:48
Receive Date: 29-JUL-09
Collector: Client
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0578	+/-0.0957	0.163		pCi/g		MXR1	07/30/09	1354	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0357	0.0495		pCi/g						
Cesium-137 10045973		0.124	+/-0.0355	0.0347	0.050	pCi/g						
Cobalt-60 10198400	U	-0.0232	+/-0.0191	0.0281		pCi/g						
Europium-152 14683239	U	-0.0362	+/-0.063	0.090		pCi/g						
Europium-154 15585101	U	-0.046	+/-0.0692	0.111		pCi/g						
Manganese-54 13966319	U	-0.0108	+/-0.0197	0.0335		pCi/g						
Potassium-40 13966002		22.2	+/-2.06	0.294		pCi/g						
Sodium-22 13966320	U	-0.0153	+/-0.0247	0.0398		pCi/g						
Thorium-228 14274829		1.16	+/-0.0976	0.0524		pCi/g						
Thorium-232 7440291		1.17	+/-0.218	0.107		pCi/g						
Uranium-235 15117961	U	0.0317	+/-0.122	0.213		pCi/g						
Uranium-238 7440611	U	0.728	+/-0.876	1.35		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0243	+/-0.0291	0.0491	0.050	pCi/g		JXR1	08/07/09	1138	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.121	+/-0.359	0.673	1.00	pCi/g		EXK2	08/08/09	0717	890448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Address : 3061 West 92nd Ave
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0067RadS001
Sample ID: 234235018
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			78.7	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0049RadS001
Sample ID: 234235019
Matrix: Soil
Collect Date: 28-JUL-09 10:42
Receive Date: 29-JUL-09
Collector: Client
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0491	+/-0.0401	0.0686		pCi/g		MXR1	07/30/09	1640	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0406	0.0635		pCi/g						
Cesium-137 10045973		0.140	+/-0.0427	0.0452	0.050	pCi/g						
Cobalt-60 10198400	U	-0.0115	+/-0.0266	0.0426		pCi/g						
Europium-152 14683239	U	-0.0243	+/-0.0718	0.102		pCi/g						
Europium-154 15585101	U	-0.0455	+/-0.0852	0.137		pCi/g						
Manganese-54 13966319	U	0.00167	+/-0.0244	0.0427		pCi/g						
Potassium-40 13966002		22.4	+/-1.74	0.355		pCi/g						
Sodium-22 13966320	U	-0.0117	+/-0.0299	0.0486		pCi/g						
Thorium-228 14274829		1.44	+/-0.167	0.0563		pCi/g						
Thorium-232 7440291		1.31	+/-0.252	0.150		pCi/g						
Uranium-235 15117961	U	0.237	+/-0.134	0.237		pCi/g						
Uranium-238 7440611		0.790	+/-0.513	0.666		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.00961	+/-0.0232	0.0428	0.050	pCi/g		JXR1	08/08/09	0907	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.0861	+/-0.362	0.672	1.00	pCi/g		EXK2	08/11/09	1506	890461	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0049RadS001
Sample ID: 234235019
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			72.2	(25%–125%)

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Certificate of Analysis

Company : MECx, LLC
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 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID:	ISWC0051RadS001	Project:	SSFL00153
Sample ID:	234235020	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	28-JUL-09 10:53		
Receive Date:	29-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0359	+/-0.0371	0.066		pCi/g		MXR	10/30/09	1641	889195	1
Cesium-134 13967709	UI	0.00	+/-0.0466	0.0679		pCi/g						
Cesium-137 10045973	U	-0.0211	+/-0.0283	0.0469	0.050	pCi/g						
Cobalt-60 10198400	U	0.00665	+/-0.0282	0.0491		pCi/g						
Europium-152 14683239	U	0.00609	+/-0.0678	0.108		pCi/g						
Europium-154 15585101	U	-0.056	+/-0.0875	0.145		pCi/g						
Manganese-54 13966319	U	0.0079	+/-0.0274	0.0487		pCi/g						
Potassium-40 13966002		21.8	+/-1.65	0.421		pCi/g						
Sodium-22 13966320	U	-0.0201	+/-0.0311	0.0516		pCi/g						
Thorium-228 14274829		1.25	+/-0.130	0.0592		pCi/g						
Thorium-232 7440291		1.13	+/-0.234	0.172		pCi/g						
Uranium-235 15117961	U	0.00421	+/-0.138	0.233		pCi/g						
Uranium-238 7440611		0.686	+/-0.608	0.652		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	-0.00422	+/-0.0175	0.0378	0.050	pCi/g		JXR	08/07/09	1138	890376	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.154	+/-0.354	0.669	1.00	pCi/g		EXK	08/11/09	1559	890461	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0051RadS001
Sample ID: 234235020
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXP2	07/29/09	1533	889188			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			89.5	(25%–125%)

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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID:	ISWC0053RadS001	Project:	SSFL00153
Sample ID:	234235021	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	28-JUL-09 11:05		
Receive Date:	29-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0418	+/-0.0443	0.0753		pCi/g		MXR107/31/09	1824	889196	1
Cesium-134 13967709	UI	0.00	+/-0.0496	0.0691		pCi/g					
Cesium-137 10045973		0.394	+/-0.0711	0.0534	0.050	pCi/g					
Cobalt-60 10198400	U	0.00124	+/-0.0281	0.0473		pCi/g					
Europium-152 14683239	U	-0.0326	+/-0.0754	0.114		pCi/g					
Europium-154 15585101	U	-0.00963	+/-0.0943	0.158		pCi/g					
Manganese-54 13966319	U	0.0103	+/-0.0282	0.0504		pCi/g					
Potassium-40 13966002		22.1	+/-1.75	0.392		pCi/g					
Sodium-22 13966320	U	-0.00392	+/-0.0335	0.056		pCi/g					
Thorium-228 14274829		1.21	+/-0.125	0.0628		pCi/g					
Thorium-232 7440291		1.08	+/-0.254	0.160		pCi/g					
Uranium-235 15117961	U	-0.0156	+/-0.141	0.247		pCi/g					
Uranium-238 7440611		1.20	+/-0.704	0.724		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0351	+/-0.0228	0.0365	0.050	pCi/g		JXR1 08/10/09	1109	890377	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	0.126	+/-0.374	0.663	1.00	pCi/g		EXK2 08/13/09	0608	890461	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Certificate of Analysis

Company : MECx, LLC
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 #10–D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0053RadS001
Sample ID: 234235021
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1231	889192			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			83.0	(25%–125%)

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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0055RadS001
Sample ID: 234235022
Matrix: Soil
Collect Date: 28-JUL-09 11:16
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0253	+/-0.0301	0.0506		pCi/g		MXR	10/31/09	2328	889196	1
Cesium-134 13967709	UI	0.00	+/-0.0328	0.0534		pCi/g						
Cesium-137 10045973		0.410	+/-0.0534	0.0409	0.050	pCi/g						
Cobalt-60 10198400	U	0.00778	+/-0.0234	0.0404		pCi/g						
Europium-152 14683239	U	-0.0495	+/-0.0582	0.0871		pCi/g						
Europium-154 15585101	U	-0.0546	+/-0.0734	0.121		pCi/g						
Manganese-54 13966319	U	0.00176	+/-0.0218	0.0376		pCi/g						
Potassium-40 13966002		24.1	+/-1.69	0.342		pCi/g						
Sodium-22 13966320	U	-0.0188	+/-0.0261	0.0432		pCi/g						
Thorium-228 14274829		1.35	+/-0.132	0.0467		pCi/g						
Thorium-232 7440291		1.23	+/-0.200	0.130		pCi/g						
Uranium-235 15117961	U	0.0987	+/-0.129	0.176		pCi/g						
Uranium-238 7440611		1.51	+/-0.627	0.486		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0354	+/-0.0223	0.0357	0.050	pCi/g		JXR	10/10/09	1109	890377	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.124	+/-0.367	0.650	1.00	pCi/g		EXK	2 08/13/09	0701	890461	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0055RadS001
Sample ID: 234235022
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1231	889192			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			81.9	(25%–125%)

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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0057RadS001
Sample ID: 234235023
Matrix: Soil
Collect Date: 28-JUL-09 11:30
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0974	+/-0.123	0.209		pCi/g		MXR107/31/09	2328	889196	1
Cesium-134 13967709	UI	0.00	+/-0.0303	0.0411		pCi/g					
Cesium-137 10045973	U	0.0195	+/-0.023	0.0288	0.050	pCi/g					
Cobalt-60 10198400	U	-0.0049	+/-0.0176	0.0291		pCi/g					
Europium-152 14683239	U	0.00499	+/-0.0766	0.0806		pCi/g					
Europium-154 15585101	U	-0.0092	+/-0.0628	0.0952		pCi/g					
Manganese-54 13966319	U	0.00767	+/-0.0163	0.0291		pCi/g					
Potassium-40 13966002		23.7	+/-1.92	0.237		pCi/g					
Sodium-22 13966320	U	-0.00328	+/-0.0224	0.0339		pCi/g					
Thorium-228 14274829		1.37	+/-0.123	0.0464		pCi/g					
Thorium-232 7440291		1.36	+/-0.192	0.102		pCi/g					
Uranium-235 15117961	U	0.116	+/-0.127	0.178		pCi/g					
Uranium-238 7440611	U	1.35	+/-1.23	1.51		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0268	+/-0.0194	0.0319	0.050	pCi/g		JXR1 08/07/09	2002	890377	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.208	+/-0.353	0.677	1.00	pCi/g		EXK2 08/11/09	1836	890461	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Address : 3061 West 92nd Ave
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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0057RadS001
Sample ID: 234235023
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXM5	07/30/09	1231	889192			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			89.5	(25%–125%)

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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0059RadS001
Sample ID: 234235024
Matrix: Soil
Collect Date: 28-JUL-09 11:42
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	UI	0.00	+/-0.0319	0.0541		pCi/g			MXR	107/31/09	2328 889196	1
Cesium-134 13967709	UI	0.00	+/-0.034	0.0502		pCi/g						
Cesium-137 10045973		0.0609	+/-0.0252	0.0358	0.050	pCi/g						
Cobalt-60 10198400	U	0.0168	+/-0.0205	0.0362		pCi/g						
Europium-152 14683239	U	0.028	+/-0.0507	0.0809		pCi/g						
Europium-154 15585101	U	0.00962	+/-0.0642	0.109		pCi/g						
Manganese-54 13966319	U	-0.00178	+/-0.0202	0.0353		pCi/g						
Potassium-40 13966002		21.9	+/-1.56	0.270		pCi/g						
Sodium-22 13966320	U	0.00296	+/-0.0228	0.0388		pCi/g						
Thorium-228 14274829		1.27	+/-0.120	0.044		pCi/g						
Thorium-232 7440291		1.38	+/-0.204	0.122		pCi/g						
Uranium-235 15117961	U	0.0113	+/-0.101	0.174		pCi/g						
Uranium-238 7440611		1.27	+/-0.476	0.524		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.027	+/-0.019	0.0311	0.050	pCi/g		JXR	1 08/07/09	2002 890377		2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.0186	+/-0.401	0.726	1.00	pCi/g		EXK	2 08/11/09	1929 890461		3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Company : MECx, LLC
Address : 3061 West 92nd Ave
 #10–D
 Westminster, Colorado 80031
Contact : Ms. Kim Schultz
Project : **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0059RadS001
Sample ID: 234235024
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1231	889192			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			76.5	(25%–125%)

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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0069RadS001
Sample ID: 234235025
Matrix: Soil
Collect Date: 28-JUL-09 13:28
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0358	+/-0.0655	0.114		pCi/g		MXR	10/31/09	2329	889196	1
Cesium-134 13967709	UI	0.00	+/-0.0201	0.0273		pCi/g						
Cesium-137 10045973		0.0282	+/-0.0129	0.0194	0.050	pCi/g						
Cobalt-60 10198400	U	0.00168	+/-0.0113	0.0193		pCi/g						
Europium-152 14683239	U	-0.00951	+/-0.0332	0.0497		pCi/g						
Europium-154 15585101	U	-0.0121	+/-0.0359	0.0606		pCi/g						
Manganese-54 13966319	UI	0.00	+/-0.00937	0.0183		pCi/g						
Potassium-40 13966002		23.5	+/-1.83	0.153		pCi/g						
Sodium-22 13966320	U	-0.00424	+/-0.0128	0.0216		pCi/g						
Thorium-228 14274829		1.16	+/-0.0887	0.0307		pCi/g						
Thorium-232 7440291		1.21	+/-0.182	0.0682		pCi/g						
Uranium-235 15117961	UI	0.00	+/-0.100	0.117		pCi/g						
Uranium-238 7440611	U	0.726	+/-0.780	0.905		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0141	+/-0.0208	0.0353	0.050	pCi/g		JXR	10/07/09	2002	890377	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.139	+/-0.361	0.679	1.00	pCi/g		EXK	20/11/09	2021	890461	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0069RadS001
Sample ID: 234235025
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1231	889192			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			73.3	(25%–125%)

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Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0071RadS001
Sample ID: 234235026
Matrix: Soil
Collect Date: 28-JUL-09 13:38
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0671	+/-0.0495	0.0835		pCi/g			MXR	10/31/09	2329	889196 1
Cesium-134 13967709	UI	0.00	+/-0.0281	0.0352		pCi/g						
Cesium-137 10045973		0.127	+/-0.0278	0.0222	0.050	pCi/g						
Cobalt-60 10198400	U	-0.00569	+/-0.0138	0.0222		pCi/g						
Europium-152 14683239	U	-0.0251	+/-0.0338	0.0583		pCi/g						
Europium-154 15585101	U	0.0132	+/-0.0432	0.0731		pCi/g						
Manganese-54 13966319	U	0.0104	+/-0.0137	0.0245		pCi/g						
Potassium-40 13966002		22.4	+/-1.56	0.179		pCi/g						
Sodium-22 13966320	U	0.00637	+/-0.0153	0.0261		pCi/g						
Thorium-228 14274829		1.49	+/-0.158	0.0348		pCi/g						
Thorium-232 7440291		1.42	+/-0.202	0.0778		pCi/g						
Uranium-235 15117961	U	0.0267	+/-0.110	0.136		pCi/g						
Uranium-238 7440611		1.21	+/-0.628	0.726		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0212	+/-0.0212	0.0354	0.050	pCi/g		JXR	10/07/09	2002	890377	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.0379	+/-0.386	0.699	1.00	pCi/g		EXK	20/13/09	0753	890461	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Address : 3061 West 92nd Ave
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0071RadS001
Sample ID: 234235026
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXM5	07/30/09	1231	889192			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			87.3	(25%–125%)

GEL LABORATORIES LLC

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 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0073RadS001
Sample ID: 234235027
Matrix: Soil
Collect Date: 28-JUL-09 13:48
Receive Date: 29-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	UI	0.00	+/-0.030	0.0495		pCi/g		MXR	10/31/09	2330	889196	1
Cesium-134 13967709	UI	0.00	+/-0.0489	0.0534		pCi/g						
Cesium-137 10045973		0.148	+/-0.0477	0.0336	0.050	pCi/g						
Cobalt-60 10198400	U	-0.00207	+/-0.022	0.0367		pCi/g						
Europium-152 14683239	U	-0.0326	+/-0.0674	0.0781		pCi/g						
Europium-154 15585101	U	-0.14	+/-0.0782	0.114		pCi/g						
Manganese-54 13966319	U	7.75E-05	+/-0.0207	0.0359		pCi/g						
Potassium-40 13966002		22.2	+/-2.05	0.320		pCi/g						
Sodium-22 13966320	U	-0.0501	+/-0.0276	0.0406		pCi/g						
Thorium-228 14274829		1.37	+/-0.143	0.0428		pCi/g						
Thorium-232 7440291		1.37	+/-0.208	0.122		pCi/g						
Uranium-235 15117961	U	0.137	+/-0.0942	0.164		pCi/g						
Uranium-238 7440611		1.37	+/-0.523	0.466		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0148	+/-0.0189	0.032	0.050	pCi/g		JXR	10/07/09	2002	890377	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.143	+/-0.373	0.657	1.00	pCi/g		EXK	20/13/09	0846	890461	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0073RadS001
Sample ID: 234235027
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1231	889192			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			81.9	(25%–125%)

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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID:	ISWC0075RadS001	Project:	SSFL00153
Sample ID:	234235028	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	28-JUL-09 14:00		
Receive Date:	29-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium-241 14596-10-2	U	-0.0308	+/-0.0394	0.066		pCi/g		MXR108/01/09	1132	889196	1
Cesium-134 13967709	U	0.0622	+/-0.0422	0.0639		pCi/g					
Cesium-137 10045973		0.127	+/-0.0432	0.0513	0.050	pCi/g					
Cobalt-60 10198400	U	0.00253	+/-0.0275	0.0473		pCi/g					
Europium-152 14683239	U	-0.041	+/-0.0758	0.110		pCi/g					
Europium-154 15585101	U	-0.00174	+/-0.0943	0.162		pCi/g					
Manganese-54 13966319	U	0.00175	+/-0.0279	0.0488		pCi/g					
Potassium-40 13966002		22.1	+/-1.69	0.393		pCi/g					
Sodium-22 13966320	U	-0.00081	+/-0.0336	0.0577		pCi/g					
Thorium-228 14274829		1.28	+/-0.133	0.0591		pCi/g					
Thorium-232 7440291		1.39	+/-0.243	0.182		pCi/g					
Uranium-235 15117961	U	0.182	+/-0.184	0.221		pCi/g					
Uranium-238 7440611		0.826	+/-0.629	0.646		pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium-90 10098972		0.070	+/-0.0329	0.0469	0.050	pCi/g		JXR1 08/11/09	0806	890377	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028-17-8	U	-0.0175	+/-0.374	0.683	1.00	pCi/g		EXK2 08/11/09	2259	890461	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0075RadS001
Sample ID: 234235028
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXM5	07/30/09	1231	889192			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			78.7	(25%–125%)

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

QC Summary

Report Date: August 14, 2009

Page 1 of 6

MECx, LLC
3061 West 92nd Ave
#10-D
Westminster, Colorado

Contact: Ms. Kim Schultz

Workorder: 234235

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	889195										
QC1201891791	234235001	DUP									
Americium-241	U	0.00439	U	0.0633	pCi/g	174		N/A	MXR1	07/30/09	16:42
		+/-0.104		+/-0.0391							
Cesium-134	UI	0.00	UI	0.00	pCi/g	60.0		N/A			
		+/-0.0401		+/-0.0437							
Cesium-137		0.252		0.236	pCi/g	6.84		(0% - 100%)			
		+/-0.0436		+/-0.0609							
Cobalt-60	U	-0.00286	U	-0.0107	pCi/g	116		N/A			
		+/-0.0213		+/-0.030							
Europium-152	U	0.020	U	0.00801	pCi/g	85.7		N/A			
		+/-0.0624		+/-0.084							
Europium-154	U	0.0284	U	-0.0583	pCi/g	581		N/A			
		+/-0.0701		+/-0.104							
Manganese-54	U	-0.00548	U	0.00289	pCi/g	646		N/A			
		+/-0.022		+/-0.027							
Potassium-40		22.2		22.3	pCi/g	0.719		(0% - 20%)			
		+/-1.85		+/-2.20							
Sodium-22	U	0.0101	U	-0.022	pCi/g	541		N/A			
		+/-0.0249		+/-0.0368							
Thorium-228		1.06		1.18	pCi/g	10.3		(0% - 20%)			
		+/-0.0998		+/-0.134							
Thorium-232		1.05		1.16	pCi/g	9.95		(0% - 20%)			
		+/-0.196		+/-0.247							
Uranium-235	U	-0.059	U	0.0232	pCi/g	458		N/A			
		+/-0.127		+/-0.124							
Uranium-238		1.61		1.21	pCi/g	28.4		(0% - 100%)			
		+/-1.29		+/-0.606							
QC1201891792	LCS										
Americium-241	15.9			14.0	pCi/g		88	(75%-125%)		07/30/09	16:43
				+/-1.20							
Cesium-134			U	0.0231	pCi/g						
				+/-0.0759							
Cesium-137	5.63			6.10	pCi/g		108	(75%-125%)			
				+/-0.560							
Cobalt-60	6.86			6.70	pCi/g		97.7	(75%-125%)			
				+/-0.505							
Europium-152			U	-0.101	pCi/g						
				+/-0.155							
Europium-154			U	0.0239	pCi/g						
				+/-0.121							

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QC Summary

Workorder: 234235

Page 2 of 6

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	889195										
Manganese-54			U	-0.00396 +/-0.0644	pCi/g						
Potassium-40				0.855 +/-0.858	pCi/g				MXR1	07/30/09	16:43
Sodium-22			U	0.00696 +/-0.044	pCi/g						
Thorium-228				1.11 +/-0.177	pCi/g						
Thorium-232				0.909 +/-0.388	pCi/g						
Uranium-235			U	0.043 +/-0.279	pCi/g						
Uranium-238			U	0.499 +/-1.72	pCi/g						
QC1201891790	MB										
Americium-241			U	-0.00529 +/-0.046	pCi/g					07/30/09	16:42
Cesium-134			U	0.0107 +/-0.0111	pCi/g						
Cesium-137			U	0.00353 +/-0.00896	pCi/g						
Cobalt-60			U	0.00153 +/-0.00992	pCi/g						
Europium-152			U	-0.00609 +/-0.0239	pCi/g						
Europium-154			U	-0.00306 +/-0.0258	pCi/g						
Manganese-54			U	-0.00238 +/-0.00903	pCi/g						
Potassium-40			U	0.0925 +/-0.125	pCi/g						
Sodium-22			U	-0.000529 +/-0.00912	pCi/g						
Thorium-228			U	-0.00903 +/-0.0182	pCi/g						
Thorium-232			U	0.0151 +/-0.0649	pCi/g						
Uranium-235			U	-0.0423 +/-0.0594	pCi/g						
Uranium-238			U	-0.455 +/-0.478	pCi/g						
Batch	889196										
QC1201890910	234234001 DUP										
Americium-241	U	0.0944	UI	0.00 +/-0.090	pCi/g	8.75			N/A MXR1	08/01/09	11:33

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

QC Summary

Workorder: 234235

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	889196										
Cesium-134		UI	0.00	UI	0.00	pCi/g	30.9		N/A		
			+/-0.0273		+/-0.0532						
Cesium-137			0.0655	UI	0.00	pCi/g	39.4	(0% - 100%)	MXR1	08/01/09	11:33
			+/-0.032		+/-0.0524						
Cobalt-60		U	0.00564	U	-0.00464	pCi/g	2040		N/A		
			+/-0.0201		+/-0.0295						
Europium-152		U	-0.0388	U	-0.0494	pCi/g	24.1		N/A		
			+/-0.0512		+/-0.0849						
Europium-154		U	-0.0199	U	0.0784	pCi/g	336		N/A		
			+/-0.0634		+/-0.0937						
Manganese-54		U	-0.00488	U	0.026	pCi/g	292		N/A		
			+/-0.0188		+/-0.023						
Potassium-40			22.1		21.2	pCi/g	4.07	(0% - 20%)			
			+/-2.03		+/-1.72						
Sodium-22		U	-0.00723	U	0.0282	pCi/g	338		N/A		
			+/-0.0226		+/-0.0333						
Thorium-228			1.02		1.24	pCi/g	19.5	(0% - 20%)			
			+/-0.087		+/-0.127						
Thorium-232			1.07		1.18	pCi/g	10.5	(0% - 20%)			
			+/-0.178		+/-0.231						
Uranium-235		U	0.105	U	0.0301	pCi/g	111		N/A		
			+/-0.117		+/-0.141						
Uranium-238		U	1.09		0.908	pCi/g	18.0	(0% - 100%)			
			+/-0.911		+/-0.664						
QC1201890911	LCS										
Americium-241	15.9				15.0	pCi/g		94.2	(75%-125%)		07/31/09 21:11
					+/-1.29						
Cesium-134				U	-0.0595	pCi/g					
					+/-0.133						
Cesium-137	5.63				6.28	pCi/g		112	(75%-125%)		
					+/-0.763						
Cobalt-60	6.86				7.33	pCi/g		107	(75%-125%)		
					+/-0.720						
Europium-152				U	-0.239	pCi/g					
					+/-0.258						
Europium-154				U	-0.0551	pCi/g					
					+/-0.202						
Manganese-54				U	-0.0837	pCi/g					
					+/-0.103						
Potassium-40				U	0.139	pCi/g					
					+/-0.691						
Sodium-22				U	-0.0196	pCi/g					
					+/-0.0718						
Thorium-228					1.26	pCi/g					
					+/-0.215						

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QC Summary

Workorder: 234235

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	889196										
Thorium-232				1.31	pCi/g						
				+/-0.802							
Uranium-235			U	-0.0508	pCi/g				MXR1	07/31/09	21:11
				+/-0.339							
Uranium-238			U	-1.25	pCi/g						
				+/-1.24							
QC1201890909	MB										
Americium-241			U	-0.0967	pCi/g					08/01/09	11:33
				+/-0.0843							
Cesium-134			U	-0.00599	pCi/g						
				+/-0.0157							
Cesium-137			U	-0.00885	pCi/g						
				+/-0.0135							
Cobalt-60			U	0.00193	pCi/g						
				+/-0.013							
Europium-152			U	-0.0186	pCi/g						
				+/-0.0385							
Europium-154			U	-0.0235	pCi/g						
				+/-0.0479							
Manganese-54			U	0.00928	pCi/g						
				+/-0.0119							
Potassium-40			U	-0.0856	pCi/g						
				+/-0.156							
Sodium-22			U	-0.00869	pCi/g						
				+/-0.017							
Thorium-228			U	0.0263	pCi/g						
				+/-0.0411							
Thorium-232			U	-0.0537	pCi/g						
				+/-0.0674							
Uranium-235			U	-0.0167	pCi/g						
				+/-0.0887							
Uranium-238			U	-0.521	pCi/g						
				+/-0.773							
Rad Gas Flow											
Batch	890376										
QC1201893651	234235005	DUP									
Strontium-90			U	0.0275	pCi/g	0.00			N/A	JXR1	08/08/09 09:05
				+/-0.0274							
QC1201893653	LCS										
Strontium-90	2.77			2.90	pCi/g		105	(75%-125%)		08/07/09	11:40
				+/-0.161							
QC1201893650	MB										
Strontium-90			U	-0.0118	pCi/g					08/07/09	11:39
				+/-0.0178							
QC1201893652	234235005	MS									
Strontium-90	2.78	U	0.0275	2.75	pCi/g		98.9	(75%-125%)		08/07/09	11:40

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QC Summary

Workorder: 234235

Page 5 of 6

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch		890376									
				+/-0.0274							+/-0.174
Batch		890377									
QC1201893655	234235022	DUP									
Strontium-90			U	0.0354	U	0.0315	pCi/g	0.00	N/A	JXR1	08/11/09 08:06
				+/-0.0223		+/-0.0231					
QC1201893657	LCS										
Strontium-90	2.76					2.94	pCi/g	106	(75%-125%)		08/07/09 07:50
						+/-0.165					
QC1201893654	MB										
Strontium-90				U	0.0168	pCi/g					08/07/09 20:02
					+/-0.0153						
QC1201893656	234235022	MS									
Strontium-90	2.78	U	0.0354		2.78	pCi/g	100	(75%-125%)			08/07/09 07:50
			+/-0.0223		+/-0.156						
Rad Liquid Scintillation											
Batch		890448									
QC1201893860	234324001	DUP									
Tritium			U	0.0869	U	0.00	pCi/g	0.00	N/A	EXK2	08/12/09 08:49
				+/-0.381		+/-0.532					
QC1201893862	LCS										
Tritium	11.3					10.7	pCi/g	95.4	(75%-125%)		08/08/09 11:05
						+/-1.62					
QC1201893859	MB										
Tritium				U	-0.145	pCi/g					08/13/09 02:58
					+/-0.352						
QC1201893861	234324001	MS									
Tritium	11.4	U	0.0869		11.9	pCi/g	104	(75%-125%)			08/08/09 10:47
			+/-0.381		+/-1.75						
Batch		890461									
QC1201893894	234376004	DUP									
Tritium			U	0.217	U	0.0367	pCi/g	0.00	N/A	EXK2	08/12/09 02:29
				+/-0.391		+/-0.397					
QC1201893896	LCS										
Tritium	11.2					11.4	pCi/g	102	(75%-125%)		08/12/09 03:39
						+/-1.66					
QC1201893893	MB										
Tritium				U	0.181	pCi/g					08/13/09 09:38
					+/-0.383						
QC1201893895	234376004	MS									
Tritium	11.4	U	0.217		11.3	pCi/g	98.7	(75%-125%)			08/12/09 03:22
			+/-0.391		+/-1.70						

Notes:

The Qualifiers in this report are defined as follows:

** Analyte is a surrogate compound

GEL LABORATORIES LLC

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

QC Summary

Workorder: 234235

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<											
>											
A											
B											
BD											
C											
D											
F											
H											
J											
M											
M											
N/A											
ND											
NJ											
R											
U											
UI											
X											
Y											
^											
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.



February 25, 2010

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

Re: SSFL
Project Number: 1891614.05452
Project Name: ISRA HV Waste Characterization
Work Order: 233955
SDG: 233955

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 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: 1891614.05452
Chain of Custody:
Enclosures

234325 GEL
 Chain of Custody Record

Alex Fischl 925-627-4627
 Site Contact: Shelby Valenzuela
 Lab Contact: Joe Deak

Project Manager: Tom Venable
 Tel/Fax: 818-466-8779 / 818-466-4873

Client Contact
 The Boeing Company SSFL
 5800 Woolsey Canyon Road
 Canoga Park, CA 91304

Project Name: ISRA - HV Waste Characterization
 Site: Happy Valley
 P O # 7KSSISRA

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Analysis Turnaround Time	Calendar (C) or Work Days (W)		TAT if different from Below	Site Contact: Shelby Valenzuela Lab Contact: Joe Deak	Date: 7-29-09 Carrier: FedEx	COC No: Job No. 1891614	SDG No.	Sample Specific Notes:
							X	W						
ISWC0077 Rad S001	7-29-09	09:55	sleeve soil		1	3 weeks 10 days	X	W	Radiochemistry					
ISWC0078 Rad S001		10:19				1 week			X					
ISWC0079 Rad S001		10:31				2 days			X					
ISWC0080 Rad S001		10:59				1 day			X					
ISWC0081 Rad S001		11:10							X					

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other
 Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Unknown

Special Instructions/QC Requirements & Comments: Run STL/C (WET) / TCLP if TCLC results ≥ 10x STL/C / 20x TCLP thresholds
 Rad chem compound list per email dated 7/28/09.

Relinquished by: Margaret L. Wilman-Barris
 Relinquished by: MWH
 Relinquished by: Company: MWH
 Date/Time: 7/29/09 13:52
 Date/Time: 7/30/09 8:35

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For 6 Months

AR TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

GEL

234325

Chain of Custody Record

AR GEL LABS
 2040 SAVAGE RD.
 CHARLESTON, SC 29407
 (843) 769-7388

TestAmerica Laboratories, Inc.
 17461 Detroit Ave
 Suite 100
 Irvine, CA 92614
 Phone 949.261.1022 fax 949.260.3299

Project Manager: Tom Venable
 Tel/Fax: 818-466-8779 / 818-466-4873
 Analysis Turnaround Time
 Calendar (C) or Work Days (W) W
 TAT if different from Below
 2 weeks - 10 DAYS
 1 week
 2 days
 1 day

Client Contact
 The Boeing Company SSFL
 5800 Woolsey Canyon Road
 Canoga Park, CA 91304
 Phone
 FAX
 Project Name: ISRA - HV Waste Characterization
 Site: Happy Valley
 P O # 7KSSISRA

Project Manager: Tom Venable
 Site Contact: Shelby Valenzuela
 Lab Contact: Joe Book
 Date: 7-29-09
 Carrier: FEDEX
 COC No: 2 of 2 COCs
 Job No: 1891614
 SDG No:
 Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Notes
15NC0086 Rad5001	7-29-09	9:39	SLEEVE	SOIL	1	
15NC0087 Rad5001		9:39				
15NC0088 Rad5001		9:53				
15NC0089 Rad5001		9:49				
15NC0084 Rad5001		10:31				
15NC0085 Rad5001		10:41				
15NC0090 Rad5001		11:05				
15NC0091 Rad5001		11:16				
15NC0092 Rad5001		11:28				
15NC0093 Rad5001		11:31				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
 Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Special Instructions/QC Requirements & Comments: RAD CHEM COMPOUND LIST PER E-MAIL DATED 7/28/09

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For 6 Months

Relinquished by: Alloy M. Ricketts Company: MWH Date/Time: 7/29/09 10:52
 Relinquished by: R. M. Stalling Company: GEL Date/Time: 7/30/09 8:35
 Relinquished by: _____ Company: _____ Date/Time: _____



Client: <u>SSFL</u>		SDG/ARCOC/Work Order: <u>234325</u>	
Received By: <u>Btgh</u>		Date Received: <u>7/30/09</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*: <u>Aprm 40cpm</u>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	
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>2^e</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: Fed Ex # 945731580661

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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0077RadS001
Sample ID: 234325001
Matrix: Soil
Collect Date: 29-JUL-09 09:55
Receive Date: 30-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0444	+/-0.104	0.178		pCi/g		MXR108/01/09	1209	889722	1
Cesium-134 13967709	UI	0.00	+/-0.029	0.042		pCi/g					
Cesium-137 10045973		0.0466	+/-0.0253	0.0324	0.050	pCi/g					
Cobalt-60 10198400	U	-0.00887	+/-0.0175	0.0287		pCi/g					
Europium-152 14683239	U	-0.0127	+/-0.0512	0.0759		pCi/g					
Europium-154 15585101	U	-0.0034	+/-0.0584	0.0992		pCi/g					
Manganese-54 13966319	U	0.00456	+/-0.0182	0.0317		pCi/g					
Potassium-40 13966002		25.4	+/-2.06	0.207		pCi/g					
Sodium-22 13966320	U	-0.00888	+/-0.0212	0.0352		pCi/g					
Thorium-228 14274829		1.47	+/-0.117	0.0481		pCi/g					
Thorium-232 7440291		1.46	+/-0.229	0.106		pCi/g					
Uranium-235 15117961	U	0.0538	+/-0.111	0.190		pCi/g					
Uranium-238 7440611	U	1.01	+/-1.08	1.44		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0307	+/-0.0238	0.0372	0.050	pCi/g		JXR1 08/11/09	1438	890346	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.202	+/-0.488	0.946	1.00	pCi/g		KXX2 08/11/09	0337	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Certificate of Analysis

Company : MECx, LLC
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 #10–D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0077RadS001
Sample ID: 234325001
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			77.6	(25%–125%)

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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0078RadS001
Sample ID: 234325002
Matrix: Soil
Collect Date: 29-JUL-09 10:19
Receive Date: 30-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0576	+/-0.0979	0.163		pCi/g		MXR108/01/09	1210	889722	1
Cesium-134 13967709	U	0.0395	+/-0.0289	0.0527		pCi/g					
Cesium-137 10045973	U	0.00741	+/-0.0218	0.0384	0.050	pCi/g					
Cobalt-60 10198400	U	0.00771	+/-0.022	0.0388		pCi/g					
Europium-152 14683239	U	0.0259	+/-0.0755	0.0962		pCi/g					
Europium-154 15585101	U	-0.0291	+/-0.071	0.119		pCi/g					
Manganese-54 13966319	U	0.0233	+/-0.0227	0.0407		pCi/g					
Potassium-40 13966002		23.9	+/-2.01	0.291		pCi/g					
Sodium-22 13966320	U	-0.0122	+/-0.0254	0.0423		pCi/g					
Thorium-228 14274829		1.43	+/-0.121	0.0559		pCi/g					
Thorium-232 7440291		1.46	+/-0.246	0.136		pCi/g					
Uranium-235 15117961	U	0.0379	+/-0.129	0.227		pCi/g					
Uranium-238 7440611	U	0.266	+/-1.04	1.36		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0004	+/-0.0232	0.0459	0.050	pCi/g		JXR1 08/08/09	0731	890346	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.0891	+/-0.508	0.958	1.00	pCi/g		KXK2 08/11/09	0410	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0078RadS001
Sample ID: 234325002
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			62.5	(25%–125%)

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#10-D
Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0079RadS001
Sample ID: 234325003
Matrix: Soil
Collect Date: 29-JUL-09 10:31
Receive Date: 30-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0602	+/-0.072	0.122		pCi/g		MXR108/01/09	1210	889722	1
Cesium-134 13967709	UI	0.00	+/-0.0347	0.0525		pCi/g					
Cesium-137 10045973	U	-0.0128	+/-0.0199	0.0342	0.050	pCi/g					
Cobalt-60 10198400	U	-0.00895	+/-0.0199	0.0317		pCi/g					
Europium-152 14683239	U	-0.0146	+/-0.0489	0.0857		pCi/g					
Europium-154 15585101	U	0.039	+/-0.0632	0.110		pCi/g					
Manganese-54 13966319	U	0.000982	+/-0.0198	0.0345		pCi/g					
Potassium-40 13966002		26.9	+/-1.97	0.292		pCi/g					
Sodium-22 13966320	U	0.0114	+/-0.0226	0.0391		pCi/g					
Thorium-228 14274829		1.60	+/-0.176	0.0513		pCi/g					
Thorium-232 7440291		1.70	+/-0.267	0.113		pCi/g					
Uranium-235 15117961	U	-0.0533	+/-0.123	0.207		pCi/g					
Uranium-238 7440611		1.53	+/-0.953	1.07		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.00167	+/-0.0184	0.0353	0.050	pCi/g		JXR1 08/11/09	1438	890346	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.0547	+/-0.524	0.981	1.00	pCi/g		KXK2 08/11/09	0442	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0079RadS001
Sample ID: 234325003
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			80.9	(25%–125%)

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 Address : 3061 West 92nd Ave
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 Westminster, Colorado 80031
 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0080RadS001	Project:	SSFL00153
Sample ID:	234325004	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	29-JUL-09 10:59		
Receive Date:	30-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0571	+/-0.0393	0.0636		pCi/g		MXR108/01/09	1211	889722	1
Cesium-134 13967709	UI	0.00	+/-0.0424	0.0684		pCi/g					
Cesium-137 10045973	U	0.00257	+/-0.0275	0.0485	0.050	pCi/g					
Cobalt-60 10198400	U	-0.00915	+/-0.0287	0.0467		pCi/g					
Europium-152 14683239	U	-0.0172	+/-0.0782	0.107		pCi/g					
Europium-154 15585101	U	-0.051	+/-0.0921	0.148		pCi/g					
Manganese-54 13966319	U	0.0234	+/-0.0269	0.0482		pCi/g					
Potassium-40 13966002		24.6	+/-2.34	0.372		pCi/g					
Sodium-22 13966320	U	-0.0178	+/-0.0328	0.0528		pCi/g					
Thorium-228 14274829		1.78	+/-0.187	0.0567		pCi/g					
Thorium-232 7440291		1.76	+/-0.278	0.156		pCi/g					
Uranium-235 15117961	U	0.0529	+/-0.122	0.213		pCi/g					
Uranium-238 7440611		1.51	+/-0.569	0.628		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0227	+/-0.019	0.0295	0.050	pCi/g		JXR1 08/11/09	0952	890346	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	0.260	+/-0.346	0.588	1.00	pCi/g		KXX2 08/12/09	1030	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0080RadS001
Sample ID: 234325004
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			76.5	(25%–125%)

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 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0081RadS001
Sample ID: 234325005
Matrix: Soil
Collect Date: 29-JUL-09 11:10
Receive Date: 30-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0281	+/-0.114	0.196		pCi/g		MXR108/01/09	1336	889722	1
Cesium-134 13967709	UI	0.00	+/-0.0551	0.0598		pCi/g					
Cesium-137 10045973	U	-0.0104	+/-0.0237	0.0405	0.050	pCi/g					
Cobalt-60 10198400	U	-0.0187	+/-0.0248	0.039		pCi/g					
Europium-152 14683239	U	0.000825	+/-0.0577	0.102		pCi/g					
Europium-154 15585101	U	0.0143	+/-0.0837	0.144		pCi/g					
Manganese-54 13966319	U	-0.0107	+/-0.0235	0.039		pCi/g					
Potassium-40 13966002		23.6	+/-2.03	0.325		pCi/g					
Sodium-22 13966320	U	0.00471	+/-0.0298	0.0511		pCi/g					
Thorium-228 14274829		1.41	+/-0.148	0.0607		pCi/g					
Thorium-232 7440291		1.18	+/-0.241	0.133		pCi/g					
Uranium-235 15117961	U	0.0242	+/-0.133	0.234		pCi/g					
Uranium-238 7440611		1.60	+/-1.53	1.57		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0142	+/-0.017	0.0287	0.050	pCi/g		JXR1 08/11/09	0952	890346	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.198	+/-0.479	0.928	1.00	pCi/g		KXX2 08/11/09	0548	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Address : 3061 West 92nd Ave
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0081RadS001
Sample ID: 234325005
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1539	889566				

The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	EML HASL 300, 4.5.2.3		
2	EPA 905.0 Modified		
3	EPA 906.0 Modified		

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			84.1	(25%–125%)

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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0086RadS001
Sample ID: 234325006
Matrix: Soil
Collect Date: 29-JUL-09 09:39
Receive Date: 30-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0995	+/-0.0861	0.140		pCi/g		MXR108/01/09	1337	889722	1
Cesium-134 13967709	U	0.0577	+/-0.0324	0.0594		pCi/g					
Cesium-137 10045973	U	0.0101	+/-0.0252	0.043	0.050	pCi/g					
Cobalt-60 10198400	U	0.00238	+/-0.0241	0.0404		pCi/g					
Europium-152 14683239	U	0.0103	+/-0.0672	0.103		pCi/g					
Europium-154 15585101	U	0.0322	+/-0.0777	0.134		pCi/g					
Manganese-54 13966319	U	0.0146	+/-0.0238	0.0423		pCi/g					
Potassium-40 13966002		22.0	+/-1.80	0.335		pCi/g					
Sodium-22 13966320	U	0.0121	+/-0.0277	0.0477		pCi/g					
Thorium-228 14274829		1.35	+/-0.127	0.0598		pCi/g					
Thorium-232 7440291		1.41	+/-0.229	0.147		pCi/g					
Uranium-235 15117961	U	0.0445	+/-0.137	0.228		pCi/g					
Uranium-238 7440611	U	1.08	+/-0.849	1.23		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.000108	+/-0.0164	0.0334	0.050	pCi/g		JXR1 08/11/09	1438	890346	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.0265	+/-0.511	0.951	1.00	pCi/g		KXK2 08/11/09	0620	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0086RadS001
Sample ID: 234325006
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			66.8	(25%–125%)

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Certificate of Analysis

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 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0087RadS001
Sample ID: 234325007
Matrix: Soil
Collect Date: 29-JUL-09 09:39
Receive Date: 30-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0587	+/-0.119	0.187		pCi/g		MXR108/01/09	1337	889722	1	
Cesium-134 13967709	UI	0.00	+/-0.0406	0.064		pCi/g						
Cesium-137 10045973	U	0.0416	+/-0.0345	0.0431	0.050	pCi/g						
Cobalt-60 10198400	U	-0.00714	+/-0.0259	0.0418		pCi/g						
Europium-152 14683239	U	-0.0939	+/-0.0866	0.104		pCi/g						
Europium-154 15585101	U	-0.00591	+/-0.0832	0.137		pCi/g						
Manganese-54 13966319	U	-0.00633	+/-0.0254	0.0429		pCi/g						
Potassium-40 13966002		23.4	+/-2.23	0.324		pCi/g						
Sodium-22 13966320	U	-0.00146	+/-0.0297	0.0491		pCi/g						
Thorium-228 14274829		1.42	+/-0.122	0.0621		pCi/g						
Thorium-232 7440291		1.38	+/-0.274	0.148		pCi/g						
Uranium-235 15117961	U	-0.0782	+/-0.158	0.253		pCi/g						
Uranium-238 7440611	U	1.01	+/-0.980	1.59		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	3.85E-05	+/-0.0223	0.0397	0.050	pCi/g		JXR1	08/08/09	0732	890346	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.00	+/-0.516	0.955	1.00	pCi/g		KXX2	08/11/09	0653	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Certificate of Analysis

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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0087RadS001
Sample ID: 234325007
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			81.9	(25%–125%)

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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0088RadS001
Sample ID: 234325008
Matrix: Soil
Collect Date: 29-JUL-09 09:53
Receive Date: 30-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0917	+/-0.115	0.191		pCi/g		MXR	108/01/09	1409	889722	1
Cesium-134 13967709	UI	0.00	+/-0.0419	0.0583		pCi/g						
Cesium-137 10045973	U	-0.0187	+/-0.0256	0.0429	0.050	pCi/g						
Cobalt-60 10198400	U	0.00462	+/-0.0233	0.0407		pCi/g						
Europium-152 14683239	U	0.0371	+/-0.0645	0.111		pCi/g						
Europium-154 15585101	U	0.000284	+/-0.0797	0.138		pCi/g						
Manganese-54 13966319	U	0.0128	+/-0.0249	0.044		pCi/g						
Potassium-40 13966002		22.8	+/-1.95	0.363		pCi/g						
Sodium-22 13966320	U	-0.00158	+/-0.0282	0.0485		pCi/g						
Thorium-228 14274829		1.25	+/-0.114	0.0622		pCi/g						
Thorium-232 7440291		1.41	+/-0.236	0.144		pCi/g						
Uranium-235 15117961	U	0.0915	+/-0.145	0.252		pCi/g						
Uranium-238 7440611	U	1.25	+/-1.22	1.55		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.00507	+/-0.0218	0.0381	0.050	pCi/g		JXR	108/08/09	0732	890346	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.155	+/-0.342	0.598	1.00	pCi/g		KXK	208/12/09	1132	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0088RadS001
Sample ID: 234325008
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			85.2	(25%–125%)

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Company : MECx, LLC
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 Westminster, Colorado 80031
 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0089RadS001	Project:	SSFL00153
Sample ID:	234325009	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	29-JUL-09 09:49		
Receive Date:	30-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0465	+/-0.101	0.166		pCi/g		MXR108/01/09	1410	889722	1
Cesium-134 13967709	U	0.0371	+/-0.0532	0.0609		pCi/g					
Cesium-137 10045973	U	0.00158	+/-0.0276	0.0449	0.050	pCi/g					
Cobalt-60 10198400	U	0.00226	+/-0.0274	0.0461		pCi/g					
Europium-152 14683239	U	-0.037	+/-0.0663	0.0957		pCi/g					
Europium-154 15585101	U	0.0414	+/-0.0816	0.143		pCi/g					
Manganese-54 13966319	U	0.00636	+/-0.0257	0.0438		pCi/g					
Potassium-40 13966002		21.7	+/-1.88	0.388		pCi/g					
Sodium-22 13966320	U	0.0167	+/-0.0292	0.0512		pCi/g					
Thorium-228 14274829		1.30	+/-0.115	0.0549		pCi/g					
Thorium-232 7440291		1.19	+/-0.253	0.143		pCi/g					
Uranium-235 15117961	U	0.0389	+/-0.138	0.226		pCi/g					
Uranium-238 7440611	U	0.486	+/-1.22	1.33		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0103	+/-0.0272	0.0471	0.050	pCi/g		JXR1 08/08/09	0733	890346	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.0415	+/-0.528	0.943	1.00	pCi/g		KXK2 08/12/09	1753	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Contact : Ms. Kim Schultz
Project : **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0089RadS001
Sample ID: 234325009
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			69.0	(25%–125%)

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 Westminster, Colorado 80031
 Contact: Ms. Kim Schultz
 Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0084RadS001	Project:	SSFL00153
Sample ID:	234325010	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	29-JUL-09 10:31		
Receive Date:	30-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium-241 14596-10-2	U	0.0579	+/-0.0415	0.0708		pCi/g		MXR108/01/09	1414	889722	1
Cesium-134 13967709	UI	0.00	+/-0.0369	0.063		pCi/g					
Cesium-137 10045973	U	0.00972	+/-0.0292	0.0503	0.050	pCi/g					
Cobalt-60 10198400	U	-0.00514	+/-0.0267	0.0436		pCi/g					
Europium-152 14683239	U	-0.0612	+/-0.0718	0.109		pCi/g					
Europium-154 15585101	U	0.018	+/-0.0856	0.145		pCi/g					
Manganese-54 13966319	U	-9.41E-05	+/-0.0263	0.0458		pCi/g					
Potassium-40 13966002		21.9	+/-1.76	0.353		pCi/g					
Sodium-22 13966320	U	0.00553	+/-0.0306	0.0517		pCi/g					
Thorium-228 14274829		1.45	+/-0.170	0.0627		pCi/g					
Thorium-232 7440291		1.45	+/-0.259	0.152		pCi/g					
Uranium-235 15117961	U	0.0773	+/-0.134	0.241		pCi/g					
Uranium-238 7440611		1.71	+/-0.719	0.722		pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium-90 10098972	U	0.00833	+/-0.0263	0.0455	0.050	pCi/g		JXR1 08/08/09	0733	890346	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028-17-8	U	0.124	+/-0.529	0.954	1.00	pCi/g		KXX2 08/11/09	0830	890445	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0084RadS001
Sample ID: 234325010
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			72.2	(25%–125%)

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Company : MECx, LLC
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 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0085RadS001
Sample ID: 234325011
Matrix: Soil
Collect Date: 29-JUL-09 10:41
Receive Date: 30-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0558	+/-0.0431	0.0655		pCi/g		MXR108/01/09	1855	889722	1
Cesium-134 13967709	UI	0.00	+/-0.0435	0.0793		pCi/g					
Cesium-137 10045973	U	0.00143	+/-0.0315	0.054	0.050	pCi/g					
Cobalt-60 10198400	U	-0.0157	+/-0.034	0.0534		pCi/g					
Europium-152 14683239	U	-0.011	+/-0.0859	0.117		pCi/g					
Europium-154 15585101	U	-0.0414	+/-0.118	0.190		pCi/g					
Manganese-54 13966319	U	0.00229	+/-0.0327	0.0555		pCi/g					
Potassium-40 13966002		23.4	+/-2.35	0.478		pCi/g					
Sodium-22 13966320	U	-0.0145	+/-0.042	0.0676		pCi/g					
Thorium-228 14274829		1.63	+/-0.177	0.0627		pCi/g					
Thorium-232 7440291		1.66	+/-0.301	0.183		pCi/g					
Uranium-235 15117961	U	0.119	+/-0.137	0.227		pCi/g					
Uranium-238 7440611		1.68	+/-0.616	0.635		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0419	+/-0.0261	0.0419	0.050	pCi/g		JXR1 08/08/09	0733	890346	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.0553	+/-0.529	0.990	1.00	pCi/g		KXX2 08/11/09	0903	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0085RadS001
Sample ID: 234325011
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			77.6	(25%–125%)

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Address : 3061 West 92nd Ave
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Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0090RadS001
Sample ID: 234325012
Matrix: Soil
Collect Date: 29-JUL-09 11:05
Receive Date: 30-JUL-09
Collector: Client
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.057	+/-0.0386	0.0635		pCi/g		MXR108/01/09	1856	889722	1
Cesium-134 13967709	UI	0.00	+/-0.0316	0.059		pCi/g					
Cesium-137 10045973		0.0578	+/-0.0398	0.0413	0.050	pCi/g					
Cobalt-60 10198400	U	-0.0252	+/-0.0295	0.0376		pCi/g					
Europium-152 14683239	U	-0.0256	+/-0.0765	0.0997		pCi/g					
Europium-154 15585101	U	0.0491	+/-0.0803	0.138		pCi/g					
Manganese-54 13966319	U	0.0063	+/-0.0235	0.0408		pCi/g					
Potassium-40 13966002		19.1	+/-1.45	0.353		pCi/g					
Sodium-22 13966320	U	0.0133	+/-0.0288	0.0491		pCi/g					
Thorium-228 14274829		1.40	+/-0.163	0.0564		pCi/g					
Thorium-232 7440291		1.03	+/-0.201	0.141		pCi/g					
Uranium-235 15117961	U	0.129	+/-0.169	0.202		pCi/g					
Uranium-238 7440611		1.66	+/-0.631	0.607		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0299	+/-0.0272	0.0451	0.050	pCi/g		JXR1 08/08/09	0734	890346	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.0613	+/-0.484	0.898	1.00	pCi/g		KXX2 08/11/09	0935	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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Address : 3061 West 92nd Ave
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Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0090RadS001
Sample ID: 234325012
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			72.2	(25%–125%)

GEL LABORATORIES LLC

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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0091RadS001
Sample ID: 234325013
Matrix: Soil
Collect Date: 29-JUL-09 11:16
Receive Date: 30-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0361	+/-0.0405	0.0691		pCi/g			MXR108/03/09	1041	889722	1
Cesium-134 13967709	UI	0.00	+/-0.0506	0.0629		pCi/g						
Cesium-137 10045973		0.0611	+/-0.0403	0.044	0.050	pCi/g						
Cobalt-60 10198400	U	-0.0113	+/-0.0298	0.0432		pCi/g						
Europium-152 14683239	U	0.0209	+/-0.0685	0.109		pCi/g						
Europium-154 15585101	U	-0.0475	+/-0.0897	0.145		pCi/g						
Manganese-54 13966319	U	0.00143	+/-0.0246	0.043		pCi/g						
Potassium-40 13966002		23.1	+/-1.79	0.413		pCi/g						
Sodium-22 13966320	U	-0.0223	+/-0.0324	0.0516		pCi/g						
Thorium-228 14274829		1.48	+/-0.171	0.0583		pCi/g						
Thorium-232 7440291		1.48	+/-0.252	0.140		pCi/g						
Uranium-235 15117961	U	0.170	+/-0.140	0.243		pCi/g						
Uranium-238 7440611		1.10	+/-0.648	0.689		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0272	+/-0.0283	0.0472	0.050	pCi/g		JXR1	08/08/09	0734	890346	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	-0.183	+/-0.513	0.987	1.00	pCi/g		KXK2	08/11/09	1013	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0091RadS001
Sample ID: 234325013
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			69.0	(25%–125%)

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Certificate of Analysis

Company : MECx, LLC
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 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0092RadS001
Sample ID: 234325014
Matrix: Soil
Collect Date: 29-JUL-09 11:28
Receive Date: 30-JUL-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.00232	+/-0.132	0.235		pCi/g		MXR108/03/09	1042	889722	1
Cesium-134 13967709	UI	0.00	+/-0.0449	0.0542		pCi/g					
Cesium-137 10045973		0.0743	+/-0.0305	0.0407	0.050	pCi/g					
Cobalt-60 10198400	U	0.013	+/-0.0244	0.0435		pCi/g					
Europium-152 14683239	U	0.0267	+/-0.0564	0.0945		pCi/g					
Europium-154 15585101	U	0.0351	+/-0.0722	0.128		pCi/g					
Manganese-54 13966319	U	0.0129	+/-0.0202	0.036		pCi/g					
Potassium-40 13966002		24.1	+/-2.29	0.337		pCi/g					
Sodium-22 13966320	U	0.009	+/-0.026	0.0457		pCi/g					
Thorium-228 14274829		1.32	+/-0.117	0.054		pCi/g					
Thorium-232 7440291		1.43	+/-0.246	0.118		pCi/g					
Uranium-235 15117961	U	0.0622	+/-0.125	0.216		pCi/g					
Uranium-238 7440611	U	0.626	+/-1.31	1.80		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0264	+/-0.0247	0.041	0.050	pCi/g		JXR1 08/08/09	0735	890346	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	0.0279	+/-0.537	0.951	1.00	pCi/g		KXK2 08/12/09	1916	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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GEL LABORATORIES LLC

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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0092RadS001
Sample ID: 234325014
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			78.7	(25%–125%)

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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID:	ISWC0093RadS001	Project:	SSFL00153
Sample ID:	234325015	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	29-JUL-09 11:31		
Receive Date:	30-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0458	+/-0.0866	0.142		pCi/g		MXR108/03/09	1045	889722	1
Cesium-134 13967709	UI	0.00	+/-0.0395	0.0557		pCi/g					
Cesium-137 10045973	U	0.0124	+/-0.0255	0.0441	0.050	pCi/g					
Cobalt-60 10198400	U	-1.38E-05	+/-0.0259	0.0412		pCi/g					
Europium-152 14683239	U	0.0389	+/-0.0835	0.105		pCi/g					
Europium-154 15585101	U	0.0427	+/-0.0726	0.127		pCi/g					
Manganese-54 13966319	U	-0.00855	+/-0.024	0.0408		pCi/g					
Potassium-40 13966002		24.0	+/-1.87	0.338		pCi/g					
Sodium-22 13966320	U	0.015	+/-0.0258	0.0451		pCi/g					
Thorium-228 14274829		1.53	+/-0.139	0.059		pCi/g					
Thorium-232 7440291		1.59	+/-0.237	0.130		pCi/g					
Uranium-235 15117961	U	0.0246	+/-0.143	0.244		pCi/g					
Uranium-238 7440611		1.82	+/-0.954	1.30		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0273	+/-0.0216	0.0333	0.050	pCi/g		JXR1 08/08/09	0735	890346	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.331	+/-0.483	0.963	1.00	pCi/g		KXK2 08/11/09	1118	890445	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 13, 2009

Client Sample ID: ISWC0093RadS001
Sample ID: 234325015
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	07/30/09	1539	889566			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			94.9	(25%–125%)

GEL LABORATORIES LLC

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

QC Summary

Report Date: August 13, 2009

Page 1 of 4

MECx, LLC
3061 West 92nd Ave
#10-D
Westminster, Colorado

Contact: Ms. Kim Schultz
Workorder: 234325

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	889722										
QC1201892091	234324001 DUP										
Americium-241	U	0.0183	U	0.023	pCi/g	23.1			N/A	MXR1	08/03/09 10:47
		+/-0.0745		+/-0.0367							
Cesium-134	U	0.0463	UI	0.00	pCi/g	83.7			N/A		
		+/-0.0345		+/-0.0583							
Cesium-137		0.0744		0.0761	pCi/g	2.23		(0% - 100%)			
		+/-0.0337		+/-0.0439							
Cobalt-60	U	0.00563	U	-0.0174	pCi/g	391			N/A		
		+/-0.0197		+/-0.034							
Europium-152	U	-0.10	U	0.012	pCi/g	255			N/A		
		+/-0.0773		+/-0.0711							
Europium-154	U	0.0102	U	-0.0845	pCi/g	255			N/A		
		+/-0.0674		+/-0.0848							
Manganese-54	U	0.00855	U	0.0209	pCi/g	83.8			N/A		
		+/-0.0187		+/-0.0269							
Potassium-40		23.8		22.6	pCi/g	5.21		(0% - 20%)			
		+/-1.94		+/-1.71							
Sodium-22	U	0.00302	U	-0.0294	pCi/g	246			N/A		
		+/-0.024		+/-0.0302							
Thorium-228		1.12		1.13	pCi/g	1.16		(0% - 20%)			
		+/-0.0984		+/-0.118							
Thorium-232		1.20		1.15	pCi/g	3.74		(0% - 20%)			
		+/-0.194		+/-0.233							
Uranium-235	U	0.0781	U	0.213	pCi/g	92.7			N/A		
		+/-0.112		+/-0.202							
Uranium-238	U	0.844		0.901	pCi/g	6.60		(0% - 100%)			
		+/-0.886		+/-0.702							
QC1201892092	LCS										
Americium-241	15.9			14.0	pCi/g		87.7	(75%-125%)			08/01/09 16:19
				+/-1.18							
Cesium-134			U	0.0429	pCi/g						
				+/-0.0816							
Cesium-137	5.63			5.85	pCi/g		104	(75%-125%)			
				+/-0.542							
Cobalt-60	6.86			6.92	pCi/g		101	(75%-125%)			
				+/-0.516							
Europium-152			U	0.0392	pCi/g						
				+/-0.170							
Europium-154			U	0.0123	pCi/g						
				+/-0.126							

GEL LABORATORIES LLC

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QC Summary

Workorder: 234325

Page 2 of 4

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	889722										
Manganese-54			U	0.0694	pCi/g						
				+/-0.0666							
Potassium-40				0.942	pCi/g				MXR1	08/01/09	16:19
				+/-0.491							
Sodium-22			U	0.00233	pCi/g						
				+/-0.0455							
Thorium-228				1.18	pCi/g						
				+/-0.177							
Thorium-232				1.10	pCi/g						
				+/-0.463							
Uranium-235			U	0.169	pCi/g						
				+/-0.290							
Uranium-238			U	-0.485	pCi/g						
				+/-1.67							
QC1201892090	MB										
Americium-241			U	-0.00176	pCi/g					08/03/09	10:47
				+/-0.0369							
Cesium-134			U	0.00226	pCi/g						
				+/-0.0132							
Cesium-137			U	0.0132	pCi/g						
				+/-0.0144							
Cobalt-60			U	0.00956	pCi/g						
				+/-0.0119							
Europium-152			U	0.0279	pCi/g						
				+/-0.0279							
Europium-154			U	0.0227	pCi/g						
				+/-0.0308							
Manganese-54			U	-0.000319	pCi/g						
				+/-0.0101							
Potassium-40			U	0.220	pCi/g						
				+/-0.213							
Sodium-22			U	0.00777	pCi/g						
				+/-0.0109							
Thorium-228			U	0.00712	pCi/g						
				+/-0.0249							
Thorium-232			U	-0.00521	pCi/g						
				+/-0.0519							
Uranium-235			U	-0.00827	pCi/g						
				+/-0.0668							
Uranium-238			U	0.0252	pCi/g						
				+/-0.549							
Rad Gas Flow											
Batch	890346										
QC1201893564	234325005 DUP										
Strontium-90	U	0.0142	U	0.00615	pCi/g	0.00			N/A JXR1	08/08/09	07:31

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

QC Summary

Workorder: 234325

Page 3 of 4

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	890346										
QC1201893566	LCS			+/-0.017							
Strontium-90	2.76			2.71	pCi/g		98.4	(75%-125%)	JXR1	08/07/09	10:54
				+/-0.163							
QC1201893563	MB										
Strontium-90			U	0.0213	pCi/g					08/08/09	07:31
				+/-0.0212							
QC1201893565	234325005	MS									
Strontium-90	2.77		U	0.0142	pCi/g		109	(75%-125%)		08/07/09	10:54
				+/-0.017							
				+/-0.169							
Rad Liquid Scintillation											
Batch	890445										
QC1201893858	LCS										
Tritium	11.3			11.1	pCi/g		98.5	(75%-125%)	KXX2	08/11/09	12:23
				+/-1.72							
QC1201895840	LCSD										
Tritium	11.3			13.3	pCi/g	18.0	118	(0%-20%)		08/11/09	12:41
				+/-1.90							
QC1201893855	MB										
Tritium			U	-0.354	pCi/g					08/11/09	11:51
				+/-0.473							

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.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GEL LABORATORIES LLC

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

QC Summary

Workorder: 234325

Page 4 of 4

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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.



February 25, 2010

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

Re: ISRA Outfall 008
Project Name: ISRA Outfall 008
Work Order: 234376
SDG: 234376

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 31, 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
Chain of Custody:
Enclosures

IRVINE
17461 Section Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

GEL LABS
2040 SANGRE RD.
CHARLESTON, SC 29407
(843) 719-7308

234376
Chain of Custody Record

GEL AR TEST AMERICA
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.
COC No: 1 of 1 COCs

Client Contact
The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304
Phone
FAX
Project Name: ISRA - HV Waste Characterization
Site: Happy Valley
P O # 7KSSISRA

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873
Analysis Turnaround Time
Calendar (C) or Work Days (W) W
TAT if different from Below
 2 weeks **10 DAYS**
 1 week
 2 days
 1 day

Site Contact: Shelby Valenzuela
Lab Contact: Joe Deak
Date: **7-30-09**
Carrier: **FEDEX**

Job No.: 1891614
SDG No.:

Sample Identification

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
15NC0048A Rad 5001	7-30-09	9:24	SLEEVE	SOIL	1
15NC0005A Rad 5001		9:46			
15NC0006A Rad 5001		9:57			
15NC0002 Rad 5001		10:14			
15NC0083 Rad 5001		10:29			

Sample Specific Notes:

7-30-09
AR

Preservation Used: 1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: ~~From S&P (4/15/99) TO: P&I if HPLC results > 10x S&P C/30x P&I & H results~~

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For 6 Months

Relinquished by: *Allyson M. Rastota* Company: **MNH** Date/Time: **7/30/09 11:40**
Received by: *K.M. Adeling* Company: **Gel** Date/Time: **7/31/09 8:40**

Relinquished by: _____ Company: _____ Date/Time: _____
Received by: _____ Company: _____ Date/Time: _____

RAD CHEM COMPOUND LIST PER E-MAIL 7/28/09



SAMPLE RECEIPT & REVIEW FORM

Client: SFI			SDG/ARCOC/Work Order:		
Received By: Rms			Date Received: 7/31/09		
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?			✓	Maximum Counts Observed*:	
Classified Radioactive II or III by RSO?			✓	20cpm	
COC/Samples marked containing PCBs?			✓		
Shipped as a DOT Hazardous?			✓	Hazard Class Shipped: UN#:	
Samples identified as Foreign Soil?			✓		

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

Comments:

Fx: 9457 3158 0650

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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID:	ISWC0082RadS001	Project:	SSFL00153
Sample ID:	234376004	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	30-JUL-09 10:14		
Receive Date:	31-JUL-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0519	+/-0.140	0.241		pCi/g		MXR108/03/09	1238	890060	1	
Cesium-134 13967709	UI	0.00	+/-0.0464	0.0587		pCi/g						
Cesium-137 10045973		0.076	+/-0.0434	0.0391	0.050	pCi/g						
Cobalt-60 10198400	U	0.0117	+/-0.0248	0.0442		pCi/g						
Europium-152 14683239	U	0.0142	+/-0.0595	0.0944		pCi/g						
Europium-154 15585101	U	-0.0536	+/-0.0733	0.120		pCi/g						
Manganese-54 13966319	U	0.00713	+/-0.0221	0.0389		pCi/g						
Potassium-40 13966002		23.9	+/-1.97	0.336		pCi/g						
Sodium-22 13966320	U	-0.0221	+/-0.0261	0.0423		pCi/g						
Thorium-228 14274829		1.54	+/-0.141	0.0572		pCi/g						
Thorium-232 7440291		1.45	+/-0.232	0.130		pCi/g						
Uranium-235 15117961	U	0.0678	+/-0.121	0.218		pCi/g						
Uranium-238 7440611	U	0.392	+/-1.47	1.89		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.000193	+/-0.0153	0.0306	0.050	pCi/g		JXR1	08/11/09	1438	890346	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.217	+/-0.391	0.677	1.00	pCi/g		EXK2	08/11/09	2352	890461	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0082RadS001
Sample ID: 234376004
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			CXC1	07/31/09	1500	889938			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			78.7	(25%–125%)

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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0083RadS001
Sample ID: 234376005
Matrix: Soil
Collect Date: 30-JUL-09 10:29
Receive Date: 31-JUL-09
Collector: Client
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	-0.0451	+/-0.0703	0.112		pCi/g		MXR1	08/03/09	1309	890060	1
Cesium-134 13967709	UI	0.00	+/-0.0425	0.0616		pCi/g						
Cesium-137 10045973	UI	0.00	+/-0.0279	0.053	0.050	pCi/g						
Cobalt-60 10198400	U	-0.0193	+/-0.0257	0.0409		pCi/g						
Europium-152 14683239	U	-0.0594	+/-0.0702	0.101		pCi/g						
Europium-154 15585101	U	-0.0204	+/-0.0771	0.129		pCi/g						
Manganese-54 13966319	U	0.00748	+/-0.0252	0.0434		pCi/g						
Potassium-40 13966002		26.0	+/-2.46	0.355		pCi/g						
Sodium-22 13966320	U	-0.0116	+/-0.0277	0.0458		pCi/g						
Thorium-228 14274829		1.64	+/-0.170	0.0583		pCi/g						
Thorium-232 7440291		1.47	+/-0.256	0.141		pCi/g						
Uranium-235 15117961	U	0.125	+/-0.137	0.240		pCi/g						
Uranium-238 7440611		2.46	+/-1.23	0.989		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972		0.0378	+/-0.0236	0.0348	0.050	pCi/g		JXR1	08/11/09	1438	890346	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.0694	+/-0.379	0.677	1.00	pCi/g		EXK2	08/12/09	0044	890461	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
--------	-------------	---------	------	------	------------

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 HV Waste Characterization**

Report Date: August 14, 2009

Client Sample ID: ISWC0083RadS001
Sample ID: 234376005
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			CXC1	07/31/09	1500	889938			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			77.6	(25%–125%)

GEL LABORATORIES LLC

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

QC Summary

Report Date: August 14, 2009

Page 1 of 4

MECx, LLC
3061 West 92nd Ave
#10-D
Westminster, Colorado

Contact: Ms. Kim Schultz

Workorder: 234376

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	890060										
QC1201892817	234376004 DUP										
Americium-241	U	0.0519	UI	0.00	pCi/g	43.7		N/A	MXR1	08/03/09	16:46
		+/-0.140		+/-0.0328							
Cesium-134	UI	0.00	UI	0.00	pCi/g	21.2		N/A			
		+/-0.0464		+/-0.0293							
Cesium-137		0.076		0.107	pCi/g	33.9		(0% - 100%)			
		+/-0.0434		+/-0.0256							
Cobalt-60	U	0.0117	U	0.0029	pCi/g	120		N/A			
		+/-0.0248		+/-0.0205							
Europium-152	U	0.0142	U	-0.0223	pCi/g	906		N/A			
		+/-0.0595		+/-0.0528							
Europium-154	U	-0.0536	U	-0.00613	pCi/g	159		N/A			
		+/-0.0733		+/-0.0607							
Manganese-54	U	0.00713	U	0.00814	pCi/g	13.2		N/A			
		+/-0.0221		+/-0.0179							
Potassium-40		23.9		23.7	pCi/g	0.924		(0% - 20%)			
		+/-1.97		+/-1.63							
Sodium-22	U	-0.0221	U	-0.00172	pCi/g	171		N/A			
		+/-0.0261		+/-0.0216							
Thorium-228		1.54		1.54	pCi/g	0.325		(0% - 20%)			
		+/-0.141		+/-0.141							
Thorium-232		1.45		1.55	pCi/g	6.20		(0% - 20%)			
		+/-0.232		+/-0.221							
Uranium-235	U	0.0678	U	0.058	pCi/g	15.5		N/A			
		+/-0.121		+/-0.119							
Uranium-238	U	0.392		0.998	pCi/g	87.2		(0% - 100%)			
		+/-1.47		+/-0.418							
QC1201892818	LCS										
Americium-241	15.9			13.3	pCi/g		83.5	(75%-125%)		08/03/09	13:35
				+/-1.36							
Cesium-134			U	0.0522	pCi/g						
				+/-0.101							
Cesium-137	5.63			5.94	pCi/g		105	(75%-125%)			
				+/-0.403							
Cobalt-60	6.85			6.72	pCi/g		98.1	(75%-125%)			
				+/-0.578							
Europium-152			U	0.0207	pCi/g						
				+/-0.198							
Europium-154			U	-0.031	pCi/g						
				+/-0.162							

GEL LABORATORIES LLC

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

QC Summary

Workorder: 234376

Page 2 of 4

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	890060										
Manganese-54			U	-0.00868 +/-0.0799	pCi/g						
Potassium-40			U	0.606 +/-0.601	pCi/g				MXR1	08/03/09	13:35
Sodium-22			U	-0.0102 +/-0.0576	pCi/g						
Thorium-228				0.912 +/-0.171	pCi/g						
Thorium-232				1.05 +/-0.648	pCi/g						
Uranium-235			U	-0.0898 +/-0.324	pCi/g						
Uranium-238			U	-0.347 +/-2.49	pCi/g						
QC1201892816	MB										
Americium-241			U	-0.00968 +/-0.0493	pCi/g					08/03/09	13:10
Cesium-134			U	-0.00336 +/-0.0129	pCi/g						
Cesium-137			U	0.0075 +/-0.012	pCi/g						
Cobalt-60			U	-0.00294 +/-0.0114	pCi/g						
Europium-152			U	-0.0256 +/-0.032	pCi/g						
Europium-154			U	0.0289 +/-0.0354	pCi/g						
Manganese-54			U	-0.00736 +/-0.0105	pCi/g						
Potassium-40			U	-0.0521 +/-0.167	pCi/g						
Sodium-22			U	0.0104 +/-0.0126	pCi/g						
Thorium-228			U	0.0117 +/-0.0322	pCi/g						
Thorium-232			U	0.00994 +/-0.0479	pCi/g						
Uranium-235			U	-0.0445 +/-0.0765	pCi/g						
Uranium-238			U	0.186 +/-0.599	pCi/g						
Rad Gas Flow											
Batch	890346										
QC1201893564	234325005 DUP										
Strontium-90	U	0.0142	U	0.00615	pCi/g	0.00			N/A	JXR1	08/08/09 07:31

GEL LABORATORIES LLC

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

QC Summary

Workorder: 234376

Page 3 of 4

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	890346										
QC1201893566	LCS			+/-0.017							
Strontium-90	2.76			+/-0.0237							
				2.71	pCi/g		98.4	(75%-125%)	JXR1	08/07/09	10:54
				+/-0.163							
QC1201893563	MB										
Strontium-90			U	0.0213	pCi/g					08/08/09	07:31
				+/-0.0212							
QC1201893565	234325005	MS									
Strontium-90	2.77	U	0.0142	3.03	pCi/g		109	(75%-125%)		08/07/09	10:54
			+/-0.017	+/-0.169							
Rad Liquid Scintillation											
Batch	890461										
QC1201893894	234376004	DUP									
Tritium		U	0.217	0.0367	pCi/g	0.00			N/A EXK2	08/12/09	02:29
			+/-0.391	+/-0.397							
QC1201893896	LCS										
Tritium	11.2			11.4	pCi/g		102	(75%-125%)		08/12/09	03:39
				+/-1.66							
QC1201893893	MB										
Tritium		U	0.181	0.181	pCi/g					08/13/09	09:38
				+/-0.383							
QC1201893895	234376004	MS									
Tritium	11.4	U	0.217	11.3	pCi/g		98.7	(75%-125%)		08/12/09	03:22
			+/-0.391	+/-1.70							

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: 234376

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.

IRVINE
17461 Devian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

234944H
299966

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test/America Laboratories, Inc.
COC No: _____
Job No: _____

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873
Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak

Date: 7-1-09
Carrier: CUBIER

Analysis Turnaround Time
Calendar: (C) or Work Days (W) C
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Project Name: ISRA IN WASTE CHARACTERIZATION
Site: Happy Valley
P O # 7KSSISRA

Sample Specific Notes:
151A - HV'S

Sample Identification
15NC0004501
15NC0003501
15NC0002501
15NC0001501
15NC0005501
15NC0006501
15NC0007501
15NC0008501

Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
7-1-09	08:53	S-S. SURVE	SOIL	1
7-1-09	09:16			1
7-1-09	09:37			1
7-1-09	09:55			1
7-1-09	10:04			1
7-1-09	10:29			1
7-1-09	10:48			1
7-1-09	11:01			1

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Preservation Used: (1= Ice; 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other)
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant

Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP if TLIC results \geq 10x STLC / 20x TCLP thresholds

Relinquished by: [Signature]
Relinquished by: [Signature]
Relinquished by: [Signature]

Received by: [Signature] Date/Time: 15/5 7/1/09
Received by: [Signature] Date/Time: 7-1-09 18:30
Received by: [Signature] Date/Time: 7/3/09

Company: AWA
Company: Test America
Company: TAT Inc.

Received by: [Signature] Date/Time: 7-1-09 15:00
Received by: [Signature] Date/Time: 7/1/09 18:00
Received by: [Signature] Date/Time: 7/22/09 9:00

Company: Test America
Company: Test America
Company: Gre

234944H
299966
TSC0119

Project Contact: Shelby Valenzuela
Lab Contact: Joe Doak

Job No: 1871614.05.152
SDG No: _____

Sample Specific Notes:
CAM 17 Metals
Press
7-1-09
7-1-09
7-1-09

234994H
TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record
 JSB0121

IRVINE
 17461 Dertian Ave
 Suite 100
 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299

Client Contact
 The Boeing Company SSFL
 5800 Woolsey Canyon Road
 Canoga Park, CA 91304
 Phone _____
 FAX _____
 Project Name: **ISRA - HV Waste Characterization**
 Site: Happy Valley
 P O # 7KSSISRA

Project Manager: Tom Venable
 Tel/Fax: 818-466-8779 / 818-466-4873
 Analysis Turnaround Time
 Calendar (C) or Work Days (W) C
 TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Shelby Valenzuela
 Lab Contact: Joe Doak
 Date: 7/1/09
 Carrier: CPA/MSX

TestAmerica Laboratories, Inc.
 COC No. _____ of _____ (COCs)
 JOB No. 137100110901
 SDG No. _____

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes
ISWC0033 S001	7/1/09	0833	ss.sme	sg/1	1	AMS 21b
ISWC0034 S001	"	0904			1	"
ISWC0035 S001	"	0922			1	"
ISWC0036 S001	"	0935			1	"
ISWC0037 S001	"	0953			1	"
ISWC0038 S001	"	1001			1	"
ISWC0039 S001	"	1016			1	"
ISWC0040 S001	"	0920			1	"

Special Instructions/QC Requirements & Comments: AMS 21b
 Preservation Used: (1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other)
 Non-Hazard Flammable Skin Irritant
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Month(s)

Relinquished by: [Signature]
Relinquished by: [Signature]
Relinquished by: [Signature]

Received by: [Signature]
Received by: [Signature]
Received by: [Signature]

Company: MSW
Company: Test America
Company: TA Inv.

Date/Time: 7/1/09 1605
Date/Time: 7/1/09 18:30
Date/Time: 7/1/09 18:30

277

2/22/09 9:00

Chain of Custody Record

IS60122

TestAmerica Laboratories, Inc.
COC No. of
Job No. / 871611 (100)
SDG No.

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873
Analysis Turnaround Time
Calendar (C) or Work Days (W) W
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Client Contact
The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304
Phone
FAX
Project Name: ISRA HV White Characterization
Site: Happy Valley - Canyon
PO # 7KSSISRA

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
ISCW0042 S001	7/1/05	1111	55. Stone Soil		1
ISCW0041 S001	"	1123	↓		1
ISCW0043 S001	"	1134	↓		1
ISCW0044 S001	"	1143	↓		1

Company	Date/Time	Received by
MWH	7/1/05 1505	Robert Cunniff
Test America	7-1-05 8:30	Test America
TA Inc.	7/1/05	TA Inc.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak

Sample Specific Notes:
CYN 1
" "
" "
" "

Preservation Used: Ice 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Volatile

Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP if FTLC results ≥ 10x STLC / 20x TCLP thresholds

Relinquished by:
Relinquished by:
Relinquished by:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Month(s)

Relinquished by:
Relinquished by:
Relinquished by:

Relinquished by:
Relinquished by:
Relinquished by:

Relinquished by:
Relinquished by:
Relinquished by:

Relinquished by:
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Relinquished by:
Relinquished by:

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Relinquished by:
Relinquished by:

Relinquished by:
Relinquished by:
Relinquished by:

234994H
TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

IS60123

Project Manager: Tom Venable
 Tel/Fax: 818-466-8779 / 818-466-4873
 Analysis Turnaround Time
 Calendar (C) or Work Days (W) C

TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes
7/10/09	1304	ss. sludge	soil	1	PRE-1
	1326			1	"
	1325			1	"
	1334			1	"
		peroxy			"

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
 Possible Hazard Identification: Non-Hazard Flammable Skin Irritant
 Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP if TTLC results ≥ 10x STLC / 20x TCLP thresholds

Site Contact: Shelby Valenzuela
 Lab Contact: Joe Doak
 Date: 7/10/09
 Carrier: *Patricia*
 Job No. of COC: 18911115
 SDG No.

Project Manager: Tom Venable
 Tel/Fax: 818-466-8779 / 818-466-4873
 Analysis Turnaround Time
 Calendar (C) or Work Days (W) C

TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes
7/10/09	1304	ss. sludge	soil	1	PRE-1
	1326			1	"
	1325			1	"
	1334			1	"
		peroxy			"

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
 Possible Hazard Identification: Non-Hazard Flammable Skin Irritant
 Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP if TTLC results ≥ 10x STLC / 20x TCLP thresholds

Site Contact: Shelby Valenzuela
 Lab Contact: Joe Doak
 Date: 7/10/09
 Carrier: *Patricia*
 Job No. of COC: 18911115
 SDG No.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month.)
 Return To Client Disposal By Lab Archive For () Months

Relinquished by: *[Signature]*
 Relinquished by: *[Signature]*
 Relinquished by: *[Signature]*

Company: MWH
 Company: Test America
 Company: *[Signature]*

Date/Time: 7/10/09 15:00
 Date/Time: 7/10/09 15:00
 Date/Time: 7/10/09 15:00

Relinquished by: *[Signature]*
 Relinquished by: *[Signature]*
 Relinquished by: *[Signature]*

Company: Test America
 Company: *[Signature]*
 Company: *[Signature]*

Date/Time: 7/10/09 15:00
 Date/Time: 7/10/09 15:00
 Date/Time: 7/10/09 15:00

IRVINE
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

2324994H
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact
The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304
Phone
FAX
Project Name: **ISRA HV WASTE CHARACTERIZATION**
Site: Happy Valley
P.O.# 7KSSISRA

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873
Analysis Turnaround Time
Calendar: (C) or Work Days (W) C
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak
Date: **7-1-09**
Carrier: **COURIER**

Job No. **1891014-054637**
SDG No.
COC No.
of COCs

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
15MC00205001	7-1-09	12:02	S-S. SIEVE SOIL		1
15MC00195001	7-1-09	12:30			1
15MC00235001	7-1-09	12:38			1
15MC00185001	7-1-09	12:48			1
15MC00225001	7-1-09	13:02			1
15MC00215001	7-1-09	13:12			1
15MC00175001	7-1-09	13:23			1
15MC00245001	7-1-09	13:33			1

Sample Specific Notes:
ISRA - HV - 200
CAM 17 Metals

Preservation Used: (1=Ice) 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP if TILC results ≥ 10x STLC / 20x TCLP thresholds

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Relinquished by: *[Signature]*
Relinquished by: *[Signature]*
Relinquished by: *[Signature]*

Company: **Test America**
Date/Time: **7/1/09 15:30**
Company: **TA Inc**
Date/Time: **7/24/09 12:00**
Company: **TA Inc**
Date/Time: **7/27/09 9:00**

Chain of Custody Record

IRVINE
 17461 Derian Ave
 Suite 100
 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299

Project Manager: Tom Venable
 Tel/Fax: 818-466-8779 / 818-466-4873

Site Contact: Shelby Valenzuela
 Lab Contact: Joe Doak

Project Name: PERA HV Waste Characterization
 Site: Happy Valley
 P.O.# 7KSSISRA

Client Contact
 The Boeing Company SSFL
 5800 Woolsey Canyon Road
 Canoga Park, CA 91304

Analysis Turnaround Time
 Calendar (C) or Work Days (W) e
 TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sample ID	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Analysis
ISWC0009	5001 (0.2-0.7')	7/1/09	0900	S	alluv	1	X
ISWC0010	5001 (0.3-0.6')	7/1/09	0930	S	alluv	1	X
ISWC0011	5001 (0-0.5')	7/1/09	0940	S	alluv	1	X
ISWC0012	5001 (1.1-1.6')	7/1/09	0940	S	alluv	1	X
ISWC0013	5001 (1.5'-2.0')	7/1/09	0915	S	alluv	1	X
ISWC0014	5001 (0-0.5', alluv)	7/1/09	1010	S	alluv	1	X
ISWC0015	5001 (0.0-0.5')	7/1/09	0950	S	alluv	1	X
ISWC0016	5001 (0-0.5')	7/1/09	0950	S	alluv	1	X

Sample Specific Notes:
 PERA - HV5-3
 7/1/09
 7/1/09

Special Instructions/QC Requirements & Comments: Run STLC (WE)/TCLP if TTLC results \geq 10x STLC / 20x TCLP thresholds

Preservation Used: (1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other)
 Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For 6 Months

Relinquished by: [Signature] Date/Time: 7/1/09 15:30
 Relinquished by: [Signature] Date/Time: 7/1/09 15:30
 Relinquished by: [Signature] Date/Time: 7/1/09 15:30

Company: Test America
 Company: Test America
 Company: Test America

Company: Test America
 Company: Test America
 Company: Test America

Company: Test America
 Company: Test America
 Company: Test America

2-78

Relinquished by: [Signature]
 Relinquished by: [Signature]
 Relinquished by: [Signature]

7/21/09 17:00
 R. E. Stelling
 17:00 (17:00)

Chain of Custody Record

IS60118

TestAmerica Laboratories, Inc.

Project Manager: Tom Venable Tel/Fax: 818-466-8779 / 818-466-4873		Site Contact: Shelby Valenzuela Lab Contact: Joe Dosk		Date: 7/1/09 Carrier: container			
Analysis Turnaround Time Calendar (C) or Work Days (W) <u>C</u>		TAT if different from below		COC No. of COC			
<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				Job No. 1591641.05452			
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes: 75KA-HV5-2A
ISWC0025 S001 (0-0.5')		7/1/09	1210	S	Soil	1	
ISWC0026 S001 (0.2-0.7')		7/1/09	1220	S	Soil	1	
ISWC0027 S001 (0.2-0.7')		7/1/09	1230	S	Soil	1	
ISWC0028 S001 (0.4-0.9')		7/1/09	1305	S	Soil	1	
ISWC0029 S001 (1.3-1.8')		7/1/09	1240	S	Soil	1	
ISWC0030 S001 (0.6-1.1')		7/1/09	1300	S	Soil	1	
ISWC0031 S001 (0.5-1.0')		7/1/09	1250	S	Soil	1	
ISWC0032 S001 (0.7-1.2')		7/1/09	1240	S	Soil	1	
				SP			

IRVINE
17461 Deitan Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Client Contact
The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304
Phone
FAX
Project Name: HERR Soil Waste Characterization
Site: Happy Valley
PO # 7KSSISRA

Preservation Used: (1=Ice/2=HC1; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other)
Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant
 Volatile
 Uptake
 Return To Client
 Disposal By Lab
 Archive For 6 Months

Special Instructions/QC Requirements & Comments: (Skin SYL/C (WET) / TCLP if TTLC results ≥ 10x SYL/C / 20x TCLP thresholds)

Relinquished by:	Company: MWH	Date/Time: 1/05 7/1/09	Received by:	Company: Test-America	Date/Time: 7/1/09/15:23
Relinquished by:	Company: Test-America	Date/Time: 7/1/09/18:30	Received by:	Company: ZAH	Date/Time: 7/1/09/18:30
Relinquished by:	Company: J.A. Baker	Date/Time: 7/1/09 17:10	Received by:	Company: GEL	Date/Time: 7/22/09 9:00

2077

0.001
0.001



SAMPLE RECEIPT & REVIEW FORM

234994H

Client: <u>SSF1</u>		SDG/ARCO/Work Order: <u>233955</u> <u>OT 8/11/09</u>	
Received By: <u>RMS</u>		Date Received: <u>7/22/09</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>40cpm</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>4c</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:

Fx: 7977 8177 6914

PM (or PMA) review: Initials JP Date 7/29/09

Subject: % moisture analysis

From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com>

Date: Mon, 10 Aug 2009 17:48:24 -0600

To: "jacqueline.trudell@gel.com" <jacqueline.trudell@gel.com>

CC: Sean Leffler <Sean.S.Leffler@us.mwhglobal.com>

Hi Jackie,

We would like to run % moisture on the following ISRA waste characterization samples you received from TestAmerica. The sample name in the left column is the ID of the sample you received from TestAmerica, the sample name in the right column is the revised ID that I would like the sample logged as.

Original Sample ID New ID

ISWC0007S001	HZBS0152S001
ISWC0008S001	HZBS0153S001
ISWC0017S001	HZBS0154S001
ISWC0018S001	HZBS0155S001
ISWC0021S001	HZBS0156S001
ISWC0022S001	HZBS0157S001
ISWC0025S001	HZBS0158S001
ISWC0026S001	HZBS0159S001
ISWC0027S001	HZBS0160S001
ISWC0029S001	HZBS0161S001
ISWC0030S001	HZBS0162S001
ISWC0031S001	HZBS0163S001
ISWC0032S001	HZBS0164S001
ISWC0033S001	HZBS0165S001
ISWC0034S001	HZBS0166S001
ISWC0035S001	HZBS0167S001
ISWC0036S001	HZBS0168S001
ISWC0037S001	HZBS0169S001
ISWC0038S001	HZBS0170S001
ISWC0039S001	HZBS0171S001
ISWC0040S001	HZBS0172S001

This data should follow the normal process - uploaded to EDMS,hard copy sent to MECX, etc.

Thanks,
Sarah

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0152S001	Project:	SSFL00153
Sample ID:	234994001	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 10:48		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	3.55%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	3.55				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0153S001	Project:	SSFL00153
Sample ID:	234994002	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 11:01		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	2.95%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	2.95				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0165S001	Project:	SSFL00153
Sample ID:	234994003	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 08:53		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	11.1%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	11.1				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0166S001	Project:	SSFL00153
Sample ID:	234994004	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 09:04		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	6.79%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	6.79				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0167S001	Project:	SSFL00153
Sample ID:	234994005	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 09:22		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	10.4%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	10.4				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0168S001	Project:	SSFL00153
Sample ID:	234994006	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 09:35		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	8.57%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	8.57				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0169S001	Project:	SSFL00153
Sample ID:	234994007	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 09:53		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	8.13%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	8.13				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0170S001	Project:	SSFL00153
Sample ID:	234994008	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 10:01		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	4.86%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	4.86				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0171S001	Project:	SSFL00153
Sample ID:	234994009	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 10:16		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	5.32%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	5.32				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0172S001	Project:	SSFL00153
Sample ID:	234994010	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 10:28		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	7.6%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	7.60				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0155S001	Project:	SSFL00153
Sample ID:	234994011	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 12:48		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	10.1%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	10.1				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0157S001	Project:	SSFL00153
Sample ID:	234994012	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 13:02		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	11.2%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture E-11870	H	11.2				percent		CXC1 08/11/09	1512	892842	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0156S001	Project:	SSFL00153
Sample ID:	234994013	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 13:12		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	3.44%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	3.44				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0154S001	Project:	SSFL00153
Sample ID:	234994014	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 13:23		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	7.62%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	7.62				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0158S001	Project:	SSFL00153
Sample ID:	234994015	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 12:10		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	10.5%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	-------------	------	-------	--------

Gravimetric Solids

ASTM D 2216 % Moisture "As Received"

Moisture	H	10.5				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0159S001	Project:	SSFL00153
Sample ID:	234994016	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 12:20		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	12.3%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	12.3				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0160S001	Project:	SSFL00153
Sample ID:	234994017	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 12:30		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	10.3%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	10.3				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0161S001	Project:	SSFL00153
Sample ID:	234994018	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 12:00		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	5.8%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	5.80				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0162S001	Project:	SSFL00153
Sample ID:	234994019	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 13:00		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	18.2%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	18.2				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0163S001	Project:	SSFL00153
Sample ID:	234994020	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 12:50		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	2.35%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	2.35				percent		CXC1 08/11/09	1512	892842	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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 HV Waste Characterization**

Report Date: August 12, 2009

Client Sample ID:	HZBS0164S001	Project:	SSFL00153
Sample ID:	234994021	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 12:40		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	3.18%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	3.18				percent		CXC1 08/11/09	1558	892841	1
E-11870											

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

GEL LABORATORIES LLC

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

QC Summary

Report Date: August 14, 2009
Page 1 of 2

MECx, LLC
3061 West 92nd Ave
#10-D
Westminster, Colorado

Contact: Ms. Kim Schultz

Workorder: 234994

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Gravimetric Solids											
Batch		892841									
		QC1201899397	235019001	DUP							
Moisture			90.9		91.0	percent	0.0878	(0%-20%)	CXC1	08/11/09	15:58
Batch		892842									
		QC1201899398	234994001	DUP							
Moisture	H		3.55	H	3.59	percent	1.24	(0%-20%)	CXC1	08/11/09	15:12

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.
- 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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 234994

Page 2 of 2

<u>Parmname</u>	<u>NOM</u>	<u>Sample</u>	<u>Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
-----------------	------------	---------------	-------------	-----------	--------------	-------------	-------------	--------------	--------------	-------------	-------------

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.

IRVINE

17461 Deivan Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

235397H
2359665 - JT 8/17/09

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.
COC No: 7-1-09
Job No: 1891614.05952
SDG: No.

Project Manager: Tom Venable
Tel/Fax: 818-466-8779/818-466-4873
Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak

Carrier: CUMMINS
Date: 7-1-09
of 1 (CO's)

Client Contact
The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304
Phone

Analysis Turnaround Time
Calendar (C) or Work Days (W) C
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Project Name: ISPA HX WASTE CHARACTERIZATION
Site: Happy Valley
P O # 7KSSISRA

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
ISNC00045001	7-1-09	08:53	S-S. SURVE	SOIL	1
ISNC00035001	7-1-09	09:16			1
ISNC00025001	7-1-09	09:37			1
ISNC00015001	7-1-09	09:55			1
ISNC00055001	7-1-09	10:04			1
ISNC00065001	7-1-09	10:29			1
ISNC00075001	7-1-09	10:48			1
ISNC00085001	7-1-09	11:01			1

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For 9 Months

Relinquished by: [Signature] Date/Time: 7/1/09 15:00
 Relinquished by: [Signature] Date/Time: 7/1/09 15:00
 Relinquished by: [Signature] Date/Time: 7/22/09 9:00

ISCO119

Press

7-1-09
CAR

7-1-09
CAR

27C

Sample Specific Notes:
ISPA - HX'S...
CAM 17 Metals

IRVINE

17461 Deitan Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

2353977H

Client Contact

The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304

Phone

FAX

Project Name: ESRA - HV Waste Characterization
Site: Happy Valley
PO # 7KSSISRA

Project Manager: Tom Venable

Tel/Fax: 818-466-8779 / 818-466-4873

Analyses Turnaround Time

Calendar (C) or Work Days (W) C

TAT if different from Below

- 2 weeks
- 1 week
- 2 days
- 1 day

Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak

Date: 7/1/09

Carrier: Compu

Test American Laboratories, Inc.

COC No:

of

(C/N)

Job No.

1871091126

SDG No.

Sample Identification

ISWC0033 S001
 ISWC0034 S001
 ISWC0035 S001
 ISWC0036 S001
 ISWC0037 S001
 ISWC0038 S001
 ISWC0039 S001
 ISWC0040 S001

Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
7/1/01	0853	ss slone soil	1	1
"	0904	"	"	"
"	0922	"	"	"
"	0935	"	"	"
"	0953	"	"	"
"	1001	"	"	"
"	1016	"	"	"
"	1028	"	"	"

Sample Specific Notes:

11/5/26

"

"

"

"

"

"

"

0.010
4/1/09

Preservation Used (1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other)

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant

Poison-B Unknown Return To Client Disposal By Lab Archive For _____ Month/s

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments: Rin STLC (WET) / TCLP if TILC results > 10x STLC / 20x TCLP thresholds

Relinquished by:

[Signature]

Relinquished by:

[Signature]

Relinquished by:

[Signature]

Company: MWH

Date/Time: 7/1/09 16:05

Received by: [Signature]

Company: Test America

Date/Time: 7-1-09 18:30

Received by: [Signature]

Company: TA Inc.

Date/Time: 7/1/09

Received by: R.M. Stelling

Company: Del

Date/Time: 7/22/09 9:00

Company: MWH

Date/Time: 7/1/09 16:05

Received by: [Signature]

Company: Test America

Date/Time: 7-1-09 18:30

Received by: [Signature]

Company: TA Inc.

Date/Time: 7/1/09

Received by: R.M. Stelling

Company: Del

Date/Time: 7/22/09 9:00

277

[Signature]
Test America
[Signature]
TA Inc.
Del

[Signature]
Test America
[Signature]
TA Inc.
Del

[Signature]
Test America
[Signature]
TA Inc.
Del

Chain of Custody Record

IRVINE
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Client Contact
The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304
Phone
FAX
Project Name: ISRA HV Work Characterization
Site: Happy Valley Canyon
PO # 7KSSISRA

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873
Calendar (C) or Work Days (W) C
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Shelby Valenzuela
Lab Contact: **Joe Doak**
Carrier: Bohner
Date: 7/1/04
Job No. 1891474
SDG No. 103

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
<u>ISCW0042 S001</u>	<u>7/1/05</u>	<u>1111</u>	<u>5.5 Stone</u>	<u>Soil</u>	<u>1</u>
<u>ISCW0041 S001</u>	<u>"</u>	<u>1123</u>	<u>↓</u>	<u>↓</u>	<u>1</u>
<u>ISCW0043 S001</u>	<u>"</u>	<u>1134</u>	<u>↓</u>	<u>↓</u>	<u>1</u>
<u>ISCW0044 S001</u>	<u>"</u>	<u>1143</u>	<u>↓</u>	<u>↓</u>	<u>1</u>

Sample Specific Notes:
CYN!
"
"
"

Preservation Used: Ice; 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison-B Unknown

Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP if TTLC results ≥ 10x STLC / 20x TCLP thresholds

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab 2 Months

Relinquished by: [Signature]
Relinquished by: Test America Date/Time: 7/1/04 15:00
Relinquished by: [Signature] Date/Time: 7/22/09 9:00

IRVINE

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

235397H

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact
The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873
Analysis Turnaround Time
Calendar (C) or Work Days (W) C

Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak

Date: 7/1/09
Carrier: DELTA

COC No:
Job No. 189111105
SDG No.

TestAmerica Laboratories, Inc.

TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sample Specific Notes:
189111105
189111105
189111105

Sample Identification

Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
7/1/09	1304	soil	soil	1
↓	1310	↓	↓	↓
↓	1325	↓	↓	↓
↓	1334	↓	↓	↓
		Presq		

CAM 17 Metals

Preservation Used: (1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other)

Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant

Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP if TTLC results ≥ 10x STLC / 20x TCLP thresholds

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client
 Disposal By Lab
Archive For () Months

Relinquished by: [Signature]
Relinquished by: [Signature]
Relinquished by: [Signature]

Company: MWH
Company: Test America
Company: CAH

Date/Time: 7/1/09 17:00
Date/Time: 7/1/09 15:00
Date/Time: 7/1/09 18:00

Received by: [Signature]
Received by: [Signature]
Received by: [Signature]

Company: Test America
Company: ZAL
Company: Bel

Date/Time: 7/1/09 17:00

Date/Time: 7/1/09 15:00

Date/Time: 7/1/09 18:00

Date/Time: 7/1/09 17:00

Date/Time: 7/1/09 15:00

Date/Time: 7/1/09 18:00

IRVINE
 17461 Deitan Ave
 Suite 100
 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Chain of Custody Record

ESG0117

Client Contact
 The Boeing Company SSFL
 5800 Woolsey Canyon Road
 Canoga Park, CA 91304
 Phone
 Project Manager: Tom Venable
 Tel/Fax: 818-466-8779 / 818-466-4873
 Date: 7-1-09
 Carrier: COURIER

Site Contact: Shelby Valenzuela
 Lab Contact: Joe Doak
 Job No. 1891614.05545.08
 SDC No.
 COC No. 1 of 1 COCs

Analysis Turnaround Time
 Calendar: (C) or Work Days (W) C
 TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
15NC00205001	7-1-09	12:02	S.S. SLURRY	SOIL	1
15NC00195001	7-1-09	12:30			1
15NC00235001	7-1-09	12:38			1
15NC00185001	7-1-09	12:48			1
15NC00225001	7-1-09	13:02			1
15NC00215001	7-1-09	13:12			1
15NC00175001	7-1-09	13:23			1
15NC00245001	7-1-09	13:33			1

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For _____ Months

Relinquished by: [Signature]
 Relinquished by: [Signature]
 Relinquished by: [Signature]

Received by: [Signature]
 Received by: [Signature]
 Received by: [Signature]

Company: [Signature]
 Company: [Signature]
 Company: [Signature]

Date/Time: 1505 7/1/09
 Date/Time: 7-1-09 / 15:30
 Date/Time: 7/1/09 / 15:30

Special Instructions/QC Requirements & Comments: Run STLC (WET) / TCLP IF TTLC results > 10x STLC / 20x TCLP thresholds

Preservation Used: (1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other)
 Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown

IRVINE
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

235397H

ISLA-HVS-3

Chain of Custody Record

TestAmerica
THE LEADER IN SERVING THE ENVIRONMENT

TestAmerica Laboratories, Inc.
COC No. _____ of _____ (U.S.)
Job No. 1591614.054572
SDG No. _____

IS 60120

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873
Site Contact: Shelby Valenzuela
Lab Contact: Joe Doak

Date: 7/1/04
Carrier: covered

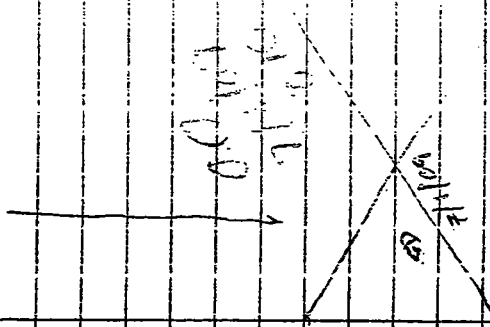
Analysis Turnaround Time
Calendar (C) or Work Days (W) e
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Project Name: ISRA HV Waste Characterization
Site: Happy Valley
PO # 7KSSISRA

Sample Identification
(0.2-0.7')
(0.3-0.6')
(0-0.5')
(1.1-1.6')
(1.5'-2.0')
(0-0.5', alluv)
(0.0-0.5')
(0-0.5')

Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	CAM 17 Metals
7/1/04	0900	S	alluv	1	X
7/1/04	0930	S	alluv	1	X
7/1/04	0940	S	alluv	1	X
7/1/04	0940	S	alluv	1	X
7/1/04	0915	S	alluv	1	X
7/1/04	1010	S	alluv	1	X
7/1/04	0950	S	alluv	1	X

Sample Specific Notes:
ISRA-HVS-3



Preservation Used: (1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other)
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown
Special Instructions/QC Requirements & Comments: Run STL/C (WEI)/ TCLP if TTLC results \geq 10x STL/C / 20x TCLP thresholds

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Month(s)

Relinquished by: [Signature]
Relinquished by: [Signature]
Relinquished by: [Signature]

Company: MWH
Company: TestAmerica
Company: TA-Env

Date/Time: 15057/101
Date/Time: 7-1-04 18:30
Date/Time: 7/21/04

Date/Time: 7/21/04
Date/Time: 7/21/04
Date/Time: 7/21/04

Received by: [Signature]
Received by: [Signature]
Received by: [Signature]

2-7C

Company: TestAmerica
Company: TA-Env
Company: Gel

IRVINE
17461 Dorian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

IS 60118

TestAmerica Laboratories, Inc.

Project Manager: Tom Venable Tel/Fax: 818-466-8779 / 818-466-4873		Site Contact: Shelby Valenzuela Lab Contact: Joe Doak		Date: 7/1/09 Carrier: container	
Analysis Turnaround Time Calendar (C) or Work Days (W) <u>C</u>		COC No: _____ of _____ COCs		Job No: 15A 1641.05452	
TAT If different from Below		SDG No: _____		Sample Specific Notes: TSKA - HWS - ZA	
<input checked="" type="checkbox"/> 2 weeks	<input type="checkbox"/> 1 week	<input type="checkbox"/> 2 days	<input type="checkbox"/> 1 day		
Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	
7/1/09	12:10	S	Soil	1	X
7/1/09	12:20	S	Soil	1	X
7/1/09	12:30	S	Soil	1	X
7/1/09	13:35	S	Soil	1	X
7/1/09	12:40	S	Soil	1	X
7/1/09	13:00	S	Soil	1	X
7/1/09	12:50	S	Soil	1	X
7/1/09	12:40	S	Soil	1	X
SP					
7/1/09					
Preservation Used (1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other)					
Possible Hazard Identification					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison-B <input type="checkbox"/> Unknown					
Special Instructions/QC Requirements & Comments: (Run STL (WEST) / TCLP if TYLC results ≥ 10x STL / 20x TCLP thresholds)					
Relinquished by: <i>[Signature]</i>		Date/Time: 1/05 7/1/09		Company: MWH	
Relinquished by: <i>[Signature]</i>		Date/Time: 7-1-09 18:30		Company: Test America	
Relinquished by: <i>[Signature]</i>		Date/Time: 7/2/09 11:00		Company: TAF/Env.	
Relinquished by: <i>[Signature]</i>		Date/Time: 7/3/09 9:00		Company: Env.	

207C

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client Disposal By Lab Archive For _____ Months

0.01%
7/1/09

Date/Time: 7-1-09 15:15
Date/Time: 7/1/09 15:15
Date/Time: 7/3/09 9:00

Company: Test America
Company: TAF
Company: Env.

Received by: *[Signature]*
Received by: *[Signature]*
Received by: *[Signature]*

Date/Time: 1/05 7/1/09
Date/Time: 7-1-09 18:30
Date/Time: 7/2/09 11:00

Company: MWH
Company: Test America
Company: TAF/Env.
Company: Env.



SAMPLE RECEIPT & REVIEW FORM

235397H

Client: <u>SSF1</u>		SDG/ARCOC/Work Order: <u>233955</u> JT 8/17/09	
Received By: <u>RMS</u>		Date Received: <u>7/22/09</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?		/	Maximum Counts Observed*:
Classified Radioactive II or III by RSO?		/	<u>400cpm</u>
COC/Samples marked containing PCBs?		/	
Shipped as a DOT Hazardous?		/	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		/	

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

Comments:

Fx: 7977 8177 6914

PM (or PMA) review: Initials JP Date 7/29/09

Subject: RE: Percent Moisture Analysis

From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com>

Date: Mon, 17 Aug 2009 13:22:49 -0600

To: Jackie Trudell <jacqueline.trudell@gel.com>

Yes, please perform percent solids on these two samples, but please log them in with the revised IDs listed below.

Sample ID	Revised Sample ID
ISWC0043S001	CNBS0135S001
ISWC0044S001	CNBS0136S001

-----Original Message-----

From: Jackie Trudell [mailto:jacqueline.trudell@gel.com]

Sent: Monday, August 17, 2009 12:20 PM

To: Sarah Von Raesfeld

Subject: Percent Moisture Analysis

Sarah-

I confirmed with the laboratory that there is enough volume remaining for samples ISWC0043S001 and ISWC0044S001 to run the percent moisture analysis. Please confirm that you would like us to preform this analysis.

Thanks,
Jackie

--

Jacqueline Trudell
Project Manager
GEL Laboratories, LLC
2040 Savage Road
Charleston, SC (USA) 29407
Direct: 843.769.7388
Main: 843.556.8171 ext. 4406
Fax: 843.766.1178
E-mail: jacqueline.trudell@gel.com
Web: www.gel.com

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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 HV Waste Characterization %
Moisture**

Report Date: August 20, 2009

Client Sample ID:	CNBS0135S001	Project:	SSFL00157
Sample ID:	235397001	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 11:34		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	2.88%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	2.88				percent		MXM 08/17/09 1921	894646	1	
E-11870							5				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

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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 HV Waste Characterization %
Moisture**

Report Date: August 20, 2009

Client Sample ID:	CNBS0136S001	Project:	SSFL00157
Sample ID:	235397002	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	01-JUL-09 11:43		
Receive Date:	22-JUL-09		
Collector:	Client		
Moisture:	3.42%		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Gravimetric Solids											
<i>ASTM D 2216 % Moisture "As Received"</i>											
Moisture	H	3.42				percent		MXM 08/17/09 1921	894646	1	
E-11870							5				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	ASTM D 2216 (Modified)	

GEL LABORATORIES LLC

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

QC Summary

Report Date: August 20, 2009

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MECx, LLC
3061 West 92nd Ave
#10-D
Westminster, Colorado

Contact: Ms. Kim Schultz

Workorder: 235397

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Gravimetric Solids											
Batch	894646										
QC1201904149	235365002	DUP									
Moisture		11.4		12.2	percent	6.19		(0%-20%)	MXM5	08/17/09	19:21

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.
- 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

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QC Summary

Workorder: 235397

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<u>Parmname</u>	<u>NOM</u>	<u>Sample</u>	<u>Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
-----------------	------------	---------------	-------------	-----------	--------------	-------------	-------------	--------------	--------------	-------------	-------------

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.



SAMPLE RECEIPT & REVIEW FORM

Client: SSFL	SDG/ARCOC/Work Order: 235405
Received By: JP	Date Received: 8/18/09

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?			Maximum Counts Observed*: 20cpm
Classified Radioactive II or III by RSO?			
COC/Samples marked containing PCBs?			
Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?			

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

Comments: **Fed Ex 9457 3158 0547**

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 Outfall 008 Waste Characterization**

Report Date: August 31, 2009

Client Sample ID: ISWC0094RadS001
Sample ID: 235405001
Matrix: Soil
Collect Date: 17–AUG–09 14:08
Receive Date: 18–AUG–09
Collector: Client

Project: SSFL00158
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium–241 14596–10–2	UI	0.00	+/-0.0435	0.0735		pCi/g			MXR	108/25/09	0817	895148 1
Cesium–134 13967709	UI	0.00	+/-0.0701	0.0752		pCi/g						
Cesium–137 10045973	U	-0.00482	+/-0.0288	0.0505	0.050	pCi/g						
Cobalt–60 10198400	U	0.0281	+/-0.0331	0.061		pCi/g						
Europium–152 14683239	U	0.0137	+/-0.0983	0.120		pCi/g						
Europium–154 15585101	U	-0.00746	+/-0.106	0.176		pCi/g						
Manganese–54 13966319	U	-0.000916	+/-0.030	0.052		pCi/g						
Potassium–40 13966002		21.4	+/-2.19	0.372		pCi/g						
Sodium–22 13966320	U	-0.00266	+/-0.0376	0.0626		pCi/g						
Thorium–228 14274829		1.36	+/-0.152	0.070		pCi/g						
Thorium–232 7440291		1.33	+/-0.245	0.179		pCi/g						
Uranium–235 15117961	U	-0.118	+/-0.145	0.243		pCi/g						
Uranium–238 7440611		1.43	+/-0.658	0.713		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium–90 10098972	U	-0.00381	+/-0.026	0.0476	0.050	pCi/g			MXB	108/26/09	1124	895102 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028–17–8	U	-0.0872	+/-0.703	1.25	1.00	pCi/g			KXK	2 08/20/09	0750	894923 3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
--------	-------------	---------	------	------	------------

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 Outfall 008 Waste Characterization**

Report Date: August 31, 2009

Client Sample ID:	ISWC0095RadS001	Project:	SSFL00158
Sample ID:	235405002	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	17-AUG-09 14:21		
Receive Date:	18-AUG-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.00138	+/-0.0376	0.0619		pCi/g		MXR108/25/09	0844	895148	1
Cesium-134 13967709	UI	0.00	+/-0.0352	0.063		pCi/g					
Cesium-137 10045973	U	-0.023	+/-0.0254	0.0409	0.050	pCi/g					
Cobalt-60 10198400	U	0.000591	+/-0.0233	0.0392		pCi/g					
Europium-152 14683239	U	-0.00132	+/-0.0584	0.0998		pCi/g					
Europium-154 15585101	U	0.106	+/-0.084	0.155		pCi/g					
Manganese-54 13966319	U	0.00139	+/-0.0235	0.0417		pCi/g					
Potassium-40 13966002		20.1	+/-1.62	0.383		pCi/g					
Sodium-22 13966320	U	0.0381	+/-0.0299	0.0553		pCi/g					
Thorium-228 14274829		1.27	+/-0.126	0.0524		pCi/g					
Thorium-232 7440291		1.40	+/-0.251	0.144		pCi/g					
Uranium-235 15117961	U	0.126	+/-0.121	0.220		pCi/g					
Uranium-238 7440611		1.75	+/-0.743	0.594		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	-0.00968	+/-0.0123	0.0296	0.050	pCi/g		MXB108/26/09	1124	895102	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.423	+/-0.678	1.24	1.00	pCi/g		KXK2 08/20/09	0838	894923	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch

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 Outfall 008 Waste Characterization**

Report Date: August 31, 2009

Client Sample ID: ISWC0095RadS001
Sample ID: 235405002
Project: SSFL00158
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL-RAD-A-021			DRS1	08/19/09	1356	894778			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			79.8	(25%–125%)

GEL LABORATORIES LLC

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

QC Summary

Report Date: August 31, 2009
Page 1 of 4

MECx, LLC
3061 West 92nd Ave
#10-D
Westminster, Colorado
Contact: Ms. Kim Schultz

Workorder: 235405

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	895148										
QC1201905417	235405001	DUP									
Americium-241	UI	0.00	U	0.020	pCi/g	120		N/A MXR1		08/25/09	12:47
		+/-0.0435		+/-0.040							
Cesium-134	UI	0.00	U	0.0534	pCi/g	54.6		N/A			
		+/-0.0701		+/-0.0418							
Cesium-137	U	-0.00482	U	0.0151	pCi/g	388		N/A			
		+/-0.0288		+/-0.0282							
Cobalt-60	U	0.0281	U	0.00867	pCi/g	106		N/A			
		+/-0.0331		+/-0.0287							
Europium-152	U	0.0137	U	0.0341	pCi/g	85.3		N/A			
		+/-0.0983		+/-0.0635							
Europium-154	U	-0.00746	U	-0.0538	pCi/g	151		N/A			
		+/-0.106		+/-0.0919							
Manganese-54	U	-0.000916	U	-0.0112	pCi/g	170		N/A			
		+/-0.030		+/-0.025							
Potassium-40		21.4		20.8	pCi/g	2.94		(0% - 20%)			
		+/-2.19		+/-1.70							
Sodium-22	U	-0.00266	U	-0.0199	pCi/g	153		N/A			
		+/-0.0376		+/-0.0327							
Thorium-228		1.36		1.21	pCi/g	11.7		(0% - 20%)			
		+/-0.152		+/-0.124							
Thorium-232		1.33		1.30	pCi/g	2.81		(0% - 20%)			
		+/-0.245		+/-0.252							
Uranium-235	U	-0.118	U	-0.0516	pCi/g	78.1		N/A			
		+/-0.145		+/-0.128							
Uranium-238		1.43		1.17	pCi/g	19.7		(0% - 100%)			
		+/-0.658		+/-0.665							
QC1201905418	LCS										
Americium-241	15.9			14.7	pCi/g		92.5	(75%-125%)		08/25/09	12:19
				+/-1.31							
Cesium-134			U	0.130	pCi/g						
				+/-0.131							
Cesium-137	5.62			6.35	pCi/g		113	(75%-125%)			
				+/-0.781							
Cobalt-60	6.81			6.83	pCi/g		100	(75%-125%)			
				+/-0.682							
Europium-152			U	-0.225	pCi/g						
				+/-0.275							
Europium-154			U	0.0168	pCi/g						
				+/-0.204							

GEL LABORATORIES LLC

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QC Summary

Workorder: 235405

Page 2 of 4

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	895148										
Manganese-54			U	-0.0685	pCi/g						
				+/-0.112							
Potassium-40			U	1.01	pCi/g				MXR1	08/25/09	12:19
				+/-0.692							
Sodium-22			U	0.00492	pCi/g						
				+/-0.0724							
Thorium-228				1.12	pCi/g						
				+/-0.200							
Thorium-232				1.64	pCi/g						
				+/-0.793							
Uranium-235			U	0.0546	pCi/g						
				+/-0.332							
Uranium-238			U	-0.367	pCi/g						
				+/-1.19							
QC1201905416	MB										
Americium-241			U	-0.00498	pCi/g					08/25/09	10:54
				+/-0.0829							
Cesium-134			U	0.00744	pCi/g						
				+/-0.014							
Cesium-137			U	-0.00903	pCi/g						
				+/-0.0142							
Cobalt-60			U	-0.0113	pCi/g						
				+/-0.0139							
Europium-152			U	-0.0608	pCi/g						
				+/-0.0429							
Europium-154			U	0.0163	pCi/g						
				+/-0.0353							
Manganese-54			U	0.00394	pCi/g						
				+/-0.0119							
Potassium-40			U	-0.116	pCi/g						
				+/-0.185							
Sodium-22			U	0.006	pCi/g						
				+/-0.0126							
Thorium-228			U	-0.0229	pCi/g						
				+/-0.0343							
Thorium-232			U	-0.0169	pCi/g						
				+/-0.0566							
Uranium-235			U	0.0037	pCi/g						
				+/-0.0909							
Uranium-238			U	-0.779	pCi/g						
				+/-0.732							
Rad Gas Flow											
Batch	895102										
QC1201905297	235405002	DUP									
Strontium-90	U	-0.00968	U	0.0128	pCi/g	0.00		N/A	MXB1	08/26/09	11:24

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

QC Summary

Workorder: 235405

Page 3 of 4

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	895102										
				+/-0.0123							+/-0.027
QC1201905299	LCS										
Strontium-90	1.76				1.75	pCi/g	99.6	(75%-125%)	MXB1	08/26/09	07:07
					+/-0.116						
QC1201905296	MB										
Strontium-90			U		-0.0348	pCi/g				08/26/09	11:24
					+/-0.0219						
QC1201905298	235405002	MS									
Strontium-90	6.48	U			-0.00968	pCi/g	93.4	(75%-125%)		08/26/09	07:06
					+/-0.0123						+/-0.422
Rad Liquid Scintillation											
Batch	894923										
QC1201904841	235405001	DUP									
Tritium		U			-0.0872	pCi/g	0.00		N/A	KXX2	08/20/09 10:12
					+/-0.703						+/-0.731
QC1201904843	LCS										
Tritium	11.4				9.67	pCi/g	85.2	(75%-125%)		08/20/09	11:23
					+/-1.84						
QC1201904840	MB										
Tritium		U			-0.125	pCi/g				08/20/09	09:25
					+/-0.695						
QC1201904842	235405001	MS									
Tritium	11.4	U			-0.0872	pCi/g	90.4	(75%-125%)		08/20/09	10:58
					+/-0.703						+/-1.54

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.

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QC Summary

Workorder: 235405

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.

IRVINE
17401 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 Fax 949.260.3299

235617H
234235 JT 8/20/09

GEL LABS
2040 SANYE RD.
CHARLESTON, SC 29407
(843) 719-7388

Chain of Custody Record
ALEX FISCHL 925-627-4627
Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873
Site: Happy Valley ELY
P.O. # 7KSSISRA

235617H
234235 JT 8/20/09

Client Contact
The Boeing Company SSFL
5800 Woolsey Canyon Road
Canoga Park, CA 91304
Phone
FAX
Project Name: ISRA - HV Waste Characterization
Site: Happy Valley ELY
P.O. # 7KSSISRA

Project Manager: Tom Venable
Tel/Fax: 818-466-8779 / 818-466-4873
Site Contact: Shelby Valenzuela
Lab Contact: Joe Deats
Date: 7-28-09
Carrier: FEDEX
COOC No: 4
Job No. 1891614
SDG No. 1891614
DEPTH
Sample Specific Notes:
1.6' bgs
1.8' bgs
0.9' bgs
0.7' bgs
0.4' bgs
0.7' bgs
0.4' bgs
1.5' bgs
0.7' bgs
0.8' bgs
0.5' bgs
0.8' bgs

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
15NC0062 RadS001 001	7-28-09	9:07	SUBVE	SOIL	1
15NC0064 RadS001	7-28-09	9:28			1
15NC0066 RadS001 003	7-28-09	9:48			1
15NC0068 RadS001	7-28-09	9:53			1
15NC0050 RadS001	7-28-09	10:43			1
15NC0052 RadS001 004	7-28-09	10:56			1
15NC0054 RadS001 007	7-28-09	11:05			1
15NC0056 RadS001	7-28-09	11:23			1
15NC0058 RadS001 009	7-28-09	11:39			1
15NC0060 RadS001	7-28-09	11:56			1
15NC0070 RadS001	7-28-09	13:26			1
15NC0072 RadS001	7-28-09	13:57			1

Analysis Turnaround Time
Calendar (C) or Work Days (W) W
TAT if different from Below
 3 weeks 10 DAYS
 1 week
 2 days
 1 day

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
Archive For 6 Months

Preservation Used: 1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other
Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown

Special Instructions/QC Requirements & Comments: RAD CHEM COMPOUND LIST PER E-MAIL DATED 7/28/09

Relinquished by: Alex M. Roberts
Relinquished by: MWH
Relinquished by: MWH
Date/Time: 7/28/09 10:18
Date/Time: 7/29/09 8:10
Date/Time: 7/29/09 8:10

AP
 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299

235617H
 294235 JT 4/20/09

AP TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

GEL LABS
 2040 SANME RD.
 CHARLESTON, SC 29407
 (843) 769-7388

GEL

Chain of Custody Record

Alex Fishel 915-627-4627 **Jacqueline Trivell**

TestAmerica Laboratories, Inc.
 COC No: 4
 Job No. 1891614
 1004982-05453

Client Contact
 The Boeing Company SSFL
 5800 Woodsey Canyon Road
 Canoga Park, CA 91304
 Phone: _____ FAX: _____

Project Manager: Tom Venable
 Tel/Fax: 818-466-8779 / 818-466-4873

Analysis Turnaround Time
 Calendar (C) or Work Days (W) W
 C
 TAT if different from Below
 2 weeks - 10 DAYS
 1 week
 2 days
 1 day

Site: ISRA - HV Waste Characterization
 PO # 7KSSISRA

Date: 7-28-09
 Carrier: Fedex
 Lab Contact: Joe Doak
 Site Contact: Shelby Valenzuela

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	DEPTH	Sample Specific Notes:
15WLC0074 RadS001	7-28-09	13:51	SUVE	SOIL	1	1.5' BAS	
15WLC0076 RadS001	7-28-09	14:05	↓	↓	1	0.2' BAS	

RADIOCHEMISTRY
 CHEMISTRY

AP 7/28/09

Preservation Used: (= Ice) 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For _____ Months

RAD CHEM COMPOUND LIST PER E-MAIL DATED 7/28/09

Relinquished by: <i>Allen M. Ristola</i>	Company: MNH	Date/Time: 7/28/09 16:18	Received by: <i>[Signature]</i>	Company: GEL	Date/Time: 7/29/09 8:40
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

IRVINE
 61 Derian Ave
 Suite 100
 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299

235617H
 204235-01 9/20/09
 Chain of Custody Record
 Alex Fish, 925-427-4627
 Jacques Fournier

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Laboratories, Inc.

Client Contact
 The Boiling Company SSFL
 5800 Woolsey Canyon Road
 Canoga Park, CA 91304
 Phone
 FAX
 Project Name: ISRA - HV Waste Characterization
 Site: Happy Valley ELV
 P O # 7KSSISRA

Project Manager: Tom Venables
 Tel/Fax: 818.466.8720, 818.466.4823
 Site Contact: Shelby Valenzuela
 Lab Contact: Joe Deane
 Date: 7/28/09
 Carrier: FedEx
 Job No. 1891614
 COC No. 3 of 4 COCs

Analysis Turnaround Time
 Calendar (C) or Work Days (W) W
 -2 weeks - 10 day
 1 week
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Copies	Sample Specific Notes
ISWC0061 Rad Soil	7-28-09	0905	soil	soil	51	
ISWC0063 Rad Soil		0917	soil		1	
ISWC0065 Rad Soil		0957	soil		1	
ISWC0067 Rad Soil		0948	soil		1	
ISWC0049 Rad Soil		1042	soil		1	
ISWC0051 Rad Soil		1053	soil		1	
ISWC0053 Rad Soil		1105	soil		1	
ISWC0055 Rad Soil		1114	soil		1	
ISWC0057 Rad Soil		1130	soil		1	
ISWC0059 Rad Soil		1142	soil		1	
ISWC0069 Rad Soil		120	soil		1	
ISWC0071 Rad Soil		1358	soil		1	

Preservation Used: 1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other 1
 Possible Hazard Identification:
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For 6 Months

Relinquished by: [Signature]
 Date/Time: 7/28/09 16:21
 Company: MWT

Relinquished by: [Signature]
 Date/Time: 7/29/09 8:18
 Company: GEL

Relinquished by: [Signature]
 Date/Time: [Blank]
 Company: [Blank]

radchem compound list per email dated 7/28/09

Chain of Custody Record
 Alex Pskl 915-427-4427
 Diego Jim Trull
 Feb-04

Client Contact
 The Boeing Company SSFL
 5800 Woolsey Canyon Road
 Canoga Park, CA 91304

Project Manager: Tom Venable
 Tel/Fax: 818-466-8779/818-466-8898

Site: Happy Valley ELV
 PO # 7KSSISRA

Project Name: ISRA - HV Waste Characterization

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
ISWC-0073 Rad.S001	7/28/09	1348	slene	S01	1
ISWC-0075 Rad.S001	"	1400	"	"	1

Analysis Turnaround Time
 Calendar (C) or Work Days (W) W

TAT if different from Below
 2 weeks or 10 day
 1 week
 2 days
 1 day

Site Contact: Shelby Valenzuela
Lab Contact: Joe Doug

Project Manager: Tom Venable
Carrier: 189/1014

Date: 7-28-09
Disposal By Lab: Archive For 6 Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input checked="" type="checkbox"/> Archive For	Months		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other 1

Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown

Special Instructions/QC Requirements & Comments: Radchem compound list per email dated 7/28/09

Relinquished by: [Signature]
 Date/Time: 7/29/09

Received by: [Signature]
 Date/Time: 7/29/09 8:40

Company: MWPI

Relinquished by: [Signature]
 Date/Time: 7/29/09

Received by: [Signature]
 Date/Time: 7/29/09

Company: GEL



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

235617H

Client: <u>SSFL</u>		SDG/ARCOC/Work Order: <u>234235</u> JT 8/20/09	
Received By: <u>BTJL</u>		Date Received: <u>7/29/09</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*: <u>cpm 40</u>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	
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>4</u> ice bags blue ice dry ice none other (describe)
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:
FEDEX #9457 3158 0672

Subject: FW: Cs-137 recount

From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com>

Date: Wed, 19 Aug 2009 15:26:38 -0600

To: "jacqueline.trudell@gel.com" <jacqueline.trudell@gel.com>

Please perform this re-count on a 10 day TAT.

From: Sarah Von Raesfeld

Sent: Wednesday, August 19, 2009 1:20 PM

To: 'jacqueline.trudell@gel.com'

Subject: Cs-137 recount

Hi Jackie,

Please re-count the Cs-137 samples listed below (from 234235):

ISWC0052RadS001

ISWC0053RadS001

ISWC0054RadS001

ISWC0055RadS001

ISWC0058RadS001

ISWC0062RadS001

ISWC0065RadS001

ISWC0066RadS001

When should we expect to see the new results?



MWH

BUILDING A BETTER WORLD

Sarah Von Raesfeld

Environmental Chemist

MWH Americas, Inc.

2121 N. California Blvd.

Suite 600

Walnut Creek, California 94596

Telephone: 925 627 4500

Direct Line: 925 627 4654

Facsimile: 925 627 4501

Subject: RE: Boeing ISRA - Recount Request

From: Alexander Fischl <Alexander.Fischl@us.mwhglobal.com>

Date: Fri, 21 Aug 2009 13:06:20 -0600

To: Jackie Trudell <jacqueline.trudell@gel.com>

CC: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com>, Sean Leffler <Sean.S.Leffler@us.mwhglobal.com>

Yes, please expedite the results for those 3 samples with a 2x multiplier. Can you provide me a date for when I can expect the results.

Alex Fischl
MWH - Walnut Creek Office
925-627-4627

-----Original Message-----

From: Jackie Trudell [<mailto:jackqueline.trudell@gel.com>]
Sent: Friday, August 21, 2009 11:08 AM
To: Alexander Fischl
Cc: Jacqueline Trudell; Sarah Von Raesfeld; Sean Leffler
Subject: Re: Boeing ISRA - Recount Request

Alex-

We can expedite those results, but they will be charged at a 2x multiplier. Please advise if this is acceptable.

Thanks,
Jackie

Alexander Fischl wrote:

Hi Jackie,

Sarah requested a recount of the following samples on a 10 day TAT on Wednesday I believe.

ISWC0052RadS001 0.612
ISWC0053RadS001 0.394
ISWC0054RadS001 0.659
ISWC0055RadS001 0.410
ISWC0058RadS001 0.315
ISWC0062RadS001 0.252
ISWC0065RadS001 0.455
ISWC0066RadS001 0.653

I just found out I will need will need recount results for ISWC0062, 0065, and 0066 before the end of next week (before August 28th). Is that possible?

Thank you,
Alex Fischl
MWH - Walnut Creek Office
925-627-4627

--
Jacqueline Trudell
Project Manager
GEL Laboratories, LLC
2040 Savage Road
Charleston, SC (USA) 29407
Direct: 843.769.7388
Main: 843.556.8171 ext. 4406
Fax: 843.766.1178
E-mail: jackqueline.trudell@gel.com

Web: www.gel.com

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GEL LABORATORIES LLC

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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 HV Waste Characterization**

Report Date: August 25, 2009

Client Sample ID: ISWC0062RadS001
Sample ID: 235617001
Matrix: Soil
Collect Date: 28–JUL–09 09:07
Receive Date: 29–JUL–09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium–241 14596–10–2	U	0.116	+/-0.115	0.199		pCi/g		MXR108/21/09	1123	895615	1
Cesium–134 13967709	U	0.0351	+/-0.043	0.0576		pCi/g					
Cesium–137 10045973		0.283	+/-0.0389	0.0374	0.050	pCi/g					
Cobalt–60 10198400	U	-0.00153	+/-0.0239	0.0401		pCi/g					
Europium–152 14683239	U	0.011	+/-0.071	0.107		pCi/g					
Europium–154 15585101	U	-0.0899	+/-0.0806	0.124		pCi/g					
Manganese–54 13966319	U	-0.000795	+/-0.0224	0.0395		pCi/g					
Potassium–40 13966002		21.3	+/-1.73	0.293		pCi/g					
Sodium–22 13966320	U	-0.0325	+/-0.0289	0.0446		pCi/g					
Thorium–228 14274829		1.08	+/-0.100	0.0635		pCi/g					
Thorium–232 7440291		1.13	+/-0.213	0.143		pCi/g					
Uranium–235 15117961	U	0.00105	+/-0.137	0.240		pCi/g					
Uranium–238 7440611	U	0.297	+/-1.24	1.60		pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	MXP2	07/29/09	1533	895578

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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 HV Waste Characterization**

Report Date: August 25, 2009

Client Sample ID: ISWC0066RadS001
Sample ID: 235617002
Matrix: Soil
Collect Date: 28–JUL–09 09:48
Receive Date: 29–JUL–09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium–241 14596–10–2	U	0.0302	+/-0.131	0.246		pCi/g		MXR108/21/09	1125	895615	1
Cesium–134 13967709	UI	0.00	+/-0.0377	0.0577		pCi/g					
Cesium–137 10045973		0.713	+/-0.0694	0.0381	0.050	pCi/g					
Cobalt–60 10198400	U	0.00889	+/-0.0234	0.0416		pCi/g					
Europium–152 14683239	U	-0.0255	+/-0.0592	0.0995		pCi/g					
Europium–154 15585101	U	-0.057	+/-0.0711	0.115		pCi/g					
Manganese–54 13966319	U	0.000174	+/-0.0222	0.0384		pCi/g					
Potassium–40 13966002		21.0	+/-1.78	0.325		pCi/g					
Sodium–22 13966320	U	-0.0261	+/-0.026	0.0414		pCi/g					
Thorium–228 14274829		1.32	+/-0.124	0.0591		pCi/g					
Thorium–232 7440291		1.32	+/-0.215	0.115		pCi/g					
Uranium–235 15117961	U	-0.07	+/-0.130	0.217		pCi/g					
Uranium–238 7440611	U	0.435	+/-1.05	1.92		pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	MXP2	07/29/09	1533	895578

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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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 HV Waste Characterization**

Report Date: August 25, 2009

Client Sample ID: ISWC0052RadS001
Sample ID: 235617003
Matrix: Soil
Collect Date: 28–JUL–09 10:56
Receive Date: 29–JUL–09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium–241 14596–10–2	U	0.0854	+/-0.186	0.310		pCi/g		MXR108/21/09	1357	895615	1
Cesium–134 13967709	UI	0.00	+/-0.0499	0.0606		pCi/g					
Cesium–137 10045973		0.605	+/-0.0586	0.0431	0.050	pCi/g					
Cobalt–60 10198400	U	-0.0357	+/-0.0297	0.0429		pCi/g					
Europium–152 14683239	U	0.00292	+/-0.0826	0.121		pCi/g					
Europium–154 15585101	U	-0.0147	+/-0.0814	0.135		pCi/g					
Manganese–54 13966319	U	0.0181	+/-0.024	0.0436		pCi/g					
Potassium–40 13966002		22.5	+/-2.00	0.367		pCi/g					
Sodium–22 13966320	U	-0.00566	+/-0.0292	0.0483		pCi/g					
Thorium–228 14274829		1.14	+/-0.120	0.069		pCi/g					
Thorium–232 7440291		0.986	+/-0.239	0.138		pCi/g					
Uranium–235 15117961	U	-0.0382	+/-0.155	0.262		pCi/g					
Uranium–238 7440611	U	0.345	+/-1.47	2.29		pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	MXP2	07/29/09	1533	895578

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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 Westminster, Colorado 80031
Contact : Ms. Kim Schultz
Project : **ISRA HV Waste Characterization**

Report Date: August 25, 2009

Client Sample ID: ISWC0054RadS001
Sample ID: 235617004
Matrix: Soil
Collect Date: 28–JUL–09 11:05
Receive Date: 29–JUL–09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium–241 14596–10–2	U	0.0194	+/-0.105	0.176		pCi/g		MXR108/21/09	1358	895615	1
Cesium–134 13967709	UI	0.00	+/-0.036	0.0443		pCi/g					
Cesium–137 10045973		0.686	+/-0.0687	0.0319	0.050	pCi/g					
Cobalt–60 10198400	U	-0.00822	+/-0.018	0.0294		pCi/g					
Europium–152 14683239	U	-0.0113	+/-0.0575	0.0846		pCi/g					
Europium–154 15585101	U	-0.0894	+/-0.063	0.0973		pCi/g					
Manganese–54 13966319	U	-0.0137	+/-0.0191	0.0308		pCi/g					
Potassium–40 13966002		24.5	+/-2.01	0.258		pCi/g					
Sodium–22 13966320	U	-0.0289	+/-0.0224	0.035		pCi/g					
Thorium–228 14274829		1.13	+/-0.0959	0.0485		pCi/g					
Thorium–232 7440291		1.11	+/-0.199	0.103		pCi/g					
Uranium–235 15117961	U	0.0159	+/-0.117	0.194		pCi/g					
Uranium–238 7440611	U	1.04	+/-0.961	1.45		pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	MXP2	07/29/09	1533	895578

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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Company : MECx, LLC
Address : 3061 West 92nd Ave
#10–D
Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: August 25, 2009

Client Sample ID: ISWC0058RadS001
Sample ID: 235617005
Matrix: Soil
Collect Date: 28–JUL–09 11:39
Receive Date: 29–JUL–09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium–241 14596–10–2	U	0.0201	+/-0.042	0.0666		pCi/g				MXR108/21/09	1548	895615 1
Cesium–134 13967709	UI	0.00	+/-0.0628	0.0715		pCi/g						
Cesium–137 10045973		0.289	+/-0.0511	0.0443	0.050	pCi/g						
Cobalt–60 10198400	U	0.0124	+/-0.0303	0.0523		pCi/g						
Europium–152 14683239	U	0.0273	+/-0.0621	0.110		pCi/g						
Europium–154 15585101	U	-0.00553	+/-0.0936	0.155		pCi/g						
Manganese–54 13966319	U	0.00231	+/-0.0283	0.0497		pCi/g						
Potassium–40 13966002		21.9	+/-1.81	0.388		pCi/g						
Sodium–22 13966320	U	-0.00173	+/-0.0337	0.0559		pCi/g						
Thorium–228 14274829		1.19	+/-0.124	0.061		pCi/g						
Thorium–232 7440291		1.29	+/-0.258	0.170		pCi/g						
Uranium–235 15117961	U	0.0375	+/-0.130	0.228		pCi/g						
Uranium–238 7440611		0.950	+/-0.663	0.636		pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	MXP2	07/29/09	1533	895578

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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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 HV Waste Characterization**

Report Date: August 25, 2009

Client Sample ID: ISWC0065RadS001
Sample ID: 235617006
Matrix: Soil
Collect Date: 28–JUL–09 09:37
Receive Date: 29–JUL–09
Collector: Client
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium–241 14596–10–2	U	–0.0831	+/–0.118	0.216		pCi/g			MXR108/21/09	1549	895615	1
Cesium–134 13967709	UI	0.00	+/–0.0546	0.0661		pCi/g						
Cesium–137 10045973		0.349	+/–0.0529	0.0488	0.050	pCi/g						
Cobalt–60 10198400	U	–0.012	+/–0.0291	0.047		pCi/g						
Europium–152 14683239	U	–0.0146	+/–0.0891	0.120		pCi/g						
Europium–154 15585101	U	0.0628	+/–0.080	0.143		pCi/g						
Manganese–54 13966319	U	0.00583	+/–0.0262	0.0463		pCi/g						
Potassium–40 13966002		20.9	+/–1.73	0.350		pCi/g						
Sodium–22 13966320	U	0.0215	+/–0.0286	0.0511		pCi/g						
Thorium–228 14274829		1.32	+/–0.120	0.0668		pCi/g						
Thorium–232 7440291		1.30	+/–0.226	0.145		pCi/g						
Uranium–235 15117961	U	–0.00644	+/–0.153	0.262		pCi/g						
Uranium–238 7440611	U	1.48	+/–1.05	1.89		pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	MXP2	07/29/09	1533	895578

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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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 HV Waste Characterization**

Report Date: August 25, 2009

Client Sample ID: ISWC0053RadS001
Sample ID: 235617007
Matrix: Soil
Collect Date: 28–JUL–09 11:05
Receive Date: 29–JUL–09
Collector: Client
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium–241 14596–10–2	U	0.033	+/-0.064	0.108		pCi/g		MXR	108/21/09	1549	895615	1
Cesium–134 13967709	UI	0.00	+/-0.042	0.0566		pCi/g						
Cesium–137 10045973		0.436	+/-0.0576	0.0408	0.050	pCi/g						
Cobalt–60 10198400	U	0.0107	+/-0.0224	0.0397		pCi/g						
Europium–152 14683239	U	-0.0439	+/-0.0705	0.0964		pCi/g						
Europium–154 15585101	U	-0.0101	+/-0.0707	0.120		pCi/g						
Manganese–54 13966319	U	0.016	+/-0.0238	0.0421		pCi/g						
Potassium–40 13966002		24.8	+/-2.32	0.345		pCi/g						
Sodium–22 13966320	U	0.00127	+/-0.0251	0.0431		pCi/g						
Thorium–228 14274829		1.30	+/-0.138	0.0545		pCi/g						
Thorium–232 7440291		1.32	+/-0.248	0.122		pCi/g						
Uranium–235 15117961	U	0.122	+/-0.126	0.218		pCi/g						
Uranium–238 7440611	U	0.407	+/-0.713	0.972		pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	MXM5	07/30/09	1231	895578

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

GEL LABORATORIES LLC

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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 HV Waste Characterization**

Report Date: August 25, 2009

Client Sample ID: ISWC0055RadS001
Sample ID: 235617008
Matrix: Soil
Collect Date: 28–JUL–09 11:16
Receive Date: 29–JUL–09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium–241 14596–10–2	U	0.0413	+/-0.0447	0.0759		pCi/g		MXR108/21/09	1550	895615	1
Cesium–134 13967709	UI	0.00	+/-0.0466	0.0758		pCi/g					
Cesium–137 10045973		0.458	+/-0.0687	0.0618	0.050	pCi/g					
Cobalt–60 10198400	U	0.00837	+/-0.0371	0.0592		pCi/g					
Europium–152 14683239	U	-0.0145	+/-0.0876	0.130		pCi/g					
Europium–154 15585101	U	-0.0946	+/-0.108	0.174		pCi/g					
Manganese–54 13966319	U	0.00343	+/-0.0337	0.0583		pCi/g					
Potassium–40 13966002		24.7	+/-1.90	0.464		pCi/g					
Sodium–22 13966320	U	-0.0331	+/-0.0389	0.0629		pCi/g					
Thorium–228 14274829		1.31	+/-0.142	0.0685		pCi/g					
Thorium–232 7440291		1.39	+/-0.259	0.202		pCi/g					
Uranium–235 15117961	U	0.177	+/-0.211	0.258		pCi/g					
Uranium–238 7440611	U	0.448	+/-0.759	0.726		pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	MXM5	07/30/09	1231	895578

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

GEL LABORATORIES LLC

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

QC Summary

Report Date: August 25, 2009
Page 1 of 3

MECx, LLC
3061 West 92nd Ave
#10-D
Westminster, Colorado

Contact: Ms. Kim Schultz

Workorder: 235617

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	895615										
QC1201906554	235617001	DUP									
Americium-241	U	0.116	U	0.0264	pCi/g	126		N/A	MXR1	08/21/09	15:52
		+/-0.115		+/-0.0629							
Cesium-134	U	0.0351	UI	0.00	pCi/g	66.5		N/A			
		+/-0.043		+/-0.0343							
Cesium-137		0.283		0.217	pCi/g	26.5*		(0% - 20%)			
		+/-0.0389		+/-0.0364							
Cobalt-60	U	-0.00153	U	-0.009	pCi/g	142		N/A			
		+/-0.0239		+/-0.0183							
Europium-152	U	0.011	U	0.0247	pCi/g	77.0		N/A			
		+/-0.071		+/-0.0499							
Europium-154	U	-0.0899	U	0.0247	pCi/g	351		N/A			
		+/-0.0806		+/-0.0594							
Manganese-54	U	-0.000795	U	0.0183	pCi/g	218		N/A			
		+/-0.0224		+/-0.0225							
Potassium-40		21.3		22.6	pCi/g	5.79		(0% - 20%)			
		+/-1.73		+/-1.68							
Sodium-22	U	-0.0325	U	0.00753	pCi/g	320		N/A			
		+/-0.0289		+/-0.0215							
Thorium-228		1.08		1.12	pCi/g	3.54		(0% - 20%)			
		+/-0.100		+/-0.126							
Thorium-232		1.13		1.17	pCi/g	3.04		(0% - 20%)			
		+/-0.213		+/-0.202							
Uranium-235	U	0.00105	U	0.024	pCi/g	183		N/A			
		+/-0.137		+/-0.107							
Uranium-238	U	0.297	U	0.863	pCi/g	97.6		N/A			
		+/-1.24		+/-0.736							
QC1201906555	LCS										
Americium-241	16.3			14.7	pCi/g		89.9	(75%-125%)		08/21/09	17:30
				+/-1.67							
Cesium-134			U	0.0668	pCi/g						
				+/-0.0997							
Cesium-137	5.77			6.00	pCi/g		104	(75%-125%)			
				+/-0.470							
Cobalt-60	7.03			7.46	pCi/g		106	(75%-125%)			
				+/-0.651							
Europium-152			U	-0.0135	pCi/g						
				+/-0.202							
Europium-154			U	-0.129	pCi/g						
				+/-0.189							

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QC Summary

Workorder: 235617

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch		895615									
Manganese-54			U	0.0637 +/-0.0902	pCi/g						
Potassium-40				1.28 +/-0.883	pCi/g				MXR1	08/21/09	17:30
Sodium-22			U	-0.0458 +/-0.0679	pCi/g						
Thorium-228				1.51 +/-0.213	pCi/g						
Thorium-232				0.870 +/-0.645	pCi/g						
Uranium-235			U	0.031 +/-0.335	pCi/g						
Uranium-238			U	-0.849 +/-2.67	pCi/g						
QC1201906553		MB									
Americium-241			U	-0.0176 +/-0.0441	pCi/g					08/21/09	15:51
Cesium-134			U	0.000466 +/-0.0116	pCi/g						
Cesium-137			U	0.00114 +/-0.00949	pCi/g						
Cobalt-60			U	-0.00479 +/-0.0116	pCi/g						
Europium-152			U	-0.000363 +/-0.0287	pCi/g						
Europium-154			U	-0.0045 +/-0.0254	pCi/g						
Manganese-54			U	-0.00368 +/-0.00918	pCi/g						
Potassium-40			U	0.0772 +/-0.199	pCi/g						
Sodium-22			U	-0.00147 +/-0.00917	pCi/g						
Thorium-228			U	0.0141 +/-0.0264	pCi/g						
Thorium-232			U	-0.0478 +/-0.044	pCi/g						
Uranium-235			U	-0.0435 +/-0.0709	pCi/g						
Uranium-238			U	0.0622 +/-0.488	pCi/g						

Notes:

The Qualifiers in this report are defined as follows:

GEL LABORATORIES LLC

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

QC Summary

Workorder: 235617

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
**	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.										
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.



March 01, 2010

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

Re: SSFL
Project Number: 1891614.054521
Project Name: ISRA Sampling, June 2009
Work Order: 235805
SDG: 235805

Dear Ms. Elizabeth Wessling,

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

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4406.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.054521
Chain of Custody: MWHAR20090820_00
Enclosures

GC/MS Volatile Analysis

Volatile
Certificate of Analysis
Sample Summary

Page 1 of 3

SDG Number: 235805
Lab Sample ID: 235805001

Client: SSFL001
Date Collected: 08/20/2009 14:00
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Water

Client ID: EBQW2234
Batch ID: 897001
Run Date: 08/25/2009 13:47
Data File: 7a208.d
Prep Batch: 897001
Prep Date: 08/25/2009 13:47

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 8260B

Prep Basis: As Received
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-88-7	2-Chloro-1,1,1-trifluoroethane	U	10.0	ug/L	3.00	10.0	5.00
79-38-9	Chlorotrifluoroethylene	U	10.0	ug/L	3.00	10.0	5.00
75-71-8	Dichlorodifluoromethane	U	1.00	ug/L	0.300	1.00	5.00
74-87-3	Chloromethane	U	1.00	ug/L	0.300	1.00	5.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	2.00
74-83-9	Bromomethane	U	1.00	ug/L	0.300	1.00	5.00
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00	5.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.300	1.00	5.00
67-64-1	Acetone	U	5.00	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethene <i>1,1-Dichloroethylene</i>	U	1.00	ug/L	0.300	1.00	5.00
75-09-2	Methylene chloride	U	5.00	ug/L	2.00	5.00	5.00
1634-04-4	Methyl-tert-butyl Ether (MTBE) <i>tert-Butyl methyl ether</i>	U	1.00	ug/L	0.250	1.00	5.00
156-60-5	trans-1,2-Dichloroethene <i>trans-1,2-Dichloroethylene</i>	U	1.00	ug/L	0.300	1.00	2.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	2.00
78-93-3	2-Butanone (MEK) <i>2-Butanone</i>	U	5.00	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethene <i>cis-1,2-Dichloroethylene</i>	U	1.00	ug/L	0.300	1.00	2.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/L	0.300	1.00	1.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00	2.00
74-97-5	Bromochloromethane	U	1.00	ug/L	0.300	1.00	5.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.325	1.00	2.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/L	0.250	1.00	2.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.300	1.00	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	2.00
79-01-6	Trichloroethene <i>Trichloroethylene</i>	U	1.00	ug/L	0.250	1.00	2.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	2.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	2.00
74-95-3	Dibromomethane	U	1.00	ug/L	0.300	1.00	1.00
110-75-8	2-Chloroethyl vinyl ether <i>2-Chloroethylvinyl ether</i>	U	5.00	ug/L	1.50	5.00	5.00
108-10-1	4-Methyl-2-pentanone (MIBK) <i>4-Methyl-2-pentanone</i>	U	5.00	ug/L	1.25	5.00	5.00
10061-01-5	cis-1,3-Dichloropropene <i>cis-1,3-Dichloropropylene</i>	U	1.00	ug/L	0.250	1.00	2.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00	2.00

Comments:

J Value is estimated

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805001

Client: SSFL001
Date Collected: 08/20/2009 14:00
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Water

Client ID: EBQW2234
Batch ID: 897001
Run Date: 08/25/2009 13:47
Data File: 7a208.d
Prep Batch: 897001
Prep Date: 08/25/2009 13:47

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 8260B

Prep Basis: As Received
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
10061-02-6	trans-1,3-Dichloropropene <i>trans-1,3-Dichloropropylene</i>	U	1.00	ug/L	0.250	1.00	2.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	2.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00	10.0
142-28-9	1,3-Dichloropropane	U	1.00	ug/L	0.300	1.00	2.00
127-18-4	Tetrachloroethene <i>Tetrachloroethylene</i>	U	1.00	ug/L	0.300	1.00	2.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.300	1.00	2.00
106-93-4	1,2-Dibromoethane (EDB) <i>1,2-Dibromoethane</i>	U	1.00	ug/L	0.250	1.00	2.00
108-90-7	Chlorobenzene	J	0.353	ug/L	0.250	1.00	2.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00	2.00
179601-23-1	m,p-Xylenes	U	2.00	ug/L	0.500	2.00	2.00
95-47-6	o-Xylene	U	1.00	ug/L	0.300	1.00	2.00
100-42-5	Styrene	U	1.00	ug/L	0.250	1.00	2.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	5.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	2.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/L	0.300	1.00	1.00
108-86-1	Bromobenzene	U	1.00	ug/L	0.250	1.00	5.00
103-65-1	n-Propylbenzene	U	1.00	ug/L	0.250	1.00	2.00
95-49-8	2-Chlorotoluene	U	1.00	ug/L	0.250	1.00	5.00
98-82-8	Isopropylbenzene	U	1.00	ug/L	0.250	1.00	2.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/L	0.250	1.00	2.00
106-43-4	4-Chlorotoluene	U	1.00	ug/L	0.250	1.00	5.00
98-06-6	tert-Butylbenzene	U	1.00	ug/L	0.250	1.00	5.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/L	0.250	1.00	2.00
135-98-8	sec-Butylbenzene	U	1.00	ug/L	0.250	1.00	5.00
99-87-6	p-Isopropyltoluene <i>4-Isopropyltoluene</i>	U	1.00	ug/L	0.250	1.00	2.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	2.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	2.00
104-51-8	n-Butylbenzene	U	1.00	ug/L	0.250	1.00	5.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/L	0.300	1.00	5.00
87-68-3	Hexachlorobutadiene	U	1.00	ug/L	0.300	1.00	5.00
87-61-6	1,2,3-Trichlorobenzene	U	1.00	ug/L	0.332	1.00	5.00
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane <i>Trichlorotrifluoroethane</i>	U	5.00	ug/L	1.00	5.00	5.00

Comments:

J Value is estimated

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805001

Client: SSFL001
Date Collected: 08/20/2009 14:00
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Water

Client ID: EBQW2234
Batch ID: 897001
Run Date: 08/25/2009 13:47
Data File: 7a208.d
Prep Batch: 897001
Prep Date: 08/25/2009 13:47

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 8260B

Prep Basis: As Received
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/L	0.300	1.00	1.00
120-82-1	1,2,4-Trichlorobenzene	U	1.00	ug/L	0.300	1.00	5.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	2.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	45.0	50.0	ug/L	89.9	(59%-130%)
Bromofluorobenzene	46.5	50.0	ug/L	93.1	(71%-126%)
Toluene-d8	49.1	50.0	ug/L	98.3	(76%-129%)

Comments:

J Value is estimated

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805002

Client: SSFL001
Date Collected: 08/20/2009 09:40
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 2.9

Client ID: HZBS0173S001
Batch ID: 896999
Run Date: 08/25/2009 15:59
Data File: 7a212.d
Prep Batch: 896998
Prep Date: 08/21/2009 11:35

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 5035
Aliquot: 2.6 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-039
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-88-7	2-Chloro-1,1,1-trifluoroethane	U	19.8	ug/kg	5.94	19.8	5.00
79-38-9	Chlorotrifluoroethylene	U	19.8	ug/kg	5.94	19.8	5.00
75-71-8	Dichlorodifluoromethane	U	1.98	ug/kg	0.673	1.98	5.00
74-87-3	Chloromethane	U	1.98	ug/kg	0.594	1.98	5.00
75-01-4	Vinyl chloride	U	1.98	ug/kg	0.594	1.98	2.00
74-83-9	Bromomethane	U	1.98	ug/kg	0.594	1.98	5.00
75-00-3	Chloroethane	U	1.98	ug/kg	0.594	1.98	5.00
75-69-4	Trichlorofluoromethane	U	1.98	ug/kg	0.594	1.98	5.00
67-64-1	Acetone	U	9.90	ug/kg	3.29	9.90	10.0
75-35-4	1,1-Dichloroethene <i>1,1-Dichloroethylene</i>	U	1.98	ug/kg	0.594	1.98	5.00
75-09-2	Methylene chloride	U	9.90	ug/kg	3.96	9.90	5.00
1634-04-4	Methyl-tert-butyl Ether (MTBE) <i>tert-Butyl methyl ether</i>	U	1.98	ug/kg	0.594	1.98	5.00
156-60-5	trans-1,2-Dichloroethene <i>trans-1,2-Dichloroethylene</i>	U	1.98	ug/kg	0.594	1.98	2.00
75-34-3	1,1-Dichloroethane	U	1.98	ug/kg	0.594	1.98	2.00
78-93-3	2-Butanone (MEK) <i>2-Butanone</i>	U	9.90	ug/kg	2.97	9.90	10.0
156-59-2	cis-1,2-Dichloroethene <i>cis-1,2-Dichloroethylene</i>	U	1.98	ug/kg	0.594	1.98	2.00
594-20-7	2,2-Dichloropropane	U	1.98	ug/kg	0.594	1.98	1.00
67-66-3	Chloroform	U	1.98	ug/kg	0.594	1.98	2.00
74-97-5	Bromochloromethane	U	1.98	ug/kg	0.654	1.98	5.00
71-55-6	1,1,1-Trichloroethane	U	1.98	ug/kg	0.594	1.98	2.00
563-58-6	1,1-Dichloropropene	U	1.98	ug/kg	0.594	1.98	2.00
56-23-5	Carbon tetrachloride	U	1.98	ug/kg	0.594	1.98	1.00
107-06-2	1,2-Dichloroethane	U	1.98	ug/kg	0.594	1.98	2.00
71-43-2	Benzene	U	1.98	ug/kg	0.594	1.98	2.00
79-01-6	Trichloroethene <i>Trichloroethylene</i>	U	1.98	ug/kg	0.654	1.98	2.00
78-87-5	1,2-Dichloropropane	U	1.98	ug/kg	0.594	1.98	2.00
75-27-4	Bromodichloromethane	U	1.98	ug/kg	0.594	1.98	2.00
74-95-3	Dibromomethane	U	1.98	ug/kg	0.594	1.98	1.00
110-75-8	2-Chloroethyl vinyl ether <i>2-Chloroethylvinyl ether</i>	U	9.90	ug/kg	2.48	9.90	5.00
108-10-1	4-Methyl-2-pentanone (MIBK) <i>4-Methyl-2-pentanone</i>	U	9.90	ug/kg	2.48	9.90	5.00
10061-01-5	cis-1,3-Dichloropropene <i>cis-1,3-Dichloropropylene</i>	U	1.98	ug/kg	0.594	1.98	2.00
108-88-3	Toluene	U	1.98	ug/kg	0.594	1.98	2.00

Comments:

J Value is estimated

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805002

Client: SSFL001
Date Collected: 08/20/2009 09:40
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 2.9

Client ID: HZBS0173S001
Batch ID: 896999
Run Date: 08/25/2009 15:59
Data File: 7a212.d
Prep Batch: 896998
Prep Date: 08/21/2009 11:35

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 5035
Aliquot: 2.6 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-039
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
10061-02-6	trans-1,3-Dichloropropene <i>trans-1,3-Dichloropropylene</i>	U	1.98	ug/kg	0.594	1.98	2.00
79-00-5	1,1,2-Trichloroethane	U	1.98	ug/kg	0.594	1.98	2.00
591-78-6	2-Hexanone	U	9.90	ug/kg	2.97	9.90	10.0
142-28-9	1,3-Dichloropropane	U	1.98	ug/kg	0.594	1.98	2.00
127-18-4	Tetrachloroethene <i>Tetrachloroethylene</i>	U	1.98	ug/kg	0.594	1.98	2.00
124-48-1	Dibromochloromethane	U	1.98	ug/kg	0.594	1.98	2.00
106-93-4	1,2-Dibromoethane (EDB) <i>1,2-Dibromoethane</i>	U	1.98	ug/kg	0.594	1.98	2.00
108-90-7	Chlorobenzene	U	1.98	ug/kg	0.594	1.98	2.00
100-41-4	Ethylbenzene	U	1.98	ug/kg	0.594	1.98	2.00
179601-23-1	m,p-Xylenes	U	3.96	ug/kg	0.594	3.96	2.00
95-47-6	o-Xylene	U	1.98	ug/kg	0.594	1.98	2.00
100-42-5	Styrene	J	0.858	ug/kg	0.594	1.98	2.00
75-25-2	Bromoform	U	1.98	ug/kg	0.594	1.98	5.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.98	ug/kg	0.594	1.98	2.00
96-18-4	1,2,3-Trichloropropane	U	1.98	ug/kg	0.594	1.98	1.00
108-86-1	Bromobenzene	U	1.98	ug/kg	0.594	1.98	5.00
103-65-1	n-Propylbenzene	U	1.98	ug/kg	0.594	1.98	2.00
95-49-8	2-Chlorotoluene	U	1.98	ug/kg	0.594	1.98	5.00
98-82-8	Isopropylbenzene	U	1.98	ug/kg	0.594	1.98	2.00
108-67-8	1,3,5-Trimethylbenzene	U	1.98	ug/kg	0.594	1.98	2.00
106-43-4	4-Chlorotoluene	U	1.98	ug/kg	0.594	1.98	5.00
98-06-6	tert-Butylbenzene	U	1.98	ug/kg	0.594	1.98	5.00
95-63-6	1,2,4-Trimethylbenzene	U	1.98	ug/kg	0.594	1.98	2.00
135-98-8	sec-Butylbenzene	U	1.98	ug/kg	0.594	1.98	5.00
99-87-6	p-Isopropyltoluene <i>4-Isopropyltoluene</i>	U	1.98	ug/kg	0.594	1.98	2.00
541-73-1	1,3-Dichlorobenzene	U	1.98	ug/kg	0.594	1.98	2.00
106-46-7	1,4-Dichlorobenzene	U	1.98	ug/kg	0.594	1.98	2.00
104-51-8	n-Butylbenzene	U	1.98	ug/kg	0.594	1.98	5.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.98	ug/kg	0.594	1.98	5.00
87-68-3	Hexachlorobutadiene	U	1.98	ug/kg	0.594	1.98	5.00
87-61-6	1,2,3-Trichlorobenzene	U	1.98	ug/kg	0.594	1.98	5.00
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane <i>Trichlorotrifluoroethane</i>	U	9.90	ug/kg	3.17	9.90	5.00

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805002

Client: SSFL001
Date Collected: 08/20/2009 09:40
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 2.9

Client ID: HZBS0173S001
Batch ID: 896999
Run Date: 08/25/2009 15:59
Data File: 7a212.d
Prep Batch: 896998
Prep Date: 08/21/2009 11:35

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 5035
Aliquot: 2.6 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-039
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
630-20-6	1,1,1,2-Tetrachloroethane	U	1.98	ug/kg	0.594	1.98	1.00
120-82-1	1,2,4-Trichlorobenzene	U	1.98	ug/kg	0.594	1.98	5.00
95-50-1	1,2-Dichlorobenzene	U	1.98	ug/kg	0.594	1.98	2.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	43.9	50.0	ug/L	87.8	(68%-131%)
Bromofluorobenzene	47.0	50.0	ug/L	93.9	(68%-133%)
Toluene-d8	48.4	50.0	ug/L	96.8	(75%-129%)

Comments:

J Value is estimated

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805003

Client: SSFL001
Date Collected: 08/20/2009 09:57
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 6.1

Client ID: HZBS0173S002
Batch ID: 896999
Run Date: 08/25/2009 16:32
Data File: 7a213.d
Prep Batch: 896998
Prep Date: 08/21/2009 11:42

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 5035
Aliquot: 3.7 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-039
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-88-7	2-Chloro-1,1,1-trifluoroethane	U	14.4	ug/kg	4.32	14.4	5.00
79-38-9	Chlorotrifluoroethylene	U	14.4	ug/kg	4.32	14.4	5.00
75-71-8	Dichlorodifluoromethane	U	1.44	ug/kg	0.489	1.44	5.00
74-87-3	Chloromethane	U	1.44	ug/kg	0.432	1.44	5.00
75-01-4	Vinyl chloride	U	1.44	ug/kg	0.432	1.44	2.00
74-83-9	Bromomethane	U	1.44	ug/kg	0.432	1.44	5.00
75-00-3	Chloroethane	U	1.44	ug/kg	0.432	1.44	5.00
75-69-4	Trichlorofluoromethane	U	1.44	ug/kg	0.432	1.44	5.00
67-64-1	Acetone		39.9	ug/kg	2.39	7.20	10.0
75-35-4	1,1-Dichloroethene <i>1,1-Dichloroethylene</i>	U	1.44	ug/kg	0.432	1.44	5.00
75-09-2	Methylene chloride	U	7.20	ug/kg	2.88	7.20	5.00
1634-04-4	Methyl-tert-butyl Ether (MTBE) <i>tert-Butyl methyl ether</i>	U	1.44	ug/kg	0.432	1.44	5.00
156-60-5	trans-1,2-Dichloroethene <i>trans-1,2-Dichloroethylene</i>	U	1.44	ug/kg	0.432	1.44	2.00
75-34-3	1,1-Dichloroethane	U	1.44	ug/kg	0.432	1.44	2.00
78-93-3	2-Butanone (MEK) <i>2-Butanone</i>	U	7.20	ug/kg	2.16	7.20	10.0
156-59-2	cis-1,2-Dichloroethene <i>cis-1,2-Dichloroethylene</i>	U	1.44	ug/kg	0.432	1.44	2.00
594-20-7	2,2-Dichloropropane	U	1.44	ug/kg	0.432	1.44	1.00
67-66-3	Chloroform	U	1.44	ug/kg	0.432	1.44	2.00
74-97-5	Bromochloromethane	U	1.44	ug/kg	0.475	1.44	5.00
71-55-6	1,1,1-Trichloroethane	U	1.44	ug/kg	0.432	1.44	2.00
563-58-6	1,1-Dichloropropene	U	1.44	ug/kg	0.432	1.44	2.00
56-23-5	Carbon tetrachloride	U	1.44	ug/kg	0.432	1.44	1.00
107-06-2	1,2-Dichloroethane	U	1.44	ug/kg	0.432	1.44	2.00
71-43-2	Benzene	U	1.44	ug/kg	0.432	1.44	2.00
79-01-6	Trichloroethene <i>Trichloroethylene</i>	U	1.44	ug/kg	0.475	1.44	2.00
78-87-5	1,2-Dichloropropane	U	1.44	ug/kg	0.432	1.44	2.00
75-27-4	Bromodichloromethane	U	1.44	ug/kg	0.432	1.44	2.00
74-95-3	Dibromomethane	U	1.44	ug/kg	0.432	1.44	1.00
110-75-8	2-Chloroethyl vinyl ether <i>2-Chloroethylvinyl ether</i>	U	7.20	ug/kg	1.80	7.20	5.00
108-10-1	4-Methyl-2-pentanone (MIBK) <i>4-Methyl-2-pentanone</i>	U	7.20	ug/kg	1.80	7.20	5.00
10061-01-5	cis-1,3-Dichloropropene <i>cis-1,3-Dichloropropylene</i>	U	1.44	ug/kg	0.432	1.44	2.00
108-88-3	Toluene	U	1.44	ug/kg	0.432	1.44	2.00

Comments:

J Value is estimated

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805003

Client: SSFL001
Date Collected: 08/20/2009 09:57
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 6.1

Client ID: HZBS0173S002
Batch ID: 896999
Run Date: 08/25/2009 16:32
Data File: 7a213.d
Prep Batch: 896998
Prep Date: 08/21/2009 11:42

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 5035
Aliquot: 3.7 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-039
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
10061-02-6	trans-1,3-Dichloropropene <i>trans-1,3-Dichloropropylene</i>	U	1.44	ug/kg	0.432	1.44	2.00
79-00-5	1,1,2-Trichloroethane	U	1.44	ug/kg	0.432	1.44	2.00
591-78-6	2-Hexanone	U	7.20	ug/kg	2.16	7.20	10.0
142-28-9	1,3-Dichloropropane	U	1.44	ug/kg	0.432	1.44	2.00
127-18-4	Tetrachloroethene <i>Tetrachloroethylene</i>	U	1.44	ug/kg	0.432	1.44	2.00
124-48-1	Dibromochloromethane	U	1.44	ug/kg	0.432	1.44	2.00
106-93-4	1,2-Dibromoethane (EDB) <i>1,2-Dibromoethane</i>	U	1.44	ug/kg	0.432	1.44	2.00
108-90-7	Chlorobenzene	U	1.44	ug/kg	0.432	1.44	2.00
100-41-4	Ethylbenzene	U	1.44	ug/kg	0.432	1.44	2.00
179601-23-1	m,p-Xylenes	U	2.88	ug/kg	0.432	2.88	2.00
95-47-6	o-Xylene	U	1.44	ug/kg	0.432	1.44	2.00
100-42-5	Styrene	J	0.724	ug/kg	0.432	1.44	2.00
75-25-2	Bromoform	U	1.44	ug/kg	0.432	1.44	5.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.44	ug/kg	0.432	1.44	2.00
96-18-4	1,2,3-Trichloropropane	U	1.44	ug/kg	0.432	1.44	1.00
108-86-1	Bromobenzene	U	1.44	ug/kg	0.432	1.44	5.00
103-65-1	n-Propylbenzene	U	1.44	ug/kg	0.432	1.44	2.00
95-49-8	2-Chlorotoluene	U	1.44	ug/kg	0.432	1.44	5.00
98-82-8	Isopropylbenzene	U	1.44	ug/kg	0.432	1.44	2.00
108-67-8	1,3,5-Trimethylbenzene	U	1.44	ug/kg	0.432	1.44	2.00
106-43-4	4-Chlorotoluene	U	1.44	ug/kg	0.432	1.44	5.00
98-06-6	tert-Butylbenzene	U	1.44	ug/kg	0.432	1.44	5.00
95-63-6	1,2,4-Trimethylbenzene	U	1.44	ug/kg	0.432	1.44	2.00
135-98-8	sec-Butylbenzene	U	1.44	ug/kg	0.432	1.44	5.00
99-87-6	p-Isopropyltoluene <i>4-Isopropyltoluene</i>	U	1.44	ug/kg	0.432	1.44	2.00
541-73-1	1,3-Dichlorobenzene	U	1.44	ug/kg	0.432	1.44	2.00
106-46-7	1,4-Dichlorobenzene	U	1.44	ug/kg	0.432	1.44	2.00
104-51-8	n-Butylbenzene	U	1.44	ug/kg	0.432	1.44	5.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.44	ug/kg	0.432	1.44	5.00
87-68-3	Hexachlorobutadiene	U	1.44	ug/kg	0.432	1.44	5.00
87-61-6	1,2,3-Trichlorobenzene	U	1.44	ug/kg	0.432	1.44	5.00
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane <i>Trichlorotrifluoroethane</i>	U	7.20	ug/kg	2.30	7.20	5.00

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805003

Client: SSFL001
Date Collected: 08/20/2009 09:57
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 6.1

Client ID: HZBS0173S002
Batch ID: 896999
Run Date: 08/25/2009 16:32
Data File: 7a213.d
Prep Batch: 896998
Prep Date: 08/21/2009 11:42

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 5035
Aliquot: 3.7 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-039
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
630-20-6	1,1,1,2-Tetrachloroethane	U	1.44	ug/kg	0.432	1.44	1.00
120-82-1	1,2,4-Trichlorobenzene	U	1.44	ug/kg	0.432	1.44	5.00
95-50-1	1,2-Dichlorobenzene	U	1.44	ug/kg	0.432	1.44	2.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	43.0	50.0	ug/L	86.1	(68%-131%)
Bromofluorobenzene	54.9	50.0	ug/L	110	(68%-133%)
Toluene-d8	53.3	50.0	ug/L	107	(75%-129%)

Comments:

J Value is estimated

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805004

Client: SSFL001
Date Collected: 08/20/2009 10:35
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.6

Client ID: HZBS0174S001
Batch ID: 896999
Run Date: 08/25/2009 17:05
Data File: 7a214.d
Prep Batch: 896998
Prep Date: 08/21/2009 11:48

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 5035
Aliquot: 4.4 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-039
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-88-7	2-Chloro-1,1,1-trifluoroethane	U	11.9	ug/kg	3.57	11.9	5.00
79-38-9	Chlorotrifluoroethylene	U	11.9	ug/kg	3.57	11.9	5.00
75-71-8	Dichlorodifluoromethane	U	1.19	ug/kg	0.405	1.19	5.00
74-87-3	Chloromethane	U	1.19	ug/kg	0.357	1.19	5.00
75-01-4	Vinyl chloride	U	1.19	ug/kg	0.357	1.19	2.00
74-83-9	Bromomethane	U	1.19	ug/kg	0.357	1.19	5.00
75-00-3	Chloroethane	U	1.19	ug/kg	0.357	1.19	5.00
75-69-4	Trichlorofluoromethane	U	1.19	ug/kg	0.357	1.19	5.00
67-64-1	Acetone		7.73	ug/kg	1.98	5.96	10.0
75-35-4	1,1-Dichloroethene <i>1,1-Dichloroethylene</i>	U	1.19	ug/kg	0.357	1.19	5.00
75-09-2	Methylene chloride	U	5.96	ug/kg	2.38	5.96	5.00
1634-04-4	Methyl-tert-butyl Ether (MTBE) <i>tert-Butyl methyl ether</i>	U	1.19	ug/kg	0.357	1.19	5.00
156-60-5	trans-1,2-Dichloroethene <i>trans-1,2-Dichloroethylene</i>	U	1.19	ug/kg	0.357	1.19	2.00
75-34-3	1,1-Dichloroethane	U	1.19	ug/kg	0.357	1.19	2.00
78-93-3	2-Butanone (MEK) <i>2-Butanone</i>	U	5.96	ug/kg	1.79	5.96	10.0
156-59-2	cis-1,2-Dichloroethene <i>cis-1,2-Dichloroethylene</i>	U	1.19	ug/kg	0.357	1.19	2.00
594-20-7	2,2-Dichloropropane	U	1.19	ug/kg	0.357	1.19	1.00
67-66-3	Chloroform	U	1.19	ug/kg	0.357	1.19	2.00
74-97-5	Bromochloromethane	U	1.19	ug/kg	0.393	1.19	5.00
71-55-6	1,1,1-Trichloroethane	U	1.19	ug/kg	0.357	1.19	2.00
563-58-6	1,1-Dichloropropene	U	1.19	ug/kg	0.357	1.19	2.00
56-23-5	Carbon tetrachloride	U	1.19	ug/kg	0.357	1.19	1.00
107-06-2	1,2-Dichloroethane	U	1.19	ug/kg	0.357	1.19	2.00
71-43-2	Benzene	U	1.19	ug/kg	0.357	1.19	2.00
79-01-6	Trichloroethene <i>Trichloroethylene</i>	U	1.19	ug/kg	0.393	1.19	2.00
78-87-5	1,2-Dichloropropane	U	1.19	ug/kg	0.357	1.19	2.00
75-27-4	Bromodichloromethane	U	1.19	ug/kg	0.357	1.19	2.00
74-95-3	Dibromomethane	U	1.19	ug/kg	0.357	1.19	1.00
110-75-8	2-Chloroethyl vinyl ether <i>2-Chloroethylvinyl ether</i>	U	5.96	ug/kg	1.49	5.96	5.00
108-10-1	4-Methyl-2-pentanone (MIBK) <i>4-Methyl-2-pentanone</i>	U	5.96	ug/kg	1.49	5.96	5.00
10061-01-5	cis-1,3-Dichloropropene <i>cis-1,3-Dichloropropylene</i>	U	1.19	ug/kg	0.357	1.19	2.00
108-88-3	Toluene	U	1.19	ug/kg	0.357	1.19	2.00

Comments:

J Value is estimated

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805004

Client: SSFL001
Date Collected: 08/20/2009 10:35
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.6

Client ID: HZBS0174S001
Batch ID: 896999
Run Date: 08/25/2009 17:05
Data File: 7a214.d
Prep Batch: 896998
Prep Date: 08/21/2009 11:48

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 5035
Aliquot: 4.4 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-039
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
10061-02-6	trans-1,3-Dichloropropene <i>trans-1,3-Dichloropropylene</i>	U	1.19	ug/kg	0.357	1.19	2.00
79-00-5	1,1,2-Trichloroethane	U	1.19	ug/kg	0.357	1.19	2.00
591-78-6	2-Hexanone	U	5.96	ug/kg	1.79	5.96	10.0
142-28-9	1,3-Dichloropropane	U	1.19	ug/kg	0.357	1.19	2.00
127-18-4	Tetrachloroethene <i>Tetrachloroethylene</i>	U	1.19	ug/kg	0.357	1.19	2.00
124-48-1	Dibromochloromethane	U	1.19	ug/kg	0.357	1.19	2.00
106-93-4	1,2-Dibromoethane (EDB) <i>1,2-Dibromoethane</i>	U	1.19	ug/kg	0.357	1.19	2.00
108-90-7	Chlorobenzene	U	1.19	ug/kg	0.357	1.19	2.00
100-41-4	Ethylbenzene	U	1.19	ug/kg	0.357	1.19	2.00
179601-23-1	m,p-Xylenes	U	2.38	ug/kg	0.357	2.38	2.00
95-47-6	o-Xylene	U	1.19	ug/kg	0.357	1.19	2.00
100-42-5	Styrene	J	0.471	ug/kg	0.357	1.19	2.00
75-25-2	Bromoform	U	1.19	ug/kg	0.357	1.19	5.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.19	ug/kg	0.357	1.19	2.00
96-18-4	1,2,3-Trichloropropane	U	1.19	ug/kg	0.357	1.19	1.00
108-86-1	Bromobenzene	U	1.19	ug/kg	0.357	1.19	5.00
103-65-1	n-Propylbenzene	U	1.19	ug/kg	0.357	1.19	2.00
95-49-8	2-Chlorotoluene	U	1.19	ug/kg	0.357	1.19	5.00
98-82-8	Isopropylbenzene	U	1.19	ug/kg	0.357	1.19	2.00
108-67-8	1,3,5-Trimethylbenzene	U	1.19	ug/kg	0.357	1.19	2.00
106-43-4	4-Chlorotoluene	U	1.19	ug/kg	0.357	1.19	5.00
98-06-6	tert-Butylbenzene	U	1.19	ug/kg	0.357	1.19	5.00
95-63-6	1,2,4-Trimethylbenzene	U	1.19	ug/kg	0.357	1.19	2.00
135-98-8	sec-Butylbenzene	U	1.19	ug/kg	0.357	1.19	5.00
99-87-6	p-Isopropyltoluene <i>4-Isopropyltoluene</i>	U	1.19	ug/kg	0.357	1.19	2.00
541-73-1	1,3-Dichlorobenzene	U	1.19	ug/kg	0.357	1.19	2.00
106-46-7	1,4-Dichlorobenzene	U	1.19	ug/kg	0.357	1.19	2.00
104-51-8	n-Butylbenzene	U	1.19	ug/kg	0.357	1.19	5.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.19	ug/kg	0.357	1.19	5.00
87-68-3	Hexachlorobutadiene	U	1.19	ug/kg	0.357	1.19	5.00
87-61-6	1,2,3-Trichlorobenzene	U	1.19	ug/kg	0.357	1.19	5.00
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane <i>Trichlorotrifluoroethane</i>	U	5.96	ug/kg	1.91	5.96	5.00

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805004

Client: SSFL001
Date Collected: 08/20/2009 10:35
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.6

Client ID: HZBS0174S001
Batch ID: 896999
Run Date: 08/25/2009 17:05
Data File: 7a214.d
Prep Batch: 896998
Prep Date: 08/21/2009 11:48

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 5035
Aliquot: 4.4 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-039
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
630-20-6	1,1,1,2-Tetrachloroethane	U	1.19	ug/kg	0.357	1.19	1.00
120-82-1	1,2,4-Trichlorobenzene	U	1.19	ug/kg	0.357	1.19	5.00
95-50-1	1,2-Dichlorobenzene	U	1.19	ug/kg	0.357	1.19	2.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	43.5	50.0	ug/L	87.0	(68%-131%)
Bromofluorobenzene	47.8	50.0	ug/L	95.6	(68%-133%)
Toluene-d8	49.2	50.0	ug/L	98.5	(75%-129%)

Comments:

J Value is estimated

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805005

Client: SSFL001
Date Collected: 08/20/2009 10:56
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.8

Client ID: HZBS0174S002
Batch ID: 896999
Run Date: 08/25/2009 17:38
Data File: 7a215.d
Prep Batch: 896998
Prep Date: 08/21/2009 11:54

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 5035
Aliquot: 4.8 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-039
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-88-7	2-Chloro-1,1,1-trifluoroethane	U	10.9	ug/kg	3.28	10.9	5.00
79-38-9	Chlorotrifluoroethylene	U	10.9	ug/kg	3.28	10.9	5.00
75-71-8	Dichlorodifluoromethane	U	1.09	ug/kg	0.372	1.09	5.00
74-87-3	Chloromethane	U	1.09	ug/kg	0.328	1.09	5.00
75-01-4	Vinyl chloride	U	1.09	ug/kg	0.328	1.09	2.00
74-83-9	Bromomethane	U	1.09	ug/kg	0.328	1.09	5.00
75-00-3	Chloroethane	U	1.09	ug/kg	0.328	1.09	5.00
75-69-4	Trichlorofluoromethane	U	1.09	ug/kg	0.328	1.09	5.00
67-64-1	Acetone	U	5.47	ug/kg	1.82	5.47	10.0
75-35-4	1,1-Dichloroethene <i>1,1-Dichloroethylene</i>	U	1.09	ug/kg	0.328	1.09	5.00
75-09-2	Methylene chloride	U	5.47	ug/kg	2.19	5.47	5.00
1634-04-4	Methyl-tert-butyl Ether (MTBE) <i>tert-Butyl methyl ether</i>	U	1.09	ug/kg	0.328	1.09	5.00
156-60-5	trans-1,2-Dichloroethene <i>trans-1,2-Dichloroethylene</i>	U	1.09	ug/kg	0.328	1.09	2.00
75-34-3	1,1-Dichloroethane	U	1.09	ug/kg	0.328	1.09	2.00
78-93-3	2-Butanone (MEK) <i>2-Butanone</i>	U	5.47	ug/kg	1.64	5.47	10.0
156-59-2	cis-1,2-Dichloroethene <i>cis-1,2-Dichloroethylene</i>	U	1.09	ug/kg	0.328	1.09	2.00
594-20-7	2,2-Dichloropropane	U	1.09	ug/kg	0.328	1.09	1.00
67-66-3	Chloroform	U	1.09	ug/kg	0.328	1.09	2.00
74-97-5	Bromochloromethane	U	1.09	ug/kg	0.361	1.09	5.00
71-55-6	1,1,1-Trichloroethane	U	1.09	ug/kg	0.328	1.09	2.00
563-58-6	1,1-Dichloropropene	U	1.09	ug/kg	0.328	1.09	2.00
56-23-5	Carbon tetrachloride	U	1.09	ug/kg	0.328	1.09	1.00
107-06-2	1,2-Dichloroethane	U	1.09	ug/kg	0.328	1.09	2.00
71-43-2	Benzene	U	1.09	ug/kg	0.328	1.09	2.00
79-01-6	Trichloroethene <i>Trichloroethylene</i>	U	1.09	ug/kg	0.361	1.09	2.00
78-87-5	1,2-Dichloropropane	U	1.09	ug/kg	0.328	1.09	2.00
75-27-4	Bromodichloromethane	U	1.09	ug/kg	0.328	1.09	2.00
74-95-3	Dibromomethane	U	1.09	ug/kg	0.328	1.09	1.00
110-75-8	2-Chloroethyl vinyl ether <i>2-Chloroethylvinyl ether</i>	U	5.47	ug/kg	1.37	5.47	5.00
108-10-1	4-Methyl-2-pentanone (MIBK) <i>4-Methyl-2-pentanone</i>	U	5.47	ug/kg	1.37	5.47	5.00
10061-01-5	cis-1,3-Dichloropropene <i>cis-1,3-Dichloropropylene</i>	U	1.09	ug/kg	0.328	1.09	2.00
108-88-3	Toluene	U	1.09	ug/kg	0.328	1.09	2.00

Comments:

J Value is estimated

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805005

Client: SSFL001
Date Collected: 08/20/2009 10:56
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.8

Client ID: HZBS0174S002
Batch ID: 896999
Run Date: 08/25/2009 17:38
Data File: 7a215.d
Prep Batch: 896998
Prep Date: 08/21/2009 11:54

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 5035
Aliquot: 4.8 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-039
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
10061-02-6	trans-1,3-Dichloropropene <i>trans-1,3-Dichloropropylene</i>	U	1.09	ug/kg	0.328	1.09	2.00
79-00-5	1,1,2-Trichloroethane	U	1.09	ug/kg	0.328	1.09	2.00
591-78-6	2-Hexanone	U	5.47	ug/kg	1.64	5.47	10.0
142-28-9	1,3-Dichloropropane	U	1.09	ug/kg	0.328	1.09	2.00
127-18-4	Tetrachloroethene <i>Tetrachloroethylene</i>	U	1.09	ug/kg	0.328	1.09	2.00
124-48-1	Dibromochloromethane	U	1.09	ug/kg	0.328	1.09	2.00
106-93-4	1,2-Dibromoethane (EDB) <i>1,2-Dibromoethane</i>	U	1.09	ug/kg	0.328	1.09	2.00
108-90-7	Chlorobenzene	U	1.09	ug/kg	0.328	1.09	2.00
100-41-4	Ethylbenzene	U	1.09	ug/kg	0.328	1.09	2.00
179601-23-1	m,p-Xylenes	U	2.19	ug/kg	0.328	2.19	2.00
95-47-6	o-Xylene	U	1.09	ug/kg	0.328	1.09	2.00
100-42-5	Styrene	J	0.371	ug/kg	0.328	1.09	2.00
75-25-2	Bromoform	U	1.09	ug/kg	0.328	1.09	5.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.09	ug/kg	0.328	1.09	2.00
96-18-4	1,2,3-Trichloropropane	U	1.09	ug/kg	0.328	1.09	1.00
108-86-1	Bromobenzene	U	1.09	ug/kg	0.328	1.09	5.00
103-65-1	n-Propylbenzene	U	1.09	ug/kg	0.328	1.09	2.00
95-49-8	2-Chlorotoluene	U	1.09	ug/kg	0.328	1.09	5.00
98-82-8	Isopropylbenzene	U	1.09	ug/kg	0.328	1.09	2.00
108-67-8	1,3,5-Trimethylbenzene	U	1.09	ug/kg	0.328	1.09	2.00
106-43-4	4-Chlorotoluene	U	1.09	ug/kg	0.328	1.09	5.00
98-06-6	tert-Butylbenzene	U	1.09	ug/kg	0.328	1.09	5.00
95-63-6	1,2,4-Trimethylbenzene	U	1.09	ug/kg	0.328	1.09	2.00
135-98-8	sec-Butylbenzene	U	1.09	ug/kg	0.328	1.09	5.00
99-87-6	p-Isopropyltoluene <i>4-Isopropyltoluene</i>	U	1.09	ug/kg	0.328	1.09	2.00
541-73-1	1,3-Dichlorobenzene	U	1.09	ug/kg	0.328	1.09	2.00
106-46-7	1,4-Dichlorobenzene	U	1.09	ug/kg	0.328	1.09	2.00
104-51-8	n-Butylbenzene	U	1.09	ug/kg	0.328	1.09	5.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.09	ug/kg	0.328	1.09	5.00
87-68-3	Hexachlorobutadiene	U	1.09	ug/kg	0.328	1.09	5.00
87-61-6	1,2,3-Trichlorobenzene	U	1.09	ug/kg	0.328	1.09	5.00
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane <i>Trichlorotrifluoroethane</i>	U	5.47	ug/kg	1.75	5.47	5.00

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805005

Client: SSFL001
Date Collected: 08/20/2009 10:56
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.8

Client ID: HZBS0174S002
Batch ID: 896999
Run Date: 08/25/2009 17:38
Data File: 7a215.d
Prep Batch: 896998
Prep Date: 08/21/2009 11:54

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 5035
Aliquot: 4.8 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1
Prep SOP Ref: GL-OA-E-039
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
630-20-6	1,1,1,2-Tetrachloroethane	U	1.09	ug/kg	0.328	1.09	1.00
120-82-1	1,2,4-Trichlorobenzene	U	1.09	ug/kg	0.328	1.09	5.00
95-50-1	1,2-Dichlorobenzene	U	1.09	ug/kg	0.328	1.09	2.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	40.7	50.0	ug/L	81.4	(68%-131%)
Bromofluorobenzene	42.7	50.0	ug/L	85.4	(68%-133%)
Toluene-d8	45.2	50.0	ug/L	90.5	(75%-129%)

Comments:

J Value is estimated

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

Volatile
Certificate of Analysis
Sample Summary

Page 1 of 3

SDG Number: 235805
Lab Sample ID: 235805006

Client: SSFL001
Date Collected: 08/20/2009 08:49
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Water

Client ID: HZTB2003T001
Batch ID: 897001
Run Date: 08/25/2009 14:20
Data File: 7a209.d
Prep Batch: 897001
Prep Date: 08/25/2009 14:20

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 8260B

Prep Basis: As Received
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-88-7	2-Chloro-1,1,1-trifluoroethane	U	10.0	ug/L	3.00	10.0	5.00
79-38-9	Chlorotrifluoroethylene	U	10.0	ug/L	3.00	10.0	5.00
75-71-8	Dichlorodifluoromethane	U	1.00	ug/L	0.300	1.00	5.00
74-87-3	Chloromethane	U	1.00	ug/L	0.300	1.00	5.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	2.00
74-83-9	Bromomethane	U	1.00	ug/L	0.300	1.00	5.00
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00	5.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.300	1.00	5.00
67-64-1	Acetone	U	5.00	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethene <i>1,1-Dichloroethylene</i>	U	1.00	ug/L	0.300	1.00	5.00
75-09-2	Methylene chloride	U	5.00	ug/L	2.00	5.00	5.00
1634-04-4	Methyl-tert-butyl Ether (MTBE) <i>tert-Butyl methyl ether</i>	U	1.00	ug/L	0.250	1.00	5.00
156-60-5	trans-1,2-Dichloroethene <i>trans-1,2-Dichloroethylene</i>	U	1.00	ug/L	0.300	1.00	2.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	2.00
78-93-3	2-Butanone (MEK) <i>2-Butanone</i>	U	5.00	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethene <i>cis-1,2-Dichloroethylene</i>	U	1.00	ug/L	0.300	1.00	2.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/L	0.300	1.00	1.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00	2.00
74-97-5	Bromochloromethane	U	1.00	ug/L	0.300	1.00	5.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.325	1.00	2.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/L	0.250	1.00	2.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.300	1.00	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	2.00
79-01-6	Trichloroethene <i>Trichloroethylene</i>	U	1.00	ug/L	0.250	1.00	2.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	2.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	2.00
74-95-3	Dibromomethane	U	1.00	ug/L	0.300	1.00	1.00
110-75-8	2-Chloroethyl vinyl ether <i>2-Chloroethylvinyl ether</i>	U	5.00	ug/L	1.50	5.00	5.00
108-10-1	4-Methyl-2-pentanone (MIBK) <i>4-Methyl-2-pentanone</i>	U	5.00	ug/L	1.25	5.00	5.00
10061-01-5	cis-1,3-Dichloropropene <i>cis-1,3-Dichloropropylene</i>	U	1.00	ug/L	0.250	1.00	2.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00	2.00

Comments:

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
Lab Sample ID: 235805006

Client: SSFL001
Date Collected: 08/20/2009 08:49
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Water

Client ID: HZTB2003T001
Batch ID: 897001
Run Date: 08/25/2009 14:20
Data File: 7a209.d
Prep Batch: 897001
Prep Date: 08/25/2009 14:20

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 8260B

Prep Basis: As Received
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
10061-02-6	trans-1,3-Dichloropropene <i>trans-1,3-Dichloropropylene</i>	U	1.00	ug/L	0.250	1.00	2.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	2.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00	10.0
142-28-9	1,3-Dichloropropane	U	1.00	ug/L	0.300	1.00	2.00
127-18-4	Tetrachloroethene <i>Tetrachloroethylene</i>	U	1.00	ug/L	0.300	1.00	2.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.300	1.00	2.00
106-93-4	1,2-Dibromoethane (EDB) <i>1,2-Dibromoethane</i>	U	1.00	ug/L	0.250	1.00	2.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	2.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00	2.00
179601-23-1	m,p-Xylenes	U	2.00	ug/L	0.500	2.00	2.00
95-47-6	o-Xylene	U	1.00	ug/L	0.300	1.00	2.00
100-42-5	Styrene	U	1.00	ug/L	0.250	1.00	2.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	5.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	2.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/L	0.300	1.00	1.00
108-86-1	Bromobenzene	U	1.00	ug/L	0.250	1.00	5.00
103-65-1	n-Propylbenzene	U	1.00	ug/L	0.250	1.00	2.00
95-49-8	2-Chlorotoluene	U	1.00	ug/L	0.250	1.00	5.00
98-82-8	Isopropylbenzene	U	1.00	ug/L	0.250	1.00	2.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/L	0.250	1.00	2.00
106-43-4	4-Chlorotoluene	U	1.00	ug/L	0.250	1.00	5.00
98-06-6	tert-Butylbenzene	U	1.00	ug/L	0.250	1.00	5.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/L	0.250	1.00	2.00
135-98-8	sec-Butylbenzene	U	1.00	ug/L	0.250	1.00	5.00
99-87-6	p-Isopropyltoluene <i>4-Isopropyltoluene</i>	U	1.00	ug/L	0.250	1.00	2.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	2.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	2.00
104-51-8	n-Butylbenzene	U	1.00	ug/L	0.250	1.00	5.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/L	0.300	1.00	5.00
87-68-3	Hexachlorobutadiene	U	1.00	ug/L	0.300	1.00	5.00
87-61-6	1,2,3-Trichlorobenzene	U	1.00	ug/L	0.332	1.00	5.00
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane <i>Trichlorotrifluoroethane</i>	U	5.00	ug/L	1.00	5.00	5.00

Comments:

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235805
 Lab Sample ID: 235805006

Client: SSFL001
 Date Collected: 08/20/2009 08:49
 Date Received: 08/21/2009 08:40

Project: SSFL00149
 Matrix: Water

Client ID: HZTB2003T001
 Batch ID: 897001
 Run Date: 08/25/2009 14:20
 Data File: 7a209.d
 Prep Batch: 897001
 Prep Date: 08/25/2009 14:20

Method: SW846 8260B
 Analyst: AXO1
 Purge Vol: 5 mL
 Prep Method: SW846 8260B

Prep Basis: As Received
 SOP Ref: GL-OA-E-038
 Instrument: VOA7.I
 Dilution: 1

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/L	0.300	1.00	1.00
120-82-1	1,2,4-Trichlorobenzene	U	1.00	ug/L	0.300	1.00	5.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	2.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	42.1	50.0	ug/L	84.3	(59%-130%)
Bromofluorobenzene	42.9	50.0	ug/L	85.7	(71%-126%)
Toluene-d8	46.1	50.0	ug/L	92.3	(76%-129%)

Comments:

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

GC/MS Semivolatile Analysis

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

Page 1 of 1

SDG Number: 235805
Lab Sample ID: 235805001

Client: SSFL001
Date Collected: 08/20/2009 14:00
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Water

Client ID: EBQW2234
Batch ID: 897518
Run Date: 08/31/2009 14:22
Data File: s4h3115.d
Prep Batch: 897517
Prep Date: 08/27/2009 17:04

Method: SW846 8270C Low Level
Analyst: JMB3
Inj. Vol: .5 uL
Prep Method: SW846 3510C
Aliquot: 1060 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-009
Instrument: MSD4I
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	0.230	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	13.5	23.6	ug/L	57.3	(35%-100%)
Nitrobenzene-d5	14.0	23.6	ug/L	59.5	(40%-112%)
p-Terphenyl-d14	17.5	23.6	ug/L	74.4	(46%-130%)
2,4,6-Tribromophenol	21.5	47.2	ug/L	45.7	(39%-115%)
2-Fluorophenol	16.4	47.2	ug/L	34.8	(25%-92%)
Phenol-d5	10.9	47.2	ug/L	23.2	(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**

Page 1 of 1

SDG Number: 235805
Lab Sample ID: 235805002

Client: SSFL001
Date Collected: 08/20/2009 09:40
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 2.9

Client ID: HZBS0173S001
Batch ID: 897945
Run Date: 08/28/2009 16:11
Data File: s6h2814.d
Prep Batch: 897944
Prep Date: 08/28/2009 11:08

Method: SW846 8270C Low Level
Analyst: JMB3
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.18 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD6.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	3.41	17.1	20.0
83-32-9	Acenaphthene	U	17.1	ug/kg	5.70	17.1	20.0
129-00-0	Pyrene	U	17.1	ug/kg	5.36	17.1	20.0
91-20-3	Naphthalene	U	17.1	ug/kg	5.12	17.1	20.0
91-57-6	2-Methylnaphthalene	U	17.1	ug/kg	3.41	17.1	20.0
90-12-0	1-Methylnaphthalene	U	17.1	ug/kg	5.12	17.1	20.0
131-11-3	Dimethylphthalate	U	17.1	ug/kg	5.12	17.1	20.0
208-96-8	Acenaphthylene	U	17.1	ug/kg	5.12	17.1	20.0
84-66-2	Diethylphthalate	U	17.1	ug/kg	5.12	17.1	20.0
86-73-7	Fluorene	U	17.1	ug/kg	5.12	17.1	20.0
85-01-8	Phenanthrene	U	17.1	ug/kg	5.12	17.1	20.0
120-12-7	Anthracene	U	17.1	ug/kg	3.41	17.1	20.0
84-74-2	Di-n-butylphthalate	U	17.1	ug/kg	5.12	17.1	20.0
206-44-0	Fluoranthene	U	17.1	ug/kg	5.12	17.1	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	17.1	ug/kg	5.12	17.1	20.0
56-55-3	Benzo(a)anthracene	U	17.1	ug/kg	5.12	17.1	20.0
218-01-9	Chrysene	U	17.1	ug/kg	5.12	17.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	BJ	16.8	ug/kg	5.63	17.1	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	17.1	ug/kg	5.12	17.1	20.0
205-99-2	Benzo(b)fluoranthene	U	17.1	ug/kg	5.12	17.1	20.0
207-08-9	Benzo(k)fluoranthene	U	17.1	ug/kg	5.12	17.1	20.0
50-32-8	Benzo(a)pyrene	U	17.1	ug/kg	5.12	17.1	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	17.1	ug/kg	5.12	17.1	20.0
53-70-3	Dibenzo(a,h)anthracene	U	17.1	ug/kg	5.12	17.1	20.0
191-24-2	Benzo(ghi)perylene	U	17.1	ug/kg	5.12	17.1	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1300	1710	ug/kg	75.9	(37%-106%)
2-Fluorophenol	971	1710	ug/kg	56.9	(35%-96%)
Phenol-d5	958	1710	ug/kg	56.2	(36%-96%)
2-Fluorobiphenyl	561	853	ug/kg	65.7	(36%-100%)
Nitrobenzene-d5	507	853	ug/kg	59.4	(34%-104%)
p-Terphenyl-d14	701	853	ug/kg	82.2	(40%-124%)

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**

Page 1 of 1

SDG Number: 235805
Lab Sample ID: 235805003

Client: SSFL001
Date Collected: 08/20/2009 09:57
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 6.1

Client ID: HZBS0173S002
Batch ID: 897945
Run Date: 08/28/2009 18:26
Data File: s6h2820.d
Prep Batch: 897944
Prep Date: 08/28/2009 11:08

Method: SW846 8270C Low Level
Analyst: JMB3
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.04 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD6.I
Dilution: 4
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	70.9	ug/kg	14.2	70.9	20.0
83-32-9	Acenaphthene	U	70.9	ug/kg	23.7	70.9	20.0
129-00-0	Pyrene	U	70.9	ug/kg	22.3	70.9	20.0
91-20-3	Naphthalene	U	70.9	ug/kg	21.3	70.9	20.0
91-57-6	2-Methylnaphthalene	U	70.9	ug/kg	14.2	70.9	20.0
90-12-0	1-Methylnaphthalene	U	70.9	ug/kg	21.3	70.9	20.0
131-11-3	Dimethylphthalate	U	70.9	ug/kg	21.3	70.9	20.0
208-96-8	Acenaphthylene	U	70.9	ug/kg	21.3	70.9	20.0
84-66-2	Diethylphthalate	U	70.9	ug/kg	21.3	70.9	20.0
86-73-7	Fluorene	U	70.9	ug/kg	21.3	70.9	20.0
85-01-8	Phenanthrene	U	70.9	ug/kg	21.3	70.9	20.0
120-12-7	Anthracene	U	70.9	ug/kg	14.2	70.9	20.0
84-74-2	Di-n-butylphthalate	U	70.9	ug/kg	21.3	70.9	20.0
206-44-0	Fluoranthene	U	70.9	ug/kg	21.3	70.9	20.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	70.9	ug/kg	21.3	70.9	20.0
56-55-3	Benzo(a)anthracene	U	70.9	ug/kg	21.3	70.9	20.0
218-01-9	Chrysene	U	70.9	ug/kg	21.3	70.9	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	U	70.9	ug/kg	23.4	70.9	20.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	70.9	ug/kg	21.3	70.9	20.0
205-99-2	Benzo(b)fluoranthene	U	70.9	ug/kg	21.3	70.9	20.0
207-08-9	Benzo(k)fluoranthene	U	70.9	ug/kg	21.3	70.9	20.0
50-32-8	Benzo(a)pyrene	U	70.9	ug/kg	21.3	70.9	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	70.9	ug/kg	21.3	70.9	20.0
53-70-3	Dibenzo(a,h)anthracene	U	70.9	ug/kg	21.3	70.9	20.0
191-24-2	Benzo(ghi)perylene	U	70.9	ug/kg	21.3	70.9	20.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	1200	1770	ug/kg	67.9	(37%-106%)
2-Fluorophenol	872	1770	ug/kg	49.2	(35%-96%)
Phenol-d5	892	1770	ug/kg	50.3	(36%-96%)
2-Fluorobiphenyl	525	887	ug/kg	59.3	(36%-100%)
Nitrobenzene-d5	501	887	ug/kg	56.5	(34%-104%)
p-Terphenyl-d14	634	887	ug/kg	71.5	(40%-124%)

Comments:

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

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

Page 1 of 1

SDG Number: 235805
Lab Sample ID: 235805004

Client: SSFL001
Date Collected: 08/20/2009 10:35
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.6

Client ID: HZBS0174S001
Batch ID: 897945
Run Date: 08/28/2009 17:41
Data File: s6h2818.d
Prep Batch: 897944
Prep Date: 08/28/2009 11:08

Method: SW846 8270C Low Level
Analyst: JMB3
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.06 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD6.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	5.82	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	BJ	12.2	ug/kg	5.75	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	1410	1740	ug/kg	80.7	(37%-106%)
2-Fluorophenol	945	1740	ug/kg	54.2	(35%-96%)
Phenol-d5	971	1740	ug/kg	55.7	(36%-96%)
2-Fluorobiphenyl	539	872	ug/kg	61.9	(36%-100%)
Nitrobenzene-d5	514	872	ug/kg	59.0	(34%-104%)
p-Terphenyl-d14	717	872	ug/kg	82.3	(40%-124%)

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**

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SDG Number: 235805
Lab Sample ID: 235805005

Client: SSFL001
Date Collected: 08/20/2009 10:56
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.8

Client ID: HZBS0174S002
Batch ID: 897945
Run Date: 08/28/2009 18:03
Data File: s6h2819.d
Prep Batch: 897944
Prep Date: 08/28/2009 11:08

Method: SW846 8270C Low Level
Analyst: JMB3
Inj. Vol: .5 uL
Prep Method: SW846 3550B
Aliquot: 30.05 g

Prep Basis: Dry Weight
SOP Ref: GL-OA-E-009
Instrument: MSD6.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	BJ	12.2	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	1440	1750	ug/kg	82.6	(37%-106%)
2-Fluorophenol	942	1750	ug/kg	53.9	(35%-96%)
Phenol-d5	940	1750	ug/kg	53.8	(36%-96%)
2-Fluorobiphenyl	503	874	ug/kg	57.5	(36%-100%)
Nitrobenzene-d5	484	874	ug/kg	55.4	(34%-104%)
p-Terphenyl-d14	707	874	ug/kg	80.8	(40%-124%)

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.

GC
SEMIVOLATILE
PCB
ANALYSIS

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 235805
Lab Sample ID: 235805001

Client: SSFL001
Date Collected: 08/20/2009 14:00
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Water

Client ID: EBQW2234
Batch ID: 897890
Run Date: 08/31/2009 08:32
Data File: Dual Column
Prep Batch: 897889
Prep Date: 08/28/2009 18:29

Method: SW846 8082
Analyst: YS1
Inj. Vol: 1 uL
Prep Method: SW846 3510C
Aliquot: 1030 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-040
Instrument: ECD1A.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	0.0971	ug/L	0.0323	0.0971	0.100	015f1501.d
11104-28-2	Aroclor-1221	U	0.0971	ug/L	0.0323	0.0971	0.200	015f1501.d
11141-16-5	Aroclor-1232	U	0.0971	ug/L	0.0323	0.0971	0.100	015f1501.d
53469-21-9	Aroclor-1242	U	0.0971	ug/L	0.0323	0.0971	0.100	015f1501.d
12672-29-6	Aroclor-1248	U	0.0971	ug/L	0.0323	0.0971	0.100	015f1501.d
11097-69-1	Aroclor-1254	U	0.0971	ug/L	0.0323	0.0971	0.100	015f1501.d
11096-82-5	Aroclor-1260	U	0.0971	ug/L	0.0323	0.0971	0.100	015f1501.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	0.104	0.194	ug/L	53.4	(29%–103%)	015f1501.d
Decachlorobiphenyl	0.119	0.194	ug/L	61.3	(34%–118%)	015f1501.d

Comments:

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

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 235805
Lab Sample ID: 235805002

Client: SSFL001
Date Collected: 08/20/2009 09:40
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 2.9
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD1A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0173S001
Batch ID: 897461
Run Date: 08/28/2009 14:10
Data File: Dual Column
Prep Batch: 897460
Prep Date: 08/27/2009 10:19

Method: SW846 8082
Analyst: YS1
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.16 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.42	ug/kg	1.14	3.42	15.0	022f2201.d
11104-28-2	Aroclor-1221	U	3.42	ug/kg	1.14	3.42	15.0	022f2201.d
11141-16-5	Aroclor-1232	U	3.42	ug/kg	1.14	3.42	15.0	022f2201.d
53469-21-9	Aroclor-1242	U	3.42	ug/kg	1.14	3.42	15.0	022f2201.d
12672-29-6	Aroclor-1248	U	3.42	ug/kg	1.14	3.42	15.0	022f2201.d
11097-69-1	Aroclor-1254		4.90	ug/kg	1.14	3.42	15.0	022b2201.d
11096-82-5	Aroclor-1260		4.30	ug/kg	1.14	3.42	15.0	022f2201.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.55	6.83	ug/kg	66.5	(34%-105%)	022f2201.d
Decachlorobiphenyl	3.73	6.83	ug/kg	54.6	(33%-115%)	022f2201.d

Comments:

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

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 235805
Lab Sample ID: 235805003

Client: SSFL001
Date Collected: 08/20/2009 09:57
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 6.1
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD1A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0173S002
Batch ID: 897461
Run Date: 08/28/2009 14:57
Data File: Dual Column
Prep Batch: 897460
Prep Date: 08/27/2009 10:19

Method: SW846 8082
Analyst: YS1
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.11 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	3.54	ug/kg	1.18	3.54	15.0	025f2501.d
11104-28-2	Aroclor-1221	U	3.54	ug/kg	1.18	3.54	15.0	025f2501.d
11141-16-5	Aroclor-1232	U	3.54	ug/kg	1.18	3.54	15.0	025f2501.d
53469-21-9	Aroclor-1242	U	3.54	ug/kg	1.18	3.54	15.0	025f2501.d
12672-29-6	Aroclor-1248	U	3.54	ug/kg	1.18	3.54	15.0	025f2501.d
11097-69-1	Aroclor-1254	U	3.54	ug/kg	1.18	3.54	15.0	025f2501.d
11096-82-5	Aroclor-1260	U	3.54	ug/kg	1.18	3.54	15.0	025f2501.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	3.71	7.08	ug/kg	52.4	(34%-105%)	025f2501.d
Decachlorobiphenyl	3.26	7.08	ug/kg	46.1	(33%-115%)	025f2501.d

Comments:

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

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 235805
Lab Sample ID: 235805004

Client: SSFL001
Date Collected: 08/20/2009 10:35
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.6
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD1A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0174S001
Batch ID: 897461
Run Date: 08/28/2009 15:12
Data File: Dual Column
Prep Batch: 897460
Prep Date: 08/27/2009 10:19

Method: SW846 8082
Analyst: YS1
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	3.49	ug/kg	1.16	3.49	15.0	026f2601.d
11104-28-2	Aroclor-1221	U	3.49	ug/kg	1.16	3.49	15.0	026f2601.d
11141-16-5	Aroclor-1232	U	3.49	ug/kg	1.16	3.49	15.0	026f2601.d
53469-21-9	Aroclor-1242	U	3.49	ug/kg	1.16	3.49	15.0	026f2601.d
12672-29-6	Aroclor-1248	U	3.49	ug/kg	1.16	3.49	15.0	026f2601.d
11097-69-1	Aroclor-1254	J	1.70	ug/kg	1.16	3.49	15.0	026f2601.d
11096-82-5	Aroclor-1260	J	1.70	ug/kg	1.16	3.49	15.0	026f2601.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	4.26	6.97	ug/kg	61.2	(34%-105%)	026f2601.d
Decachlorobiphenyl	4.43	6.97	ug/kg	63.5	(33%-115%)	026f2601.d

Comments:

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

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 235805
Lab Sample ID: 235805005

Client: SSFL001
Date Collected: 08/20/2009 10:56
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.8
Prep Basis: Dry Weight
SOP Ref: GL-OA-E-040
Instrument: ECD1A.I
Dilution: 10
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

Client ID: HZBS0174S002
Batch ID: 897461
Run Date: 08/28/2009 16:09
Data File: Dual Column
Prep Batch: 897460
Prep Date: 08/27/2009 10:19

Method: SW846 8082
Analyst: YS1
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 30.11 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	34.9	ug/kg	11.6	34.9	15.0	030f3001.d
11104-28-2	Aroclor-1221	U	34.9	ug/kg	11.6	34.9	15.0	030f3001.d
11141-16-5	Aroclor-1232	U	34.9	ug/kg	11.6	34.9	15.0	030f3001.d
53469-21-9	Aroclor-1242	U	34.9	ug/kg	11.6	34.9	15.0	030f3001.d
12672-29-6	Aroclor-1248	P	274	ug/kg	11.6	34.9	15.0	030f3001.d
11097-69-1	Aroclor-1254		222	ug/kg	11.6	34.9	15.0	030b3001.d
11096-82-5	Aroclor-1260	P	91.5	ug/kg	11.6	34.9	15.0	030f3001.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
Decachlorobiphenyl	6.28	6.98	ug/kg	90.1	(33%-115%)	030b3001.d
4cmx	5.79	6.98	ug/kg	83.0	(34%-105%)	030f3001.d

Comments:

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.

HPLC Explosive Analysis

**Explosives by HPLC
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 235805
Lab Sample ID: 235805001

Client: SSFL001
Date Collected: 08/20/2009 14:00
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Water

Client ID: EBQW2234RA
Batch ID: 896720
Run Date: 08/29/2009 17:21
Data File: ex3h2917.d
Prep Batch: 896719
Prep Date: 08/26/2009 10:47

Method: SW846 3535/8330
Analyst: CWW
Inj. Vol: 100 uL
Prep Method: SW846 Method 3535
Aliquot: 770 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-033
Instrument: HPLCC.I
Dilution: 2
Prep SOP Ref: GL-OA-E-033
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
2691-41-0	HMX	U	0.487	ug/L	0.162	0.487	0.500
121-82-4	RDX	U	0.487	ug/L	0.162	0.487	0.500
479-45-8	Tetryl	U	1.46	ug/L	0.487	1.46	1.5
118-96-7	2,4,6-Trinitrotoluene	U	0.487	ug/L	0.162	0.487	0.500
19406-51-0	4-Amino-2,6-dinitrotoluene	U	0.487	ug/L	0.162	0.487	0.500
88-72-2	o-Nitrotoluene	U	0.487	ug/L	0.162	0.487	0.500
99-99-0	p-Nitrotoluene	U	0.487	ug/L	0.162	0.487	0.500
99-08-1	m-Nitrotoluene	U	0.325	ug/L	0.126	0.325	0.500
78-11-5	PETN	U	1.95	ug/L	0.649	1.95	2.00
121-14-2	2,4-Dinitrotoluene	U	0.487	ug/L	0.162	0.487	0.500
98-95-3	Nitrobenzene	U	0.325	ug/L	0.0649	0.325	0.500
606-20-2	2,6-Dinitrotoluene	U	0.487	ug/L	0.162	0.487	0.500
99-65-0	m-Dinitrobenzene	U	0.325	ug/L	0.0649	0.325	0.500
99-35-4	1,3,5-Trinitrobenzene	U	0.325	ug/L	0.0649	0.325	0.500

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	3.12	3.25	ug/L	96.0	(70%-130%)

Comments:

- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- h Preparation or preservation holding time was exceeded

**Explosives by HPLC
Certificate of Analysis
Sample Summary**

SDG Number: 235805
Lab Sample ID: 235805001

Client: SSFL001
Date Collected: 08/20/2009 14:00
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Water

Client ID: EBQW2234
Batch ID: 896720
Run Date: 08/27/2009 13:43
Data File: ex6h2708.d
Prep Batch: 896719
Prep Date: 08/26/2009 10:47

Method: SW846 3535/8330
Analyst: CWW
Inj. Vol: 100 uL
Prep Method: SW846 Method 3535
Aliquot: 770 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-033
Instrument: HPLCF.I
Dilution: 2
Prep SOP Ref: GL-OA-E-033
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
55-63-0	Nitroglycerin	U	1.95	ug/L	0.649	1.95	2.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	3.00	3.25	ug/L	92.4	(70%-130%)

Comments:

- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- h Preparation or preservation holding time was exceeded

**Explosives by HPLC
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 235805
Lab Sample ID: 235805002

Client: SSFL001
Date Collected: 08/20/2009 09:40
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 2.9

Client ID: HZBS0173S001RA
Batch ID: 896722
Run Date: 08/29/2009 21:11
Data File: ex3h2923.d
Prep Batch: 896721
Prep Date: 08/27/2009 14:10

Method: SW846 8330
Analyst: CWW
Inj. Vol: 100 µL
Prep Method: SW846 8330 PREP
Aliquot: 2 g

Prep Basis: As Received
SOP Ref: GL-OA-E-033
Instrument: HPLCC.I
Dilution: 2
Prep SOP Ref: GL-OA-E-033
Final Volume: 10 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
2691-41-0	HMX	U	150	ug/Kg	50.0	150	250
121-82-4	RDX	U	150	ug/Kg	50.0	150	250
479-45-8	Tetryl	U	150	ug/Kg	50.0	150	500
118-96-7	2,4,6-Trinitrotoluene	U	150	ug/Kg	50.0	150	250
19406-51-0	4-Amino-2,6-dinitrotoluene	U	150	ug/Kg	50.0	150	250
35572-78-2	2-Amino-4,6-dinitrotoluene	U	150	ug/Kg	50.0	150	250
88-72-2	o-Nitrotoluene	U	150	ug/Kg	50.0	150	250
99-99-0	p-Nitrotoluene	U	150	ug/Kg	50.0	150	400
99-08-1	m-Nitrotoluene	U	150	ug/Kg	50.0	150	250
78-11-5	PETN	U	500	ug/Kg	82.5	500	4000
121-14-2	2,4-Dinitrotoluene	U	150	ug/Kg	50.0	150	250
98-95-3	Nitrobenzene	U	150	ug/Kg	50.0	150	250
606-20-2	2,6-Dinitrotoluene	U	150	ug/Kg	50.0	150	250
99-65-0	m-Dinitrobenzene	U	150	ug/Kg	50.0	150	250
99-35-4	1,3,5-Trinitrobenzene	U	150	ug/Kg	50.0	150	250

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	2620	2500	ug/Kg	105	(79%-128%)

Comments:

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

**Explosives by HPLC
Certificate of Analysis
Sample Summary**

SDG Number: 235805
Lab Sample ID: 235805002

Client: SSFL001
Date Collected: 08/20/2009 09:40
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 2.9

Client ID: HZBS0173S001
Batch ID: 896722
Run Date: 08/28/2009 14:36
Data File: ex6h2806.d
Prep Batch: 896721
Prep Date: 08/27/2009 14:10

Method: SW846 8330
Analyst: CWW
Inj. Vol: 100 uL
Prep Method: SW846 8330 PREP
Aliquot: 2 g

Prep Basis: As Received
SOP Ref: GL-OA-E-033
Instrument: HPLCF.I
Dilution: 2
Prep SOP Ref: GL-OA-E-033
Final Volume: 10 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
55-63-0	Nitroglycerin	U	1000	ug/Kg	250	1000	5000

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	2710	2500	ug/Kg	108	(79%-128%)

Comments:

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

**Explosives by HPLC
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 235805
Lab Sample ID: 235805003

Client: SSFL001
Date Collected: 08/20/2009 09:57
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 6.1

Client ID: HZBS0173S002RA
Batch ID: 896722
Run Date: 08/29/2009 23:07
Data File: ex3h2926.d
Prep Batch: 896721
Prep Date: 08/27/2009 14:10

Method: SW846 8330
Analyst: CWW
Inj. Vol: 100 uL
Prep Method: SW846 8330 PREP
Aliquot: 2 g

Prep Basis: As Received
SOP Ref: GL-OA-E-033
Instrument: HPLCC.I
Dilution: 2
Prep SOP Ref: GL-OA-E-033
Final Volume: 10 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
2691-41-0	HMX	U	150	ug/Kg	50.0	150	250
121-82-4	RDX	U	150	ug/Kg	50.0	150	250
479-45-8	Tetryl	U	150	ug/Kg	50.0	150	500
118-96-7	2,4,6-Trinitrotoluene	U	150	ug/Kg	50.0	150	250
19406-51-0	4-Amino-2,6-dinitrotoluene	U	150	ug/Kg	50.0	150	250
35572-78-2	2-Amino-4,6-dinitrotoluene	U	150	ug/Kg	50.0	150	250
88-72-2	o-Nitrotoluene	U	150	ug/Kg	50.0	150	250
99-99-0	p-Nitrotoluene	U	150	ug/Kg	50.0	150	400
99-08-1	m-Nitrotoluene	U	150	ug/Kg	50.0	150	250
78-11-5	PETN	U	500	ug/Kg	82.5	500	4000
121-14-2	2,4-Dinitrotoluene	U	150	ug/Kg	50.0	150	250
98-95-3	Nitrobenzene	U	150	ug/Kg	50.0	150	250
606-20-2	2,6-Dinitrotoluene	U	150	ug/Kg	50.0	150	250
99-65-0	m-Dinitrobenzene	U	150	ug/Kg	50.0	150	250
99-35-4	1,3,5-Trinitrobenzene	U	150	ug/Kg	50.0	150	250

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	2840	2500	ug/Kg	114	(79%-128%)

Comments:

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

**Explosives by HPLC
Certificate of Analysis
Sample Summary**

SDG Number: 235805
Lab Sample ID: 235805003

Client: SSFL001
Date Collected: 08/20/2009 09:57
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 6.1

Client ID: HZBS0173S002
Batch ID: 896722
Run Date: 08/28/2009 16:32
Data File: ex6h2809.d
Prep Batch: 896721
Prep Date: 08/27/2009 14:10

Method: SW846 8330
Analyst: CWW
Inj. Vol: 100 uL
Prep Method: SW846 8330 PREP
Aliquot: 2 g

Prep Basis: As Received
SOP Ref: GL-OA-E-033
Instrument: HPLCF.I
Dilution: 2
Prep SOP Ref: GL-OA-E-033
Final Volume: 10 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
55-63-0	Nitroglycerin	U	1000	ug/Kg	250	1000	5000

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	2760	2500	ug/Kg	111	(79%-128%)

Comments:

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

**Explosives by HPLC
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 235805
Lab Sample ID: 235805004

Client: SSFL001
Date Collected: 08/20/2009 10:35
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.6

Client ID: HZBS0174S001RA
Batch ID: 896722
Run Date: 08/29/2009 23:45
Data File: ex3h2927.d
Prep Batch: 896721
Prep Date: 08/27/2009 14:10

Method: SW846 8330
Analyst: CWW
Inj. Vol: 100 uL
Prep Method: SW846 8330 PREP
Aliquot: 2 g

Prep Basis: As Received
SOP Ref: GL-OA-E-033
Instrument: HPLCC.I
Dilution: 2
Prep SOP Ref: GL-OA-E-033
Final Volume: 10 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
2691-41-0	HMX	U	150	ug/Kg	50.0	150	250
121-82-4	RDX	U	150	ug/Kg	50.0	150	250
479-45-8	Tetryl	U	150	ug/Kg	50.0	150	500
118-96-7	2,4,6-Trinitrotoluene	U	150	ug/Kg	50.0	150	250
19406-51-0	4-Amino-2,6-dinitrotoluene	U	150	ug/Kg	50.0	150	250
35572-78-2	2-Amino-4,6-dinitrotoluene	U	150	ug/Kg	50.0	150	250
88-72-2	o-Nitrotoluene	U	150	ug/Kg	50.0	150	250
99-99-0	p-Nitrotoluene	U	150	ug/Kg	50.0	150	400
99-08-1	m-Nitrotoluene	U	150	ug/Kg	50.0	150	250
78-11-5	PETN	U	500	ug/Kg	82.5	500	4000
121-14-2	2,4-Dinitrotoluene	U	150	ug/Kg	50.0	150	250
98-95-3	Nitrobenzene	U	150	ug/Kg	50.0	150	250
606-20-2	2,6-Dinitrotoluene	U	150	ug/Kg	50.0	150	250
99-65-0	m-Dinitrobenzene	U	150	ug/Kg	50.0	150	250
99-35-4	1,3,5-Trinitrobenzene	U	150	ug/Kg	50.0	150	250

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	2590	2500	ug/Kg	104	(79%-128%)

Comments:

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

**Explosives by HPLC
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 235805
Lab Sample ID: 235805004

Client: SSFL001
Date Collected: 08/20/2009 10:35
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.6

Client ID: HZBS0174S001
Batch ID: 896722
Run Date: 08/28/2009 17:10
Data File: ex6h2810.d
Prep Batch: 896721
Prep Date: 08/27/2009 14:10

Method: SW846 8330
Analyst: CWW
Inj. Vol: 100 uL
Prep Method: SW846 8330 PREP
Aliquot: 2 g

Prep Basis: As Received
SOP Ref: GL-OA-E-033
Instrument: HPLCF.I
Dilution: 2
Prep SOP Ref: GL-OA-E-033
Final Volume: 10 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
55-63-0	Nitroglycerin	U	1000	ug/Kg	250	1000	5000

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	2760	2500	ug/Kg	111	(79%-128%)

Comments:

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

**Explosives by HPLC
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 235805
Lab Sample ID: 235805005

Client: SSFL001
Date Collected: 08/20/2009 10:56
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.8

Client ID: HZBS0174S002RA
Batch ID: 896722
Run Date: 08/30/2009 00:24
Data File: ex3h2928.d
Prep Batch: 896721
Prep Date: 08/27/2009 14:10

Method: SW846 8330
Analyst: CWW
Inj. Vol: 100 µL
Prep Method: SW846 8330 PREP
Aliquot: 2 g

Prep Basis: As Received
SOP Ref: GL-OA-E-033
Instrument: HPLCC.I
Dilution: 2
Prep SOP Ref: GL-OA-E-033
Final Volume: 10 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
2691-41-0	HMX	U	150	ug/Kg	50.0	150	250
121-82-4	RDX	U	150	ug/Kg	50.0	150	250
479-45-8	Tetryl	U	150	ug/Kg	50.0	150	500
118-96-7	2,4,6-Trinitrotoluene	U	150	ug/Kg	50.0	150	250
19406-51-0	4-Amino-2,6-dinitrotoluene	U	150	ug/Kg	50.0	150	250
35572-78-2	2-Amino-4,6-dinitrotoluene	U	150	ug/Kg	50.0	150	250
88-72-2	o-Nitrotoluene	U	150	ug/Kg	50.0	150	250
99-99-0	p-Nitrotoluene	U	150	ug/Kg	50.0	150	400
99-08-1	m-Nitrotoluene	U	150	ug/Kg	50.0	150	250
78-11-5	PETN	U	500	ug/Kg	82.5	500	4000
121-14-2	2,4-Dinitrotoluene	U	150	ug/Kg	50.0	150	250
98-95-3	Nitrobenzene	U	150	ug/Kg	50.0	150	250
606-20-2	2,6-Dinitrotoluene	U	150	ug/Kg	50.0	150	250
99-65-0	m-Dinitrobenzene	U	150	ug/Kg	50.0	150	250
99-35-4	1,3,5-Trinitrobenzene	U	150	ug/Kg	50.0	150	250

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	2610	2500	ug/Kg	104	(79%-128%)

Comments:

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

**Explosives by HPLC
Certificate of Analysis
Sample Summary**

SDG Number: 235805
Lab Sample ID: 235805005

Client: SSFL001
Date Collected: 08/20/2009 10:56
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.8

Client ID: HZBS0174S002
Batch ID: 896722
Run Date: 08/28/2009 17:49
Data File: ex6h2811.d
Prep Batch: 896721
Prep Date: 08/27/2009 14:10

Method: SW846 8330
Analyst: CWW
Inj. Vol: 100 uL
Prep Method: SW846 8330 PREP
Aliquot: 2 g

Prep Basis: As Received
SOP Ref: GL-OA-E-033
Instrument: HPLCF.I
Dilution: 2
Prep SOP Ref: GL-OA-E-033
Final Volume: 10 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
55-63-0	Nitroglycerin	U	1000	ug/Kg	250	1000	5000

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	2780	2500	ug/Kg	111	(79%-128%)

Comments:

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

LC/MS/MS
EXPLOSIVES
ANALYSIS

Lab Name: GEL Laboratories LLC

Client Sample ID: EBQW2234

Lab Code: GEL

GEL Job No (SDG) 235805

Matrix: WATER

GEL Sample ID: 235805001

Sample Amount 770

Moisture:

Amount Units mL

Date Received: 21-AUG-09

Extraction Type Sol Exchange

Extraction Batch ID: 896726

Concentrated Extract Volume (mL) 5

Date Extracted: 26-AUG-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS0828017.wiff

Date Analyzed: 28-AUG-09 19:30

Units: ug/L

Cas No.	Compound	Concentration*	Q
59229-75-3	2,6-Diamino-4-nitrotoluene	1.3	U
6629-29-4	2,4-Diamino-6-nitrotoluene	1.3	U

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		Sample Amoun		

Lab Name: GEL Laboratories LLC

Client Sample ID: HZBS0173S001

Lab Code: GEL

GEL Job No (SDG) 235805

Matrix: SOIL

GEL Sample ID: 235805002

Sample Amount 2

Moisture: 2.9

Amount Units g

Date Received: 21-AUG-09

Extraction Type Sonication

Extraction Batch ID: 896730

Concentrated Extract Volume (mL) 10

Date Extracted: 27-AUG-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS0828029.wiff

Date Analyzed: 28-AUG-09 22:38

Units: ug/Kg

Cas No.	Compound	Concentration*	Q
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U

*Concentration =

Instrument Value	X	<u>Concentrated Extract Volume</u>	X	Dilution Factor
		Sample Amoun		

Lab Name: GEL Laboratories LLC

Client Sample ID: HZBS0173S002

Lab Code: GEL

GEL Job No (SDG) 235805

Matrix: SOIL

GEL Sample ID: 235805003

Sample Amount 2

Moisture: 6.1

Amount Units g

Date Received: 21-AUG-09

Extraction Type Sonication

Extraction Batch ID: 896730

Concentrated Extract Volume (mL) 10

Date Extracted: 27-AUG-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS0828032.wiff

Date Analyzed: 28-AUG-09 23:25

Units: ug/Kg

Cas No.	Compound	Concentration*	Q
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U

*Concentration =

Instrument Value	X	Concentrated Extract Volume	X	Dilution Factor
		Sample Amoun		

Lab Name: GEL Laboratories LLC

Client Sample ID: HZBS0174S001

Lab Code: GEL

GEL Job No (SDG) 235805

Matrix: SOIL

GEL Sample ID: 235805004

Sample Amount 2

Moisture: 4.6

Amount Units g

Date Received: 21-AUG-09

Extraction Type Sonication

Extraction Batch ID: 896730

Concentrated Extract Volume (mL) 10

Date Extracted: 27-AUG-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS0828033.wiff

Date Analyzed: 28-AUG-09 23:41

Units: ug/Kg

Cas No.	Compound	Concentration*	Q
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U

*Concentration =

Instrument Value	X	$\frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}}$	X	Dilution Factor
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Lab Name: GEL Laboratories LLC

Client Sample ID: HZBS0174S002

Lab Code: GEL

GEL Job No (SDG) 235805

Matrix: SOIL

GEL Sample ID: 235805005

Sample Amount 2

Moisture: 4.8

Amount Units g

Date Received: 21-AUG-09

Extraction Type Sonication

Extraction Batch ID: 896730

Concentrated Extract Volume (mL) 10

Date Extracted: 27-AUG-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS0828034.wiff

Date Analyzed: 28-AUG-09 23:57

Units: ug/Kg

Cas No.	Compound	Concentration*	Q
59229-75-3	2,6-Diamino-4-nitrotoluene	2000	U
6629-29-4	2,4-Diamino-6-nitrotoluene	2000	U

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Sample Amoun}}$ X Dilution Factor

**GC
SEMIVOLATILE
DRO
ANALYSIS**

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

SDG Number: 235805	Client: SSFL001	Project: SSFL00149
Lab Sample ID: 235805001	Date Collected: 08/20/2009 14:00	Matrix: Water
	Date Received: 08/21/2009 08:40	
Client ID: EBQW2234		Prep Basis: As Received
Batch ID: 897529	Method: SW846 8015B EFH	SOP Ref: GL-OA-E-003
Run Date: 08/28/2009 00:37	Analyst: TXK2	Instrument: FID7.I
Data File: 014f1401.d	Inj. Vol: 1 uL	Dilution: 1
Prep Batch: 897528	Prep Method: SW846 3510C	Prep SOP Ref: GL-OA-E-013
Prep Date: 08/27/2009 17:22	Aliquot: 1030 mL	Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
EPH (>C11 - C1)	EPH (>C11 - C14)	U	97.1	ug/L	32.0	97.1	100
EPH (>C14 - C2)	EPH (>C14 - C20)	U	97.1	ug/L	32.0	97.1	100
EPH (>C20 - C3)	EPH (>C20 - C30)	U	97.1	ug/L	32.0	97.1	100
EPH (C8 - C11)	EPH (C8 - C11)	U	97.1	ug/L	32.0	97.1	100

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	29.8	48.5	ug/L	61.4	(35%-103%)

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: 235805	Client: SSFL001	Project: SSFL00149
Lab Sample ID: 235805002	Date Collected: 08/20/2009 09:40	Matrix: Soil
	Date Received: 08/21/2009 08:40	%Moisture: 2.9
Client ID: HZBS0173S001		Prep Basis: Dry Weight
Batch ID: 896724	Method: SW846 8015B EFH	SOP Ref: GL-OA-E-003
Run Date: 08/26/2009 19:52	Analyst: TXX2	Instrument: FID7.1
Data File: 014f1401.d	Inj. Vol: 1 uL	Dilution: 1
Prep Batch: 896723	Prep Method: SW846 3550B	Prep SOP Ref: GL-OA-E-010
Prep Date: 08/25/2009 10:43	Aliquot: 30.05 g	Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
BFH (>C11 - C14)	BFH (>C11 - C14)	U	3.43	mg/kg	1.13	3.43	5.00
BFH (>C14 - C20)	BFH (>C14 - C20)	J	1.87	mg/kg	1.13	3.43	5.00
BFH (>C20 - C30)	BFH (>C20 - C30)		21.8	mg/kg	1.13	3.43	5.00
BFH (C8 - C11)	BFH (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	66.6	(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: 235805
 Lab Sample ID: 235805003

Client: SSFL001
 Date Collected: 08/20/2009 09:57
 Date Received: 08/21/2009 08:40

Project: SSFL00149
 Matrix: Soil
 %Moisture: 6.1
 Prep Basis: Dry Weight
 SOP Ref: GL-OA-E-003
 Instrument: FID7.I
 Dilution: 5
 Prep SOP Ref: GL-OA-E-010
 Final Volume: 1 mL

Client ID: HZBS0173S002
 Batch ID: 896724
 Run Date: 08/26/2009 20:29
 Data File: 015F1501.d
 Prep Batch: 896723
 Prep Date: 08/25/2009 10:43

Method: SW846 8015B EFH
 Analyst: TXK2
 Inj. Vol: 1 uL
 Prep Method: SW846 3550B
 Aliquot: 30.01 g

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
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BFH (>C11 - C1)	BFH (>C11 - C14)	U	17.7	mg/kg	5.86	17.7	5.00
BFH (>C14 - C2)	BFH (>C14 - C20)	U	17.7	mg/kg	5.86	17.7	5.00
BFH (>C20 - C3)	BFH (>C20 - C30)		128	mg/kg	5.86	17.7	5.00
BFH (C8 - C11)	BFH (C8 - C11)	U	17.7	mg/kg	5.86	17.7	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
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5-alpha-Androstane	1.28	1.77	mg/kg	72.0	(34%-108%)
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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: 235805
Lab Sample ID: 235805004

Client: SSFL001
Date Collected: 08/20/2009 10:35
Date Received: 08/21/2009 08:40

Project: SSFL00149
Matrix: Soil
%Moisture: 4.6

Client ID: HZBS0174S001
Batch ID: 896724
Run Date: 08/26/2009 21:06
Data File: 016f1601.d
Prep Batch: 896723
Prep Date: 08/25/2009 10:43

Method: SW846 8015B EFH
Analyst: TXK2
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 - C14)	EFH (>C11 - C14)	U	3.49	mg/kg	1.15	3.49	5.00
EFH (>C14 - C20)	EFH (>C14 - C20)	J	1.29	mg/kg	1.15	3.49	5.00
EFH (>C20 - C30)	EFH (>C20 - C30)		8.08	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	1.15	1.75	mg/kg	65.6	(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: 235805	Client: SSFL001	Project: SSFL00149
Lab Sample ID: 235805005	Date Collected: 08/20/2009 10:56	Matrix: Soil
	Date Received: 08/21/2009 08:40	%Moisture: 4.8
Client ID: HZBS0174S002		Prep Basis: Dry Weight
Batch ID: 896724	Method: SW846 8015B EFH	SOP Ref: GL-OA-E-003
Run Date: 08/26/2009 22:57	Analyst: TXK2	Instrument: FID7.I
Data File: 019f1901.d	Inj. Vol: 1 uL	Dilution: 1
Prep Batch: 896723	Prep Method: SW846 3550B	Prep SOP Ref: GL-OA-E-010
Prep Date: 08/25/2009 10:43	Aliquot: 30.01 g	Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
BFH (>C11 - C11)	BFH (>C11 - C14)	U	3.50	mg/kg	1.16	3.50	5.00
BFH (>C14 - C14)	BFH (>C14 - C20)	U	3.50	mg/kg	1.16	3.50	5.00
BFH (>C20 - C20)	BFH (>C20 - C30)	J	1.44	mg/kg	1.16	3.50	5.00
BFH (C8 - C11)	BFH (C8 - C11)	U	3.50	mg/kg	1.16	3.50	5.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	1.01	1.75	mg/kg	57.8	(34%-108%)

Comments:

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

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 235805

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 235805001

BASIS: As Received

DATE COLLECTED 20-AUG-09

CLIENT ID: EBQW2234

LEVEL: Low

DATE RECEIVED 21-AUG-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	08/26/09 09:12	082609-1	896756
7440-36-0	Antimony	3	ug/L	U	3	10	10	1	P	HSC	08/26/09 09:12	082609-1	896756
7440-38-2	Arsenic	1.6	ug/L	U	1.6	5	5	1	MS	SKJ	08/25/09 20:37	090825-3	896788
7440-39-3	Barium	0.60	ug/L	U	0.6	2	2	1	MS	SKJ	08/25/09 20:37	090825-3	896788
7440-41-7	Beryllium	0.10	ug/L	U	0.1	0.5	0.5	1	MS	SKJ	08/26/09 15:40	090826-4	896788
7440-42-8	Boron	15	ug/L	U	15	50	50	1	P	HSC	08/26/09 09:12	082609-1	896756
7440-43-9	Cadmium	0.110	ug/L	U	0.11	1	1	1	MS	SKJ	08/25/09 20:37	090825-3	896788
7440-47-3	Chromium	2	ug/L	U	2	10	3	1	MS	SKJ	08/25/09 20:37	090825-3	896788
7440-48-4	Cobalt	0.10	ug/L	U	0.1	1	1	1	MS	SKJ	08/25/09 20:37	090825-3	896788
7440-50-8	Copper	0.330	ug/L	U	0.33	1	1	1	MS	SKJ	08/25/09 20:37	090825-3	896788
7439-92-1	Lead	0.50	ug/L	U	0.5	2	2	1	MS	SKJ	08/26/09 15:40	090826-4	896788
7439-97-6	Mercury	0.066	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	08/28/09 10:36	082809W1-9	896847
7439-98-7	Molybdenum	0.167	ug/L	U	0.167	0.5	0.5	1	MS	SKJ	08/25/09 20:37	090825-3	896788
7440-02-0	Nickel	0.50	ug/L	U	0.5	2	2	1	MS	SKJ	08/25/09 20:37	090825-3	896788
7782-49-2	Selenium	1	ug/L	U	1	5	5	1	MS	SKJ	08/25/09 20:37	090825-3	896788
7440-22-4	Silver	0.20	ug/L	U	0.2	1	1	1	MS	SKJ	08/25/09 20:37	090825-3	896788
7440-28-0	Thallium	0.531	ug/L	J	0.3	1	1	1	MS	SKJ	08/25/09 20:37	090825-3	896788
7440-62-2	Vanadium	3	ug/L	U	3	10	10	1	MS	SKJ	08/25/09 20:37	090825-3	896788
7440-66-6	Zinc	3	ug/L	U	3	10	10	1	MS	SKJ	08/25/09 20:37	090825-3	896788

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
896756	896755	SW846 3005A	50	mL	50	mL	08/25/09	AXG2
896788	896787	SW846 3005A	50	mL	50	mL	08/25/09	AXG2
896847	896846	SW846 7470A Prep	20	mL	20	mL	08/27/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 235805

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 235805002

BASIS: Dry Weight

DATE COLLECTED 20-AUG-09

CLIENT ID: HZBS0173S001

LEVEL: Low

DATE RECEIVED 21-AUG-09

MATRIX: SOIL

%SOLIDS: 97.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8910	mg/kg		6.93	20.4	10	1	P	HSC	08/26/09 11:49	082609A-2	896767
7440-36-0	Antimony	0.501	mg/kg	J	0.337	1.02	1	1	P	HSC	08/26/09 11:49	082609A-2	896767
7440-38-2	Arsenic	4.43	mg/kg		0.206	1.03	0.5	2	MS	BAJ	08/27/09 00:43	090826-5	896803
7440-39-3	Barium	70.7	mg/kg		0.514	2.06	0.5	10	MS	BAJ	08/27/09 19:31	090827-6	896803
7440-41-7	Beryllium	0.593	mg/kg		0.0206	0.103	0.3	2	MS	BAJ	08/27/09 19:00	090827-6	896803
7440-42-8	Boron	1.02	mg/kg	U	1.02	5.1	5	1	P	HSC	08/26/09 11:49	082609A-2	896767
7440-43-9	Cadmium	0.315	mg/kg		0.0206	0.206	0.2	2	MS	BAJ	08/27/09 00:43	090826-5	896803
7440-47-3	Chromium	16	mg/kg		1.03	3.08	1	10	MS	BAJ	08/27/09 01:56	090826-5	896803
7440-48-4	Cobalt	4.82	mg/kg		0.308	1.03	0.5	10	MS	BAJ	08/27/09 01:56	090826-5	896803
7440-50-8	Copper	8.09	mg/kg	E	0.0655	0.198	0.2	2	MS	BAJ	08/31/09 15:36	090831-7	898216
7439-92-1	Lead	10.9	mg/kg		0.103	0.411	0.4	2	MS	BAJ	08/27/09 19:00	090827-6	896803
7439-97-6	Mercury	0.0172	mg/kg		0.0041	0.0121	0.01	1	AV	JXL1	08/26/09 11:03	082609S2-8	896851
7439-98-7	Molybdenum	0.453	mg/kg		0.0617	0.206	0.1	2	MS	BAJ	08/27/09 00:43	090826-5	896803
7440-02-0	Nickel	9.62	mg/kg		0.514	2.06	0.4	10	MS	BAJ	08/27/09 01:56	090826-5	896803
7782-49-2	Selenium	0.514	mg/kg	U	0.514	1.03	1	2	MS	BAJ	08/27/09 00:43	090826-5	896803
7440-22-4	Silver	0.0966	mg/kg	J	0.0411	0.206	0.2	2	MS	BAJ	08/27/09 00:43	090826-5	896803
7440-28-0	Thallium	0.250	mg/kg		0.0617	0.206	0.2	2	MS	BAJ	08/27/09 19:00	090827-6	896803
7440-62-2	Vanadium	26.1	mg/kg		2.06	10.3	1	10	MS	BAJ	08/27/09 01:56	090826-5	896803
7440-66-6	Zinc	54.3	mg/kg		2.06	10.3	5	10	MS	BAJ	08/27/09 01:56	090826-5	896803

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
896767	896766	SW846 3050B	0.505	g	50	mL	08/25/09	AXG2
896803	896802	SW846 3050B	0.501	g	50	mL	08/25/09	AXG2
896851	896848	SW846 7471A Prep	0.512	g	30	mL	08/25/09	TXB3
898216	898215	SW846 3050B	0.519	g	50	mL	08/28/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 235805

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 235805003

BASIS: Dry Weight

DATE COLLECTED 20-AUG-09

CLIENT ID: HZBS0173S002

LEVEL: Low

DATE RECEIVED 21-AUG-09

MATRIX: SOIL

%SOLIDS: 93.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6180	mg/kg		7.24	21.3	10	1	P	HSC	08/26/09 12:20	082609A-2	896767
7440-36-0	Antimony	0.352	mg/kg	U	0.352	1.07	1	1	P	HSC	08/26/09 12:20	082609A-2	896767
7440-38-2	Arsenic	2.89	mg/kg		0.206	1.03	0.5	2	MS	BAJ	08/27/09 01:26	090826-5	896803
7440-39-3	Barium	63.8	mg/kg		0.516	2.06	0.5	10	MS	BAJ	08/27/09 19:49	090827-6	896803
7440-41-7	Beryllium	0.506	mg/kg		0.0206	0.103	0.3	2	MS	BAJ	08/27/09 19:18	090827-6	896803
7440-42-8	Boron	1.07	mg/kg	U	1.07	5.33	5	1	P	HSC	08/26/09 12:20	082609A-2	896767
7440-43-9	Cadmium	0.220	mg/kg		0.0206	0.206	0.2	2	MS	BAJ	08/27/09 01:26	090826-5	896803
7440-47-3	Chromium	13.9	mg/kg		1.03	3.1	1	10	MS	BAJ	08/27/09 02:27	090826-5	896803
7440-48-4	Cobalt	3.8	mg/kg		0.31	1.03	0.5	10	MS	BAJ	08/27/09 02:27	090826-5	896803
7440-50-8	Copper	7.75	mg/kg	E	0.0693	0.21	0.2	2	MS	BAJ	08/31/09 15:56	090831-7	898216
7439-92-1	Lead	8.32	mg/kg		0.103	0.413	0.4	2	MS	BAJ	08/27/09 19:18	090827-6	896803
7439-97-6	Mercury	0.0135	mg/kg		0.00417	0.0123	0.01	1	AV	JXL1	08/26/09 11:14	082609S2-8	896851
7439-98-7	Molybdenum	0.313	mg/kg		0.0619	0.206	0.1	2	MS	BAJ	08/27/09 01:26	090826-5	896803
7440-02-0	Nickel	7.65	mg/kg		0.516	2.06	0.4	10	MS	BAJ	08/27/09 02:27	090826-5	896803
7782-49-2	Selenium	0.516	mg/kg	U	0.516	1.03	1	2	MS	BAJ	08/27/09 01:26	090826-5	896803
7440-22-4	Silver	0.0801	mg/kg	J	0.0413	0.206	0.2	2	MS	BAJ	08/27/09 01:26	090826-5	896803
7440-28-0	Thallium	0.220	mg/kg		0.0619	0.206	0.2	2	MS	BAJ	08/27/09 19:18	090827-6	896803
7440-62-2	Vanadium	22.9	mg/kg		2.06	10.3	1	10	MS	BAJ	08/27/09 02:27	090826-5	896803
7440-66-6	Zinc	43.3	mg/kg		2.06	10.3	5	10	MS	BAJ	08/27/09 02:27	090826-5	896803

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
896767	896766	SW846 3050B	0.5	g	50	mL	08/25/09	AXG2
896803	896802	SW846 3050B	0.516	g	50	mL	08/25/09	AXG2
896851	896848	SW846 7471A Prep	0.521	g	30	mL	08/25/09	TXB3
898216	898215	SW846 3050B	0.507	g	50	mL	08/28/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 235805

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 235805004

BASIS: Dry Weight

DATE COLLECTED 20-AUG-09

CLIENT ID: HZBS0174S001

LEVEL: Low

DATE RECEIVED 21-AUG-09

MATRIX: SOIL

%SOLIDS: 95.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8500	mg/kg		7.04	20.7	10	1	P	HSC	08/26/09 12:27	082609A-2	896767
7440-36-0	Antimony	0.342	mg/kg	U	0.342	1.04	1	1	P	HSC	08/26/09 12:27	082609A-2	896767
7440-38-2	Arsenic	3.56	mg/kg		0.209	1.05	0.5	2	MS	BAJ	08/27/09 01:32	090826-5	896803
7440-39-3	Barium	67.4	mg/kg		0.523	2.09	0.5	10	MS	BAJ	08/27/09 19:51	090827-6	896803
7440-41-7	Beryllium	0.599	mg/kg		0.0209	0.105	0.3	2	MS	BAJ	08/27/09 19:20	090827-6	896803
7440-42-8	Boron	1.04	mg/kg	U	1.04	5.18	5	1	P	HSC	08/26/09 12:27	082609A-2	896767
7440-43-9	Cadmium	0.185	mg/kg	J	0.0209	0.209	0.2	2	MS	BAJ	08/27/09 01:32	090826-5	896803
7440-47-3	Chromium	18.6	mg/kg		1.05	3.14	1	10	MS	BAJ	08/27/09 02:33	090826-5	896803
7440-48-4	Cobalt	4.39	mg/kg		0.314	1.05	0.5	10	MS	BAJ	08/27/09 02:33	090826-5	896803
7440-50-8	Copper	5.29	mg/kg	E	0.0676	0.205	0.2	2	MS	BAJ	08/31/09 15:59	090831-7	898216
7439-92-1	Lead	9.9	mg/kg		0.105	0.419	0.4	2	MS	BAJ	08/27/09 19:20	090827-6	896803
7439-97-6	Mercury	0.0112	mg/kg		0.00369	0.0109	0.01	1	AV	JXL1	08/26/09 11:16	082609S2-8	896851
7439-98-7	Molybdenum	0.378	mg/kg		0.0628	0.209	0.1	2	MS	BAJ	08/27/09 01:32	090826-5	896803
7440-02-0	Nickel	13.2	mg/kg		0.523	2.09	0.4	10	MS	BAJ	08/27/09 02:33	090826-5	896803
7782-49-2	Selenium	0.523	mg/kg	U	0.523	1.05	1	2	MS	BAJ	08/27/09 01:32	090826-5	896803
7440-22-4	Silver	0.0544	mg/kg	J	0.0419	0.209	0.2	2	MS	BAJ	08/27/09 01:32	090826-5	896803
7440-28-0	Thallium	0.217	mg/kg		0.0628	0.209	0.2	2	MS	BAJ	08/27/09 19:20	090827-6	896803
7440-62-2	Vanadium	25.7	mg/kg		2.09	10.5	1	10	MS	BAJ	08/27/09 02:33	090826-5	896803
7440-66-6	Zinc	44.7	mg/kg		2.09	10.5	5	10	MS	BAJ	08/27/09 02:33	090826-5	896803

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
896767	896766	SW846 3050B	0.506	g	50	mL	08/25/09	AXG2
896803	896802	SW846 3050B	0.501	g	50	mL	08/25/09	AXG2
896851	896848	SW846 7471A Prep	0.579	g	30	mL	08/25/09	TXB3
898216	898215	SW846 3050B	0.512	g	50	mL	08/28/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 235805

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 235805005

BASIS: Dry Weight

DATE COLLECTED 20-AUG-09

CLIENT ID: HZBS0174S002

LEVEL: Low

DATE RECEIVED 21-AUG-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	9680	mg/kg		7.07	20.8	10	1	P	HSC	08/26/09 12:34	082609A-2	896767
7440-36-0	Antimony	0.343	mg/kg	U	0.343	1.04	1	1	P	HSC	08/26/09 12:34	082609A-2	896767
7440-38-2	Arsenic	2.47	mg/kg		0.21	1.05	0.5	2	MS	BAJ	08/27/09 01:38	090826-5	896803
7440-39-3	Barium	40.3	mg/kg		0.525	2.1	0.5	10	MS	BAJ	08/27/09 19:54	090827-6	896803
7440-41-7	Beryllium	0.489	mg/kg		0.021	0.105	0.3	2	MS	BAJ	08/27/09 19:23	090827-6	896803
7440-42-8	Boron	1.04	mg/kg	U	1.04	5.2	5	1	P	HSC	08/26/09 12:34	082609A-2	896767
7440-43-9	Cadmium	0.0962	mg/kg	J	0.021	0.21	0.2	2	MS	BAJ	08/27/09 01:38	090826-5	896803
7440-47-3	Chromium	16	mg/kg		1.05	3.15	1	10	MS	BAJ	08/27/09 02:39	090826-5	896803
7440-48-4	Cobalt	3.12	mg/kg		0.315	1.05	0.5	10	MS	BAJ	08/27/09 02:39	090826-5	896803
7440-50-8	Copper	3.87	mg/kg	E	0.0671	0.203	0.2	2	MS	BAJ	08/31/09 16:01	090831-7	898216
7439-92-1	Lead	4.48	mg/kg		0.105	0.42	0.4	2	MS	BAJ	08/27/09 19:23	090827-6	896803
7439-97-6	Mercury	0.00368	mg/kg	U	0.00368	0.0108	0.01	1	AV	JXL1	08/26/09 11:18	082609S2-8	896851
7439-98-7	Molybdenum	0.174	mg/kg	J	0.063	0.21	0.1	2	MS	BAJ	08/27/09 01:38	090826-5	896803
7440-02-0	Nickel	6.15	mg/kg		0.525	2.1	0.4	10	MS	BAJ	08/27/09 02:39	090826-5	896803
7782-49-2	Selenium	0.525	mg/kg	U	0.525	1.05	1	2	MS	BAJ	08/27/09 01:38	090826-5	896803
7440-22-4	Silver	0.042	mg/kg	U	0.042	0.21	0.2	2	MS	BAJ	08/27/09 01:38	090826-5	896803
7440-28-0	Thallium	0.175	mg/kg	J	0.063	0.21	0.2	2	MS	BAJ	08/27/09 19:23	090827-6	896803
7440-62-2	Vanadium	24.5	mg/kg		2.1	10.5	1	10	MS	BAJ	08/27/09 02:39	090826-5	896803
7440-66-6	Zinc	34.5	mg/kg		2.1	10.5	5	10	MS	BAJ	08/27/09 02:39	090826-5	896803

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
896767	896766	SW846 3050B	0.505	g	50	mL	08/25/09	AXG2
896803	896802	SW846 3050B	0.5	g	50	mL	08/25/09	AXG2
896851	896848	SW846 7471A Prep	0.582	g	30	mL	08/25/09	TXB3
898216	898215	SW846 3050B	0.517	g	50	mL	08/28/09	BXA1

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, June 2009**

Report Date: September 1, 2009

Client Sample ID: EBQW2234
Sample ID: 235805001
Matrix: Water
Collect Date: 20-AUG-09 14:00
Receive Date: 21-AUG-09
Collector: Client

Project: SSFL00149
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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	MAR108/26/09	1650	897098	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, June 2009**

Report Date: September 1, 2009

Client Sample ID: HZBS0173S001
Sample ID: 235805002
Matrix: Soil
Collect Date: 20-AUG-09 09:40
Receive Date: 21-AUG-09
Collector: Client
Moisture: 2.91%

Project: SSFL00149
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	4.00	1.00	4.00	ug/L	1	MAR108/27/09	1411	897099	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, June 2009**

Report Date: September 1, 2009

Client Sample ID: HZBS0173S002
Sample ID: 235805003
Matrix: Soil
Collect Date: 20-AUG-09 09:57
Receive Date: 21-AUG-09
Collector: Client
Moisture: 6.13%

Project: SSFL00149
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	40.0	10.0	40.0	ug/L	10	MAR108/28/09	0933	897099	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	

GEL LABORATORIES LLC

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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, June 2009**

Report Date: September 1, 2009

Client Sample ID: HZBS0174S001
Sample ID: 235805004
Matrix: Soil
Collect Date: 20-AUG-09 10:35
Receive Date: 21-AUG-09
Collector: Client
Moisture: 4.62%

Project: SSFL00149
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	4.00	1.00	4.00	ug/L	1	MAR108/27/09	1530	897099	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, June 2009**

Report Date: September 1, 2009

Client Sample ID: HZBS0174S002
Sample ID: 235805005
Matrix: Soil
Collect Date: 20-AUG-09 10:56
Receive Date: 21-AUG-09
Collector: Client
Moisture: 4.82%

Project: SSFL00149
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	4.00	1.00	4.00	ug/L	1	MAR108/27/09	1549	897099	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: 1044
Lab Sample ID: 1044001
Client Sample: 1613 soil
Client ID: CNBS0137S001
Batch ID: 1372
Run Date: 08/30/2009 01:06
Data File: b29aug09a_2-5
Prep Batch: 1253
Prep Date: 26-AUG-09 14:00:00

Client: BOEN001
Date Collected: 08/24/2009 13:01
Date Received: 08/26/2009 09:40
Method: EPA Method 1613B
Analyst: HMP
Prep Method: SW846 3540C
Aliquot: 11.46 g

Project: BOEN00309
Matrix: Soil
%Moisture: 3.6
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	0.083	pg/g	0.083	0.453
40321-76-4	1,2,3,7,8-PeCDD	U	0.0913	pg/g	0.0913	2.26
39227-28-6	1,2,3,4,7,8-HxCDD	JK	0.168	pg/g	0.0964	2.26
57653-85-7	1,2,3,6,7,8-HxCDD	U	0.103	pg/g	0.103	2.26
19408-74-3	1,2,3,7,8,9-HxCDD	J	0.132	pg/g	0.105	2.26
35822-46-9	1,2,3,4,6,7,8-HpCDD		2.81	pg/g	0.174	2.26
3268-87-9	1,2,3,4,5,6,7,8-OCDD		34.9	pg/g	0.219	4.53
51207-31-9	2,3,7,8-TCDF		0.453	pg/g	0.161	0.453
57117-41-6	1,2,3,7,8-PeCDF	J	0.601	pg/g	0.111	2.26
57117-31-4	2,3,4,7,8-PeCDF	J	0.196	pg/g	0.111	2.26
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.304	pg/g	0.0621	2.26
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.116	pg/g	0.0679	2.26
60851-34-5	2,3,4,6,7,8-HxCDF	JK	0.134	pg/g	0.0712	2.26
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.0902	pg/g	0.0902	2.26
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.685	pg/g	0.0759	2.26
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.124	pg/g	0.124	2.26
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	2.40	pg/g	0.239	4.53
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.170	pg/g	0.083	0.453
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.375	pg/g	0.0913	2.26
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	1.29	pg/g	0.0964	2.26
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		9.25	pg/g	0.174	2.26
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	2.48	pg/g	0.161	0.453
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		3.97	pg/g	0.0464	2.26
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	1.78	pg/g	0.0621	2.26
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	1.80	pg/g	0.0759	2.26
	TEQ WHO2005 ND=0 with EMPCs		0.254	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.351	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		163	181	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDD		165	181	pg/g	91	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		168	181	pg/g	93	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		154	181	pg/g	85	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		153	181	pg/g	84	(23%-140%)
13C-OCDD		273	362	pg/g	75	(17%-157%)
13C-2,3,7,8-TCDF		160	181	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDF		168	181	pg/g	93	(24%-185%)
13C-2,3,4,7,8-PeCDF		170	181	pg/g	94	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		175	181	pg/g	97	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		156	181	pg/g	86	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		166	181	pg/g	91	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		171	181	pg/g	95	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		157	181	pg/g	87	(28%-143%)

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

Page 2 of 2

SDG Number: 1044	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1044001	Date Collected: 08/24/2009 13:01	Matrix: Soil
Client Sample: 1613 soil	Date Received: 08/26/2009 09:40	%Moisture: 3.6
Client ID: CNBS0137S001		Prep Basis: Dry Weight
Batch ID: 1372	Method: EPA Method 1613B	
Run Date: 08/30/2009 01:06	Analyst: HMP	Instrument: HRP763
Data File: b29aug09a_2-5		Dilution: 1
Prep Batch: 1253	Prep Method: SW846 3540C	
Prep Date: 26-AUG-09 14:00:00	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			162	181	pg/g	89
37Cl-2,3,7,8-TCDD			17.4	18.1	pg/g	96

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: 1044	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1044001	Date Collected: 08/24/2009 13:01	Matrix: Soil
Client Sample: 1613 soil	Date Received: 08/26/2009 09:40	%Moisture: 3.6
Client ID: CNBS0137S001		Prep Basis: Dry Weight
Batch ID: 1372	Method: EPA Method 1613B	
Run Date: 08/31/2009 13:04	Analyst: HMP	Instrument: HRP763
Data File: b31aug09a-7		Dilution: 1
Prep Batch: 1253	Prep Method: SW846 3540C	
Prep Date: 26-AUG-09 14:00:00	Aliquot: 11.46 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.404	pg/g	0.119	0.453

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: 1044	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1044002	Date Collected: 08/24/2009 13:14	Matrix: Soil
Client Sample: 1613 soil	Date Received: 08/26/2009 09:40	%Moisture: 6.1
Client ID: CNBS0138S001		Prep Basis: Dry Weight
Batch ID: 1372	Method: EPA Method 1613B	
Run Date: 08/30/2009 03:30	Analyst: HMP	Instrument: HRP763
Data File: b29aug09a_2-8		Dilution: 1
Prep Batch: 1253	Prep Method: SW846 3540C	
Prep Date: 26-AUG-09 14:00:00	Aliquot: 12.83 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.0543	pg/g	0.0543	0.415
40321-76-4	1,2,3,7,8-PeCDD	J	0.194	pg/g	0.0503	2.08
39227-28-6	1,2,3,4,7,8-HxCDD	J	0.214	pg/g	0.060	2.08
57653-85-7	1,2,3,6,7,8-HxCDD	J	0.183	pg/g	0.0646	2.08
19408-74-3	1,2,3,7,8,9-HxCDD	J	0.204	pg/g	0.0654	2.08
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	0.297	pg/g	0.098	2.08
3268-87-9	1,2,3,4,5,6,7,8-OCDD	JK	0.870	pg/g	0.199	4.15
51207-31-9	2,3,7,8-TCDF	J	0.330	pg/g	0.060	0.415
57117-41-6	1,2,3,7,8-PeCDF	JK	0.224	pg/g	0.0425	2.08
57117-31-4	2,3,4,7,8-PeCDF	JK	0.218	pg/g	0.0443	2.08
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.189	pg/g	0.038	2.08
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.196	pg/g	0.0387	2.08
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.213	pg/g	0.0402	2.08
72918-21-9	1,2,3,7,8,9-HxCDF	JK	0.206	pg/g	0.0512	2.08
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.214	pg/g	0.0616	2.08
55673-89-7	1,2,3,4,7,8,9-HpCDF	JK	0.194	pg/g	0.102	2.08
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	0.576	pg/g	0.237	4.15
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.0731	pg/g	0.0543	0.415
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.194	pg/g	0.0503	2.08
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	0.601	pg/g	0.060	2.08
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	0.424	pg/g	0.098	2.08
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.879	pg/g	0.060	0.415
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.442	pg/g	0.0264	2.08
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.804	pg/g	0.038	2.08
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.409	pg/g	0.0616	2.08
	TEQ WHO2005 ND=0 with EMPCs		0.447	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.475	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		147	166	pg/g	88	(25%-164%)
13C-1,2,3,7,8-PeCDD		151	166	pg/g	91	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		149	166	pg/g	90	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		141	166	pg/g	85	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		141	166	pg/g	85	(23%-140%)
13C-OCDD		192	332	pg/g	58	(17%-157%)
13C-2,3,7,8-TCDF		144	166	pg/g	86	(25%-164%)
13C-1,2,3,7,8-PeCDF		149	166	pg/g	90	(24%-185%)
13C-2,3,4,7,8-PeCDF		151	166	pg/g	91	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		152	166	pg/g	92	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		134	166	pg/g	81	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		146	166	pg/g	88	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		152	166	pg/g	91	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		141	166	pg/g	85	(28%-143%)

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

Page 2 of 2

SDG Number: 1044	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1044002	Date Collected: 08/24/2009 13:14	Matrix: Soil
Client Sample: 1613 soil	Date Received: 08/26/2009 09:40	%Moisture: 6.1
Client ID: CNBS0138S001		Prep Basis: Dry Weight
Batch ID: 1372	Method: EPA Method 1613B	
Run Date: 08/30/2009 03:30	Analyst: HMP	Instrument: HRP763
Data File: b29aug09a_2-8		Dilution: 1
Prep Batch: 1253	Prep Method: SW846 3540C	
Prep Date: 26-AUG-09 14:00:00	Aliquot: 12.83 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	166	pg/g	85	(26%-138%)
37Cl-2,3,7,8-TCDD		16.3	16.6	pg/g	98	(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: 1044	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1044002	Date Collected: 08/24/2009 13:14	Matrix: Soil
Client Sample: 1613 soil	Date Received: 08/26/2009 09:40	%Moisture: 6.1
Client ID: CNBS0138S001		Prep Basis: Dry Weight
Batch ID: 1372	Method: EPA Method 1613B	
Run Date: 08/31/2009 14:08	Analyst: HMP	Instrument: HRP763
Data File: b31aug09a-10		Dilution: 1
Prep Batch: 1253	Prep Method: SW846 3540C	
Prep Date: 26-AUG-09 14:00:00	Aliquot: 12.83 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.340	pg/g	0.131	0.415

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: 1044
Lab Sample ID: 1044003
Client Sample: 1613 water
Client ID: EBQW2236
Batch ID: 1453
Run Date: 09/01/2009 04:53
Data File: b31aug09b_2-4
Prep Batch: 1393
Prep Date: 30-AUG-09 14:00:00

Client: BOEN001
Date Collected: 08/24/2009 14:00
Date Received: 08/26/2009 09:40
Method: EPA Method 1613B
Analyst: HMP
Prep Method: SW846 3520C
Aliquot: 1049.7 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	0.943	pg/L	0.943	4.76
40321-76-4	1,2,3,7,8-PeCDD	U	0.852	pg/L	0.852	23.8
39227-28-6	1,2,3,4,7,8-HxCDD	U	1.02	pg/L	1.02	23.8
57653-85-7	1,2,3,6,7,8-HxCDD	U	1.13	pg/L	1.13	23.8
19408-74-3	1,2,3,7,8,9-HxCDD	U	1.13	pg/L	1.13	23.8
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	1.40	pg/L	1.40	23.8
3268-87-9	1,2,3,4,5,6,7,8-OCDD	U	2.17	pg/L	2.17	47.6
51207-31-9	2,3,7,8-TCDF	U	1.09	pg/L	1.09	4.76
57117-41-6	1,2,3,7,8-PeCDF	U	0.876	pg/L	0.876	23.8
57117-31-4	2,3,4,7,8-PeCDF	J	0.724	pg/L	0.617	23.8
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.688	pg/L	0.688	23.8
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.743	pg/L	0.743	23.8
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.800	pg/L	0.718	23.8
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.911	pg/L	0.911	23.8
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.838	pg/L	0.810	23.8
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	1.29	pg/L	1.29	23.8
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	2.27	pg/L	2.27	47.6
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	0.943	pg/L	0.943	4.76
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	0.852	pg/L	0.852	23.8
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	1.02	pg/L	1.02	23.8
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	U	1.40	pg/L	1.40	23.8
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	U	1.09	pg/L	1.09	4.76
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	1.60	pg/L	0.564	23.8
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	1.54	pg/L	0.688	23.8
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.838	pg/L	0.810	23.8
	TEQ WHO2005 ND=0 with EMPCs		0.406	pg/L		
	TEQ WHO2005 ND=0.5 with EMPCs		1.62	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1530	1910	pg/L	80	(25%-164%)
13C-1,2,3,7,8-PeCDD		1590	1910	pg/L	83	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1510	1910	pg/L	79	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1480	1910	pg/L	78	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1630	1910	pg/L	85	(23%-140%)
13C-OCDD		3000	3810	pg/L	79	(17%-157%)
13C-2,3,7,8-TCDF		1500	1910	pg/L	79	(25%-164%)
13C-1,2,3,7,8-PeCDF		1710	1910	pg/L	90	(24%-185%)
13C-2,3,4,7,8-PeCDF		1680	1910	pg/L	88	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1540	1910	pg/L	81	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1360	1910	pg/L	71	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1510	1910	pg/L	79	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1580	1910	pg/L	83	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1560	1910	pg/L	82	(28%-143%)

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

Page 2 of 2

SDG Number: 1044	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1044003	Date Collected: 08/24/2009 14:00	Matrix: Water
Client Sample: 1613 water	Date Received: 08/26/2009 09:40	
Client ID: EBQW2236		Prep Basis: As Received
Batch ID: 1453	Method: EPA Method 1613B	
Run Date: 09/01/2009 04:53	Analyst: HMP	Instrument: HRP763
Data File: b31aug09b_2-4		Dilution: 1
Prep Batch: 1393	Prep Method: SW846 3520C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 1049.7 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			1730	1910	pg/L	91 (26%-138%)
37Cl-2,3,7,8-TCDD			150	191	pg/L	79 (35%-197%)

Comments:

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



March 01, 2010

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

Re: SSFL
Project Number: 1891614.054521
Project Name: ISRA Sampling, June 2009
Work Order: 235913
SDG: 235913

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 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: 1891614.054521
Chain of Custody: MWHMM20090824_00
Enclosures

GC/MS Volatile Analysis

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235913
Lab Sample ID: 235913004

Client: SSFL001
Date Collected: 08/24/2009 14:00
Date Received: 08/25/2009 08:50

Project: SSFL00149
Matrix: Wa

Client ID: FBQW2239
Batch ID: 897940
Run Date: 08/27/2009 17:37
Data File: 7a415.d
Prep Batch: 897940
Prep Date: 08/27/2009 17:37

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 8260B

Prep Basis: As Received
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-88-7	2-Chloro-1,1,1-trifluoroethane	U	10.0	ug/L	3.00	10.0	5.00
79-38-9	Chlorotrifluoroethylene	U	10.0	ug/L	3.00	10.0	5.00
75-71-8	Dichlorodifluoromethane	U	1.00	ug/L	0.300	1.00	5.00
74-87-3	Chloromethane	U	1.00	ug/L	0.300	1.00	5.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	2.00
74-83-9	Bromomethane	U	1.00	ug/L	0.300	1.00	5.00
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00	5.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.300	1.00	5.00
67-64-1	Acetone	U	5.00	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethene <i>1,1-Dichloroethylene</i>	U	1.00	ug/L	0.300	1.00	5.00
75-09-2	Methylene chloride	U	5.00	ug/L	2.00	5.00	5.00
1634-04-4	Methyl-tert-butyl Ether (MTBE) <i>tert-Butyl methyl ether</i>	U	1.00	ug/L	0.250	1.00	5.00
156-60-5	trans-1,2-Dichloroethene <i>trans-1,2-Dichloroethylene</i>	U	1.00	ug/L	0.300	1.00	2.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	2.00
78-93-3	2-Butanone (MEK) <i>2-Butanone</i>	U	5.00	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethene <i>cis-1,2-Dichloroethylene</i>	U	1.00	ug/L	0.300	1.00	2.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/L	0.300	1.00	1.00
67-66-3	Chloroform	U	1.00	ug/L	0.250	1.00	2.00
74-97-5	Bromochloromethane	U	1.00	ug/L	0.300	1.00	5.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.325	1.00	2.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/L	0.250	1.00	2.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.300	1.00	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	2.00
79-01-6	Trichloroethene <i>Trichloroethylene</i>	U	1.00	ug/L	0.250	1.00	2.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	2.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	2.00
74-95-3	Dibromomethane	U	1.00	ug/L	0.300	1.00	1.00
110-75-8	2-Chloroethyl vinyl ether <i>2-Chloroethylvinyl ether</i>	U	5.00	ug/L	1.50	5.00	5.00
108-10-1	4-Methyl-2-pentanone (MIBK) <i>4-Methyl-2-pentanone</i>	U	5.00	ug/L	1.25	5.00	5.00
10061-01-5	cis-1,3-Dichloropropene <i>cis-1,3-Dichloropropylene</i>	U	1.00	ug/L	0.250	1.00	2.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00	2.00

Comments:

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235913
Lab Sample ID: 235913004

Client: SSFL001
Date Collected: 08/24/2009 14:00
Date Received: 08/25/2009 08:50

Project: SSFL00149
Matrix: Wa

Client ID: FBQW2239
Batch ID: 897940
Run Date: 08/27/2009 17:37
Data File: 7a415.d
Prep Batch: 897940
Prep Date: 08/27/2009 17:37

Method: SW846 8260B
Analyst: AXO1
Purge Vol: 5 mL
Prep Method: SW846 8260B

Prep Basis: As Received
SOP Ref: GL-OA-E-038
Instrument: VOA7.I
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
10061-02-6	trans-1,3-Dichloropropene <i>trans-1,3-Dichloropropylene</i>	U	1.00	ug/L	0.250	1.00	2.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	2.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00	10.0
142-28-9	1,3-Dichloropropane	U	1.00	ug/L	0.300	1.00	2.00
127-18-4	Tetrachloroethene <i>Tetrachloroethylene</i>	U	1.00	ug/L	0.300	1.00	2.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.300	1.00	2.00
106-93-4	1,2-Dibromoethane (EDB) <i>1,2-Dibromoethane</i>	U	1.00	ug/L	0.250	1.00	2.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	2.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00	2.00
179601-23-1	m,p-Xylenes	U	2.00	ug/L	0.500	2.00	2.00
95-47-6	o-Xylene	U	1.00	ug/L	0.300	1.00	2.00
100-42-5	Styrene	U	1.00	ug/L	0.250	1.00	2.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	5.00
79-34-5	1,1,2,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	2.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/L	0.300	1.00	1.00
108-86-1	Bromobenzene	U	1.00	ug/L	0.250	1.00	5.00
103-65-1	n-Propylbenzene	U	1.00	ug/L	0.250	1.00	2.00
95-49-8	2-Chlorotoluene	U	1.00	ug/L	0.250	1.00	5.00
98-82-8	Isopropylbenzene	U	1.00	ug/L	0.250	1.00	2.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/L	0.250	1.00	2.00
106-43-4	4-Chlorotoluene	U	1.00	ug/L	0.250	1.00	5.00
98-06-6	tert-Butylbenzene	U	1.00	ug/L	0.250	1.00	5.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/L	0.250	1.00	2.00
135-98-8	sec-Butylbenzene	U	1.00	ug/L	0.250	1.00	5.00
99-87-6	p-Isopropyltoluene <i>4-Isopropyltoluene</i>	U	1.00	ug/L	0.250	1.00	2.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	2.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	2.00
104-51-8	n-Butylbenzene	U	1.00	ug/L	0.250	1.00	5.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/L	0.300	1.00	5.00
87-68-3	Hexachlorobutadiene	U	1.00	ug/L	0.300	1.00	5.00
87-61-6	1,2,3-Trichlorobenzene	U	1.00	ug/L	0.332	1.00	5.00
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane <i>Trichlorotrifluoroethane</i>	U	5.00	ug/L	1.00	5.00	5.00

Comments:

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

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 235913
 Lab Sample ID: 235913004

Client: SSFL001
 Date Collected: 08/24/2009 14:00
 Date Received: 08/25/2009 08:50

Project: SSFL00149
 Matrix: Wa

Client ID: FBQW2239
 Batch ID: 897940
 Run Date: 08/27/2009 17:37
 Data File: 7a415.d
 Prep Batch: 897940
 Prep Date: 08/27/2009 17:37

Method: SW846 8260B
 Analyst: AXO1
 Purge Vol: 5 mL
 Prep Method: SW846 8260B

Prep Basis: As Received
 SOP Ref: GL-OA-E-038
 Instrument: VOA7.I
 Dilution: 1

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/L	0.300	1.00	1.00
120-82-1	1,2,4-Trichlorobenzene	U	1.00	ug/L	0.300	1.00	5.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	2.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	43.4	50.0	ug/L	86.9	(59%-130%)
Bromofluorobenzene	48.1	50.0	ug/L	96.2	(71%-126%)
Toluene-d8	49.4	50.0	ug/L	98.7	(76%-129%)

Comments:

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

GC/MS Semivolatile Analysis

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

Page 1 of 1

SDG Number: 235913
Lab Sample ID: 235913004

Client: SSFL001
Date Collected: 08/24/2009 14:00
Date Received: 08/25/2009 08:50

Project: SSFL00149
Matrix: Wa

Client ID: FBQW2239
Batch ID: 897518
Run Date: 08/31/2009 14:42
Data File: s4h3116.d
Prep Batch: 897517
Prep Date: 08/27/2009 17:04

Method: SW846 8270C Low Level
Analyst: JMB3
Inj. Vol: .5 uL
Prep Method: SW846 3510C
Aliquot: 1050 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-009
Instrument: MSD4I
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	0.476	ug/L	0.0952	0.476	10.0
83-32-9	Acenaphthene	U	0.476	ug/L	0.148	0.476	10.0
129-00-0	Pyrene	U	0.476	ug/L	0.143	0.476	10.0
91-20-3	Naphthalene	U	0.476	ug/L	0.143	0.476	10.0
91-57-6	2-Methylnaphthalene	U	0.476	ug/L	0.143	0.476	10.0
90-12-0	1-Methylnaphthalene	U	0.476	ug/L	0.143	0.476	10.0
131-11-3	Dimethylphthalate	U	0.476	ug/L	0.143	0.476	10.0
208-96-8	Acenaphthylene	U	0.476	ug/L	0.0952	0.476	10.0
84-66-2	Diethylphthalate	U	0.476	ug/L	0.143	0.476	10.0
86-73-7	Fluorene	U	0.476	ug/L	0.0952	0.476	10.0
85-01-8	Phenanthrene	U	0.476	ug/L	0.0952	0.476	10.0
120-12-7	Anthracene	U	0.476	ug/L	0.0952	0.476	10.0
84-74-2	Di-n-butylphthalate	U	0.476	ug/L	0.143	0.476	10.0
206-44-0	Fluoranthene	U	0.476	ug/L	0.0952	0.476	10.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	0.476	ug/L	0.143	0.476	10.0
56-55-3	Benzo(a)anthracene	U	0.476	ug/L	0.0952	0.476	10.0
218-01-9	Chrysene	U	0.476	ug/L	0.0952	0.476	10.0
117-81-7	bis(2-Ethylhexyl)phthalate	BJ	0.165	ug/L	0.143	0.476	10.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	0.476	ug/L	0.143	0.476	10.0
205-99-2	Benzo(b)fluoranthene	U	0.476	ug/L	0.0952	0.476	10.0
207-08-9	Benzo(k)fluoranthene	U	0.476	ug/L	0.0952	0.476	10.0
50-32-8	Benzo(a)pyrene	U	0.476	ug/L	0.0952	0.476	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.476	ug/L	0.0952	0.476	10.0
53-70-3	Dibenzo(a,h)anthracene	U	0.476	ug/L	0.0952	0.476	20.0
191-24-2	Benzo(ghi)perylene	U	0.476	ug/L	0.0952	0.476	10.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2-Fluorobiphenyl	13.5	23.8	ug/L	56.6	(35%-100%)
Nitrobenzene-d5	14.2	23.8	ug/L	59.5	(40%-112%)
p-Terphenyl-d14	16.8	23.8	ug/L	70.6	(46%-130%)
2,4,6-Tribromophenol	20.5	47.6	ug/L	43.1	(39%-115%)
2-Fluorophenol	15.9	47.6	ug/L	33.4	(25%-92%)
Phenol-d5	10.7	47.6	ug/L	22.5	(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.

HPLC Explosive Analysis

**Explosives by HPLC
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 235913
Lab Sample ID: 235913004

Client: SSFL001
Date Collected: 08/24/2009 14:00
Date Received: 08/25/2009 08:50

Project: SSFL00149
Matrix: Wa

Client ID: FBQW2239RA
Batch ID: 896720
Run Date: 08/29/2009 17:59
Data File: ex3h2918.d
Prep Batch: 896719
Prep Date: 08/26/2009 10:47

Method: SW846 3535/8330
Analyst: CWW
Inj. Vol: 100 uL
Prep Method: SW846 Method 3535
Aliquot: 770 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-033
Instrument: HPLCC.I
Dilution: 2
Prep SOP Ref: GL-OA-E-033
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
2691-41-0	HMX	U	0.487	ug/L	0.162	0.487	0.500
121-82-4	RDX	U	0.487	ug/L	0.162	0.487	0.500
479-45-8	Tetryl	U	1.46	ug/L	0.487	1.46	1.5
118-96-7	2,4,6-Trinitrotoluene	U	0.487	ug/L	0.162	0.487	0.500
19406-51-0	4-Amino-2,6-dinitrotoluene	U	0.487	ug/L	0.162	0.487	0.500
88-72-2	o-Nitrotoluene	U	0.487	ug/L	0.162	0.487	0.500
99-99-0	p-Nitrotoluene	U	0.487	ug/L	0.162	0.487	0.500
99-08-1	m-Nitrotoluene	U	0.325	ug/L	0.126	0.325	0.500
78-11-5	PETN	U	1.95	ug/L	0.649	1.95	2.00
121-14-2	2,4-Dinitrotoluene	U	0.487	ug/L	0.162	0.487	0.500
98-95-3	Nitrobenzene	U	0.325	ug/L	0.0649	0.325	0.500
606-20-2	2,6-Dinitrotoluene	U	0.487	ug/L	0.162	0.487	0.500
99-65-0	m-Dinitrobenzene	U	0.325	ug/L	0.0649	0.325	0.500
99-35-4	1,3,5-Trinitrobenzene	U	0.325	ug/L	0.0649	0.325	0.500

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	3.16	3.25	ug/L	97.4	(70%-130%)

Comments:

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

**Explosives by HPLC
Certificate of Analysis
Sample Summary**

Page 1 of 1

SDG Number: 235913
Lab Sample ID: 235913004

Client: SSFL001
Date Collected: 08/24/2009 14:00
Date Received: 08/25/2009 08:50

Project: SSFL00149
Matrix: Wa

Client ID: FBQW2239
Batch ID: 896720
Run Date: 08/27/2009 14:21
Data File: ex6h2709.d
Prep Batch: 896719
Prep Date: 08/26/2009 10:47

Method: SW846 3535/8330
Analyst: CWW
Inj. Vol: 100 uL
Prep Method: SW846 Method 3535
Aliquot: 770 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-033
Instrument: HPLCF.I
Dilution: 2
Prep SOP Ref: GL-OA-E-033
Final Volume: 5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
55-63-0	Nitroglycerin	U	1.95	ug/L	0.649	1.95	2.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	3.04	3.25	ug/L	93.5	(70%-130%)

Comments:

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

LC/MS/MS
EXPLOSIVES
ANALYSIS

High Explosives Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Client Sample ID: FBQW2239

Lab Code: GEL

GEL Job No (SDG) 235913

Matrix: WATER

GEL Sample ID: 235913004

Sample Amount 770

Moisture:

Amount Units mL

Date Received: 25-AUG-09

Extraction Type Sol Exchange

Extraction Batch ID: 896726

Concentrated Extract Volume (mL) 5

Date Extracted: 26-AUG-09

Dilution Factor: 2

Injection Volume (uL): 50

GEL data file: EXS0828018.wiff

Date Analyzed: 28-AUG-09 19:45

Units: ug/L

Cas No.	Compound	Concentration*	Q
59229-75-3	2,6-Diamino-4-nitrotoluene	1.3	U
6629-29-4	2,4-Diamino-6-nitrotoluene	1.3	U

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Sample Amount}} \times \text{Dilution Factor}$$

GC
SEMIVOLATILE
PCB
ANALYSIS

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 235913
Lab Sample ID: 235913004

Client: SSFL001
Date Collected: 08/24/2009 14:00
Date Received: 08/25/2009 08:50

Project: SSFL00149
Matrix: Wa

Client ID: FBQW2239
Batch ID: 897890
Run Date: 08/31/2009 09:03
Data File: Dual Column
Prep Batch: 897889
Prep Date: 08/28/2009 18:29

Method: SW846 8082
Analyst: YS1
Inj. Vol: 1 uL
Prep Method: SW846 3510C
Aliquot: 1050 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-040
Instrument: ECD1A.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	018f1801.d
11104-28-2	Aroclor-1221	U	0.0952	ug/L	0.0317	0.0952	0.200	018f1801.d
11141-16-5	Aroclor-1232	U	0.0952	ug/L	0.0317	0.0952	0.100	018f1801.d
53469-21-9	Aroclor-1242	U	0.0952	ug/L	0.0317	0.0952	0.100	018f1801.d
12672-29-6	Aroclor-1248	U	0.0952	ug/L	0.0317	0.0952	0.100	018f1801.d
11097-69-1	Aroclor-1254	U	0.0952	ug/L	0.0317	0.0952	0.100	018f1801.d
11096-82-5	Aroclor-1260	U	0.0952	ug/L	0.0317	0.0952	0.100	018f1801.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	0.107	0.190	ug/L	56.3	(29%–103%)	018f1801.d
Decachlorobiphenyl	0.0948	0.190	ug/L	49.8	(34%–118%)	018f1801.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: 235913

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 235913001

BASIS: Dry Weight

DATE COLLECTED 24-AUG-09

CLIENT ID: CNBS0137S001

LEVEL: Low

DATE RECEIVED 25-AUG-09

MATRIX: SOIL

%SOLIDS: 98.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	8.23	mg/kg		0.333	1.01	0.2	10	MS	BAJ	08/26/09 23:42	090826-2	897013
7439-92-1	Lead	9.57	mg/kg		0.101	0.404	0.4	2	MS	BAJ	08/27/09 17:34	090827-3	897013

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
897013	897012	SW846 3050B	0.505	g	50	mL	08/26/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 235913

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 235913002

BASIS: Dry Weight

DATE COLLECTED 24-AUG-09

CLIENT ID: CNBS0138S001

LEVEL: Low

DATE RECEIVED 25-AUG-09

MATRIX: SOIL

%SOLIDS: 97.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	11.3	mg/kg		0.336	1.02	0.2	10	MS	BAJ	08/27/09 00:12	090826-2	897013
7439-92-1	Lead	7.19	mg/kg		0.102	0.407	0.4	2	MS	BAJ	08/27/09 17:47	090827-3	897013

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
897013	897012	SW846 3050B	0.504	g	50	mL	08/26/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 235913

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 235913003

BASIS: As Received

DATE COLLECTED 24-AUG-09

CLIENT ID: EBQW2236

LEVEL: Low

DATE RECEIVED 25-AUG-09

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	1.09	ug/L		0.33	1	1	1	MS	BAJ	08/28/09 16:21	090828-4	897299
7439-92-1	Lead	0.50	ug/L	U	0.5	2	2	1	MS	BAJ	08/28/09 16:21	090828-4	897299

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
897299	897298	SW846 3005A	50	mL	50	mL	08/26/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 235913

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 235913004

BASIS: As Received

DATE COLLECTED 24-AUG-09

CLIENT ID: FBQW2239

LEVEL: Low

DATE RECEIVED 25-AUG-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	08/27/09 12:26	082709A-1	897209
7440-36-0	Antimony	4.7	ug/L	J	3	10	10	1	P	HSC	08/27/09 12:26	082709A-1	897209
7440-38-2	Arsenic	1.6	ug/L	U	1.6	5	5	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7440-39-3	Barium	0.60	ug/L	U	0.6	2	2	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7440-41-7	Beryllium	0.10	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7440-42-8	Boron	15	ug/L	U	15	50	50	1	P	HSC	08/27/09 12:26	082709A-1	897209
7440-43-9	Cadmium	0.110	ug/L	U	0.11	1	1	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7440-47-3	Chromium	2	ug/L	U	2	10	3	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7440-48-4	Cobalt	0.10	ug/L	U	0.1	1	1	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7440-50-8	Copper	0.330	ug/L	U	0.33	1	1	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7439-92-1	Lead	0.50	ug/L	U	0.5	2	2	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7439-97-6	Mercury	0.066	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	08/27/09 10:58	082709W1-5	897049
7439-98-7	Molybdenum	0.167	ug/L	U	0.167	0.5	0.5	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7440-02-0	Nickel	0.50	ug/L	U	0.5	2	2	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7782-49-2	Selenium	1	ug/L	U	1	5	5	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7440-22-4	Silver	0.20	ug/L	U	0.2	1	1	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7440-28-0	Thallium	0.30	ug/L	U	0.3	1	1	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7440-62-2	Vanadium	3	ug/L	U	3	10	10	1	MS	BAJ	08/28/09 16:33	090828-4	897299
7440-66-6	Zinc	3	ug/L	U	3	10	10	1	MS	BAJ	08/28/09 16:33	090828-4	897299

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
897049	897047	SW846 7470A Prep	20	mL	20	mL	08/26/09	TXB3
897209	897208	SW846 3005A	50	mL	50	mL	08/26/09	FGA
897299	897298	SW846 3005A	50	mL	50	mL	08/26/09	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, June 2009**

Report Date: August 29, 2009

Client Sample ID: FBQW2239
Sample ID: 235913004
Matrix: Wa
Collect Date: 24-AUG-09 14:00
Receive Date: 25-AUG-09
Collector: Client

Project: SSFL00149
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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	MAR108/26/09	1710	897098	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 314.0	



December 08, 2009

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

Re: SSFL
Project Number: 1891614
Project Name: ISRA Sampling
Work Order: 235959
SDG: 235959

Dear Ms. Schultz,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 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
Chain of Custody:
Enclosures

Page: _____ of _____
 Project #: _____
 GEL Quote #: _____
 COC Number ⁽¹⁾: _____
 PO Number: _____

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: **235959**

Client Name: **Boeing (MWH)** Phone #: **925-627-4627**

Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)

Project/Site Name: **ISRA Sampling** Fax #: **925-627-4501**

Address: **2121 N. California Blvd, Suite 600, Walnut Creek, CA 94596**

Collected by: **M. Milman-Barris** and Results To: **Sarah Von Raesfeld**

Sample ID <small>* For composites - indicate start and stop date/time</small>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code ⁽²⁾	Field Filtered ⁽³⁾	Sample Matrix ⁽⁴⁾	Radioactive Should this sample be considered:	TSCA Regulated	Total number of containers	Sr-90 by EPA 905.0	Tritium by EPA 906.0	Gamma Spec by 901.1					Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
ISWC0096 Rad S001	8-24-09	10:07		-	soil			2	X	X	X						
ISWC0097 Rad S001		10:25						2	X	X	X						
ISWC0098 Rad S001		10:38						2	X	X	X						
ISWC0099 Rad S001		10:59						2	X	X	X						
ISWC0100 Rad S001		11:21						2	X	X	X						
ISWC0101 Rad S001		11:41						2	X	X	X						
ISWC0102 Rad S001		11:55						2	X	X	X						
ISWC0103 Rad S001		12:09						2	X	X	X						

TAT Requested: Normal: _____ Rush: _____ Specify: **5 days** (Subject to Surcharge) Fax Results: Yes / No Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: **Gamma Spec should include Na-22, K-40, Mn-54, Co-60, Cs-134, Cs-137, Eu-152, Eu-154, Th-228, Th-232, U-235, U-238 and Am-241.**
 Sample Collection Time Zone: Eastern Pacific Central Other

Chain of Custody Signatures						Sample Shipping and Delivery Details	
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time		
Margaret Milman-Barris	8-24-09	15:00	R.M. Stelling	8/25/09	8:50	GEL PM: Jackie Trudell	
2			2			Method of Shipment: _____ Date Shipped: _____	
3			3			Airbill #: _____	

- Chain of Custody Number = Client Determined
- QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
- Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
- Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N
- Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
- Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only

Custody Seal Intact?
 YES NO

Cooler Temp:
 _____ C



SAMPLE RECEIPT & REVIEW FORM

Client: SSF1

SDG/ARCOC/Work Order: 235959

Received By: Rms

Date Received: 8/25/09

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?

Maximum Counts Observed*:

Classified Radioactive II or III by RSO?

40CPM

COC/Samples marked containing PCBs?

Shipped as a DOT Hazardous?

Hazard Class Shipped:

UN#:

Samples identified as Foreign Soil?

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>2c</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:

Fx: 9457 3158 4152

PM (or PMA) review: Initials

JT

Date

8/25/09

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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID:	ISWC0096RadS001	Project:	SSFL00153
Sample ID:	235959001	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	24-AUG-09 10:07		
Receive Date:	25-AUG-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.115	+/-0.111	0.197		pCi/g		MXR108/26/09	1844	897110	1	
Cesium-134 13967709	UI	0.00	+/-0.0427	0.061		pCi/g						
Cesium-137 10045973		0.135	+/-0.0405	0.0415	0.050	pCi/g						
Cobalt-60 10198400	U	0.0101	+/-0.0259	0.0452		pCi/g						
Europium-152 14683239	U	-0.0635	+/-0.059	0.0991		pCi/g						
Europium-154 15585101	U	0.000929	+/-0.082	0.140		pCi/g						
Manganese-54 13966319	U	-0.0205	+/-0.0239	0.0385		pCi/g						
Potassium-40 13966002		23.5	+/-2.05	0.323		pCi/g						
Sodium-22 13966320	U	-0.000807	+/-0.0291	0.0494		pCi/g						
Thorium-228 14274829		1.32	+/-0.141	0.0596		pCi/g						
Thorium-232 7440291		1.40	+/-0.240	0.132		pCi/g						
Uranium-235 15117961	U	0.0308	+/-0.160	0.220		pCi/g						
Uranium-238 7440611	U	0.664	+/-1.39	1.54		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0192	+/-0.0213	0.0356	0.050	pCi/g		JXR1	08/29/09	1637	897053	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.468	+/-0.534	0.898	1.00	pCi/g		KXX2	08/27/09	1845	897064	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID: ISWC0096RadS001
Sample ID: 235959001
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	08/25/09	1420	897019			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			75.5	(25%–125%)

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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID: ISWC0097RadS001
Sample ID: 235959002
Matrix: Soil
Collect Date: 24-AUG-09 10:25
Receive Date: 25-AUG-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	-0.0101	+/-0.147	0.247		pCi/g		MXR	108/26/09	1845	897110	1
Cesium-134 13967709	UI	0.00	+/-0.0308	0.0489		pCi/g						
Cesium-137 10045973		0.221	+/-0.0373	0.0339	0.050	pCi/g						
Cobalt-60 10198400	U	-1.24E-05	+/-0.0234	0.0401		pCi/g						
Europium-152 14683239	U	-0.0128	+/-0.0656	0.0938		pCi/g						
Europium-154 15585101	U	-0.0103	+/-0.0681	0.116		pCi/g						
Manganese-54 13966319	U	0.00524	+/-0.0232	0.0353		pCi/g						
Potassium-40 13966002		23.3	+/-2.22	0.304		pCi/g						
Sodium-22 13966320	U	-0.00406	+/-0.0243	0.0415		pCi/g						
Thorium-228 14274829		1.29	+/-0.114	0.0512		pCi/g						
Thorium-232 7440291		1.29	+/-0.239	0.118		pCi/g						
Uranium-235 15117961	U	0.091	+/-0.118	0.208		pCi/g						
Uranium-238 7440611		1.95	+/-1.35	1.82		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.012	+/-0.0182	0.0318	0.050	pCi/g		JXR	1	08/29/09	1637	897053 2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.366	+/-0.530	0.897	1.00	pCi/g		KXX	2	08/27/09	2049	897064 3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID: ISWC0097RadS001
Sample ID: 235959002
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	08/25/09	1420	897019			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			75.5	(25%–125%)

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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID: ISWC0098RadS001
Sample ID: 235959003
Matrix: Soil
Collect Date: 24-AUG-09 10:38
Receive Date: 25-AUG-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	-0.0151	+/-0.0858	0.147		pCi/g		MXR1	08/26/09	1845	897110	1
Cesium-134 13967709	UI	0.00	+/-0.0369	0.0561		pCi/g						
Cesium-137 10045973	U	0.0242	+/-0.0273	0.0347	0.050	pCi/g						
Cobalt-60 10198400	U	-0.00254	+/-0.0203	0.0341		pCi/g						
Europium-152 14683239	U	-0.0308	+/-0.0559	0.0841		pCi/g						
Europium-154 15585101	U	-0.00664	+/-0.0701	0.119		pCi/g						
Manganese-54 13966319	U	-0.00451	+/-0.0213	0.036		pCi/g						
Potassium-40 13966002		22.2	+/-1.83	0.267		pCi/g						
Sodium-22 13966320	U	-0.0022	+/-0.025	0.0423		pCi/g						
Thorium-228 14274829		1.33	+/-0.112	0.0498		pCi/g						
Thorium-232 7440291		1.11	+/-0.223	0.127		pCi/g						
Uranium-235 15117961	U	0.0688	+/-0.141	0.196		pCi/g						
Uranium-238 7440611	U	1.03	+/-0.937	1.22		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	-0.0147	+/-0.0197	0.047	0.050	pCi/g		JXR1	08/29/09	1638	897053	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.242	+/-0.530	0.905	1.00	pCi/g		KXK2	08/27/09	2252	897064	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID: ISWC0098RadS001
Sample ID: 235959003
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	08/25/09	1420	897019			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			52.8	(25%–125%)

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Company : MECx, LLC
Address : 3061 West 92nd Ave
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 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **ISRA HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID: ISWC0099RadS001
Sample ID: 235959004
Matrix: Soil
Collect Date: 24-AUG-09 10:59
Receive Date: 25-AUG-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium-241 14596-10-2	U	0.0254	+/-0.0748	0.125		pCi/g		MXR108/26/09	1845	897110	1
Cesium-134 13967709	UI	0.00	+/-0.0385	0.0513		pCi/g					
Cesium-137 10045973	U	-0.00336	+/-0.0214	0.0365	0.050	pCi/g					
Cobalt-60 10198400	U	0.0096	+/-0.0211	0.037		pCi/g					
Europium-152 14683239	U	-0.0136	+/-0.0728	0.0887		pCi/g					
Europium-154 15585101	U	0.0109	+/-0.0763	0.113		pCi/g					
Manganese-54 13966319	U	0.00126	+/-0.0206	0.0366		pCi/g					
Potassium-40 13966002		23.9	+/-1.97	0.310		pCi/g					
Sodium-22 13966320	U	0.00403	+/-0.0271	0.0403		pCi/g					
Thorium-228 14274829		1.26	+/-0.107	0.0522		pCi/g					
Thorium-232 7440291		1.28	+/-0.230	0.123		pCi/g					
Uranium-235 15117961	U	-0.0363	+/-0.121	0.211		pCi/g					
Uranium-238 7440611	U	0.888	+/-0.763	1.09		pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium-90 10098972	U	0.0268	+/-0.0297	0.0494	0.050	pCi/g		JXR1 08/29/09	1638	897053	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028-17-8	U	0.178	+/-0.525	0.902	1.00	pCi/g		KXX2 08/28/09	0056	897064	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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GEL LABORATORIES LLC

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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID: ISWC0099RadS001
Sample ID: 235959004
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	08/25/09	1420	897019			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			52.8	(25%–125%)

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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID:	ISWC0100RadS001	Project:	SSFL00153
Sample ID:	235959005	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	24-AUG-09 11:21		
Receive Date:	25-AUG-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Americium-241 14596-10-2	U	0.0372	+/-0.163	0.308		pCi/g		MXR108/26/09	1846	897110	1
Cesium-134 13967709	UI	0.00	+/-0.0521	0.0611		pCi/g					
Cesium-137 10045973	U	0.0108	+/-0.0267	0.0463	0.050	pCi/g					
Cobalt-60 10198400	U	-0.0146	+/-0.0253	0.040		pCi/g					
Europium-152 14683239	U	-0.00806	+/-0.0803	0.116		pCi/g					
Europium-154 15585101	U	0.0287	+/-0.076	0.131		pCi/g					
Manganese-54 13966319	U	0.00802	+/-0.0222	0.0396		pCi/g					
Potassium-40 13966002		22.8	+/-2.03	0.317		pCi/g					
Sodium-22 13966320	U	0.010	+/-0.027	0.0467		pCi/g					
Thorium-228 14274829		1.28	+/-0.128	0.0669		pCi/g					
Thorium-232 7440291		1.34	+/-0.234	0.151		pCi/g					
Uranium-235 15117961	U	0.211	+/-0.161	0.257		pCi/g					
Uranium-238 7440611	U	-0.837	+/-1.29	2.32		pCi/g					

Rad Gas Flow Proportional Counting

GFPC, Sr90, solid "Dry Weight Corrected"

Strontium-90 10098972	U	-0.000186	+/-0.0228	0.0454	0.050	pCi/g		JXR1 08/29/09	1638	897053	2
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Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid "As Received"

Tritium 10028-17-8	U	0.761	+/-0.547	0.900	1.00	pCi/g		KXX2 08/28/09	0259	897064	3
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID: ISWC0100RadS001
Sample ID: 235959005
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	08/25/09	1420	897019			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			59.3	(25%–125%)

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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID:	ISWC0101RadS001	Project:	SSFL00153
Sample ID:	235959006	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	24-AUG-09 11:41		
Receive Date:	25-AUG-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0935	+/-0.123	0.209		pCi/g		MXR108/26/09	1857	897110	1
Cesium-134 13967709	UI	0.00	+/-0.0366	0.0591		pCi/g					
Cesium-137 10045973		0.100	+/-0.0403	0.041	0.050	pCi/g					
Cobalt-60 10198400	U	-0.0106	+/-0.0253	0.0397		pCi/g					
Europium-152 14683239	U	-0.0291	+/-0.0698	0.112		pCi/g					
Europium-154 15585101	U	-0.0424	+/-0.0759	0.122		pCi/g					
Manganese-54 13966319	U	0.000508	+/-0.0236	0.0414		pCi/g					
Potassium-40 13966002		22.8	+/-1.83	0.308		pCi/g					
Sodium-22 13966320	U	-0.0151	+/-0.027	0.0434		pCi/g					
Thorium-228 14274829		1.35	+/-0.120	0.0616		pCi/g					
Thorium-232 7440291		1.37	+/-0.222	0.142		pCi/g					
Uranium-235 15117961	U	0.0451	+/-0.147	0.255		pCi/g					
Uranium-238 7440611	U	0.531	+/-1.20	1.66		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0377	+/-0.0273	0.0434	0.050	pCi/g		JXR1 09/01/09	0941	897053	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	0.315	+/-0.526	0.893	1.00	pCi/g		KXX2 08/28/09	0503	897064	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID: ISWC0101RadS001
Sample ID: 235959006
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	08/25/09	1420	897019			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			73.3	(25%–125%)

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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID:	ISWC0102RadS001	Project:	SSFL00153
Sample ID:	235959007	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	24-AUG-09 11:55		
Receive Date:	25-AUG-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0369	+/-0.0658	0.111		pCi/g		MXR	108/26/09	1858	897110	1
Cesium-134 13967709	UI	0.00	+/-0.041	0.0566		pCi/g						
Cesium-137 10045973		0.196	+/-0.0415	0.0418	0.050	pCi/g						
Cobalt-60 10198400	U	-0.00694	+/-0.0231	0.037		pCi/g						
Europium-152 14683239	U	-0.0468	+/-0.058	0.0942		pCi/g						
Europium-154 15585101	U	0.0132	+/-0.0707	0.123		pCi/g						
Manganese-54 13966319	U	0.0125	+/-0.0231	0.0391		pCi/g						
Potassium-40 13966002		23.7	+/-2.23	0.284		pCi/g						
Sodium-22 13966320	U	0.00277	+/-0.0253	0.0436		pCi/g						
Thorium-228 14274829		1.44	+/-0.151	0.0554		pCi/g						
Thorium-232 7440291		1.39	+/-0.230	0.136		pCi/g						
Uranium-235 15117961	U	0.0452	+/-0.124	0.209		pCi/g						
Uranium-238 7440611		1.08	+/-0.780	0.942		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.0216	+/-0.0223	0.0366	0.050	pCi/g		JXR	108/29/09	1638	897053	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.634	+/-0.542	0.900	1.00	pCi/g		KXX	208/28/09	0817	897064	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID: ISWC0102RadS001
Sample ID: 235959007
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	08/25/09	1420	897019			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			76.5	(25%–125%)

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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID: ISWC0103RadS001
Sample ID: 235959008
Matrix: Soil
Collect Date: 24-AUG-09 12:09
Receive Date: 25-AUG-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0255	+/-0.0421	0.0704		pCi/g		MXR1	08/26/09	1858	897110	1
Cesium-134 13967709	UI	0.00	+/-0.0345	0.0557		pCi/g						
Cesium-137 10045973		0.128	+/-0.0381	0.0448	0.050	pCi/g						
Cobalt-60 10198400	U	-0.0252	+/-0.0286	0.0437		pCi/g						
Europium-152 14683239	U	-0.039	+/-0.0889	0.104		pCi/g						
Europium-154 15585101	U	-0.000852	+/-0.0848	0.142		pCi/g						
Manganese-54 13966319	U	0.0031	+/-0.026	0.0454		pCi/g						
Potassium-40 13966002		23.9	+/-1.85	0.312		pCi/g						
Sodium-22 13966320	U	0.00126	+/-0.0301	0.0504		pCi/g						
Thorium-228 14274829		1.35	+/-0.160	0.0623		pCi/g						
Thorium-232 7440291		1.31	+/-0.261	0.153		pCi/g						
Uranium-235 15117961	U	0.0557	+/-0.139	0.240		pCi/g						
Uranium-238 7440611	U	0.671	+/-0.561	0.682		pCi/g						
Rad Gas Flow Proportional Counting												
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>												
Strontium-90 10098972	U	0.00657	+/-0.0234	0.0431	0.050	pCi/g		JXR1	08/29/09	1638	897053	2
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Solid "As Received"</i>												
Tritium 10028-17-8	U	0.572	+/-0.541	0.902	1.00	pCi/g		KXX2	08/28/09	1020	897064	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
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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 HV Waste Characterization**

Report Date: September 1, 2009

Client Sample ID: ISWC0103RadS001
Sample ID: 235959008
Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Dry Soil Prep	Dry Soil Prep	GL–RAD–A–021			MXM5	08/25/09	1420	897019			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			74.4	(25%–125%)

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

QC Summary

Report Date: September 1, 2009

Page 1 of 4

MECx, LLC
3061 West 92nd Ave
#10-D
Westminster, Colorado

Contact: Ms. Kim Schultz

Workorder: 235959

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	897110										
QC1201910222	235959008	DUP									
Americium-241	U	0.0255	U	0.053	pCi/g	70.1		N/A	MXR1	08/26/09	18:59
		+/-0.0421		+/-0.105							
Cesium-134	UI	0.00	UI	0.00	pCi/g	12.7		N/A			
		+/-0.0345		+/-0.030							
Cesium-137		0.128		0.0978	pCi/g	26.9		(0% - 100%)			
		+/-0.0381		+/-0.0304							
Cobalt-60	U	-0.0252	U	-0.0186	pCi/g	29.9		N/A			
		+/-0.0286		+/-0.0182							
Europium-152	U	-0.039	U	-0.0252	pCi/g	43.2		N/A			
		+/-0.0889		+/-0.0472							
Europium-154	U	-0.000852	U	0.0572	pCi/g	206		N/A			
		+/-0.0848		+/-0.0588							
Manganese-54	U	0.0031	U	0.0203	pCi/g	147		N/A			
		+/-0.026		+/-0.018							
Potassium-40		23.9		23.8	pCi/g	0.503		(0% - 20%)			
		+/-1.85		+/-1.96							
Sodium-22	U	0.00126	U	0.013	pCi/g	165		N/A			
		+/-0.0301		+/-0.0212							
Thorium-228		1.35		1.27	pCi/g	5.88		(0% - 20%)			
		+/-0.160		+/-0.105							
Thorium-232		1.31		1.33	pCi/g	1.21		(0% - 20%)			
		+/-0.261		+/-0.225							
Uranium-235	U	0.0557	U	0.101	pCi/g	58.2		N/A			
		+/-0.139		+/-0.115							
Uranium-238	U	0.671	U	1.12	pCi/g	49.8		N/A			
		+/-0.561		+/-1.17							
QC1201910223	LCS										
Americium-241	15.9			13.8	pCi/g		86.6	(75%-125%)		08/26/09	19:12
				+/-1.37							
Cesium-134			U	0.00509	pCi/g						
				+/-0.113							
Cesium-137	5.62			6.08	pCi/g		108	(75%-125%)			
				+/-0.554							
Cobalt-60	6.79			6.55	pCi/g		96.5	(75%-125%)			
				+/-0.540							
Europium-152			U	-0.0809	pCi/g						
				+/-0.181							
Europium-154			U	-0.0543	pCi/g						
				+/-0.162							

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QC Summary

Workorder: 235959

Page 2 of 4

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	897110										
Manganese-54			U	0.0674	pCi/g						
				+/-0.0829							
Potassium-40			U	0.235	pCi/g				MXR1	08/26/09	19:12
				+/-0.672							
Sodium-22			U	-0.0183	pCi/g						
				+/-0.0577							
Thorium-228				0.828	pCi/g						
				+/-0.190							
Thorium-232				1.39	pCi/g						
				+/-0.687							
Uranium-235			U	-0.0763	pCi/g						
				+/-0.293							
Uranium-238			U	0.0573	pCi/g						
				+/-1.02							
QC1201910221	MB										
Americium-241			U	-0.00248	pCi/g					08/26/09	18:59
				+/-0.0202							
Cesium-134			U	-0.000419	pCi/g						
				+/-0.0224							
Cesium-137			U	0.000819	pCi/g						
				+/-0.0184							
Cobalt-60			U	0.00535	pCi/g						
				+/-0.0196							
Europium-152			U	-0.0132	pCi/g						
				+/-0.0423							
Europium-154			U	-0.0275	pCi/g						
				+/-0.0561							
Manganese-54			U	0.00584	pCi/g						
				+/-0.0185							
Potassium-40			U	0.0959	pCi/g						
				+/-0.227							
Sodium-22			U	-0.00961	pCi/g						
				+/-0.0199							
Thorium-228			U	0.032	pCi/g						
				+/-0.040							
Thorium-232			U	-0.029	pCi/g						
				+/-0.0888							
Uranium-235			U	0.0641	pCi/g						
				+/-0.115							
Uranium-238			U	0.142	pCi/g						
				+/-0.471							
Rad Gas Flow											
Batch	897053										
QC1201910092	235959005	DUP									
Strontium-90	U	-0.000186	U	-0.000309	pCi/g	0.00		N/A	JXR1	08/29/09	16:37

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QC Summary

Workorder: 235959

Page 3 of 4

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	897053										
QC1201910094	LCS			+/-0.0228							
Strontium-90	1.94			+/-0.019			115	(75%-125%)	JXR1	08/28/09	22:27
QC1201910091	MB										
Strontium-90			U	-0.00149	pCi/g					08/29/09	16:37
				+/-0.0181							
QC1201910093	235959005	MS									
Strontium-90	1.94	U		-0.000186	pCi/g		82.9	(75%-125%)		08/28/09	22:27
				+/-0.0228							
				+/-0.116							
Rad Liquid Scintillation											
Batch	897064										
QC1201910119	235959001	DUP									
Tritium		U		0.468	pCi/g	0.00			N/A	KXX2	08/28/09 14:27
				+/-0.534							
QC1201910121	LCS										
Tritium	11.3				pCi/g		113	(75%-125%)		08/28/09	18:44
QC1201910118	MB										
Tritium		U		0.643	pCi/g					08/28/09	12:24
				+/-0.539							
QC1201910120	235959001	MS									
Tritium	11.3	U		0.468	pCi/g		78.3	(75%-125%)		08/28/09	18:27
				+/-0.534							
				+/-2.02							

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: 235959

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.



March 01, 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: 236116
SDG: 236116

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 27, 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: MWHAR20090826_01
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236116

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236116001

BASIS: As Received

DATE COLLECTED 26-AUG-09

CLIENT ID: EBQW2245

LEVEL: Low

DATE RECEIVED 27-AUG-09

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-66-6	Zinc	3	ug/L	U	3	10	10	1	MS	BAJ	08/28/09 17:10	090828-1	898026

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
898026	898025	SW846 3005A	50	mL	50	mL	08/28/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236116

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236116002

BASIS: Dry Weight

DATE COLLECTED 26-AUG-09

CLIENT ID: HZET0900S001

LEVEL: Low

DATE RECEIVED 27-AUG-09

MATRIX: SOIL

%SOLIDS: 94.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-66-6	Zinc	38.7	mg/kg		0.411	2.05	5	2	MS	BAJ	09/02/09 12:57	090902-2	898030

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
898030	898029	SW846 3050B	0.514	g	50	mL	08/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236116

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236116003

BASIS: Dry Weight

DATE COLLECTED 26-AUG-09

CLIENT ID: HZET0901S001

LEVEL: Low

DATE RECEIVED 27-AUG-09

MATRIX: SOIL

%SOLIDS: 83

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-66-6	Zinc	66.6	mg/kg		0.464	2.32	5	2	MS	BAJ	09/02/09 13:00	090902-2	898030

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
898030	898029	SW846 3050B	0.518	g	50	mL	08/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236116

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236116004

BASIS: Dry Weight

DATE COLLECTED 26-AUG-09

CLIENT ID: HZET0902S001

LEVEL: Low

DATE RECEIVED 27-AUG-09

MATRIX: SOIL

%SOLIDS: 98.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-66-6	Zinc	43.1	mg/kg		0.395	1.97	5	2	MS	BAJ	09/02/09 13:04	090902-2	898030

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
898030	898029	SW846 3050B	0.514	g	50	mL	08/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236116

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236116005

BASIS: Dry Weight

DATE COLLECTED 26-AUG-09

CLIENT ID: HZET0903S001

LEVEL: Low

DATE RECEIVED 27-AUG-09

MATRIX: SOIL

%SOLIDS: 90.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-66-6	Zinc	45.4	mg/kg		0.438	2.19	5	2	MS	BAJ	09/02/09 13:28	090902-2	898030

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
898030	898029	SW846 3050B	0.503	g	50	mL	08/28/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236116

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236116006

BASIS: Dry Weight

DATE COLLECTED 26-AUG-09

CLIENT ID: HZET0904S001

LEVEL: Low

DATE RECEIVED 27-AUG-09

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-66-6	Zinc	43.3	mg/kg		0.447	2.23	5	2	MS	BAJ	09/02/09 13:32	090902-2	898030

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
898030	898029	SW846 3050B	0.52	g	50	mL	08/28/09	FGA

Subcontract Data

Dioxins

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

Page 1 of 2

SDG Number: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045001	Date Collected: 08/26/2009 14:55	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 08/28/2009 09:50	%Moisture: 7.2
Client ID: HZET0900S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 08/31/2009 19:59	Analyst: HMP	Instrument: HRP763
Data File: b31aug09b-5		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 12.17 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.0988	pg/g	0.0988	0.443
40321-76-4	1,2,3,7,8-PeCDD	U	0.105	pg/g	0.105	2.21
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.121	pg/g	0.121	2.21
57653-85-7	1,2,3,6,7,8-HxCDD	U	0.140	pg/g	0.140	2.21
19408-74-3	1,2,3,7,8,9-HxCDD	U	0.137	pg/g	0.137	2.21
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	0.390	pg/g	0.246	2.21
3268-87-9	1,2,3,4,5,6,7,8-OCDD	J	2.09	pg/g	0.427	4.43
51207-31-9	2,3,7,8-TCDF	J	0.335	pg/g	0.114	0.443
57117-41-6	1,2,3,7,8-PeCDF	JK	0.129	pg/g	0.0785	2.21
57117-31-4	2,3,4,7,8-PeCDF	U	0.0875	pg/g	0.0875	2.21
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.076	pg/g	0.076	2.21
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.105	pg/g	0.0831	2.21
60851-34-5	2,3,4,6,7,8-HxCDF	U	0.088	pg/g	0.088	2.21
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.115	pg/g	0.115	2.21
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.149	pg/g	0.108	2.21
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.167	pg/g	0.167	2.21
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	0.358	pg/g	0.358	4.43
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	0.0988	pg/g	0.0988	0.443
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	0.105	pg/g	0.105	2.21
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	0.121	pg/g	0.121	2.21
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	0.749	pg/g	0.246	2.21
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs		0.792	pg/g	0.114	0.443
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.216	pg/g	0.0551	2.21
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.220	pg/g	0.076	2.21
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.149	pg/g	0.108	2.21
	TEQ WHO2005 ND=0 with EMPCs		0.0538	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.204	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		164	177	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDD		145	177	pg/g	82	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		162	177	pg/g	91	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		152	177	pg/g	86	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		149	177	pg/g	84	(23%-140%)
13C-OCDD		284	354	pg/g	80	(17%-157%)
13C-2,3,7,8-TCDF		162	177	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDF		153	177	pg/g	87	(24%-185%)
13C-2,3,4,7,8-PeCDF		150	177	pg/g	84	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		174	177	pg/g	98	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		149	177	pg/g	84	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		158	177	pg/g	89	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		160	177	pg/g	90	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		141	177	pg/g	79	(28%-143%)

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

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SDG Number: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045001	Date Collected: 08/26/2009 14:55	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 08/28/2009 09:50	%Moisture: 7.2
Client ID: HZET0900S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 08/31/2009 19:59	Analyst: HMP	Instrument: HRP763
Data File: b31aug09b-5		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	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			157	177	pg/g	89
37Cl-2,3,7,8-TCDD			16.4	17.7	pg/g	92
						(26%-138%)
						(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**

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SDG Number: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045001	Date Collected: 08/26/2009 14:55	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 08/28/2009 09:50	%Moisture: 7.2
Client ID: HZET0900S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 09/01/2009 10:41	Analyst: HMP	Instrument: HRP763
Data File: b01sep09a-4		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 12.17 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.384	pg/g	0.103	0.443

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: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045002	Date Collected: 08/26/2009 15:30	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 08/28/2009 09:50	%Moisture: 16.8
Client ID: HZET0901S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 08/31/2009 20:47	Analyst: HMP	Instrument: HRP763
Data File: b31aug09b-6		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 12.33 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.110	pg/g	0.110	0.487
40321-76-4	1,2,3,7,8-PeCDD	U	0.0904	pg/g	0.0904	2.44
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.121	pg/g	0.121	2.44
57653-85-7	1,2,3,6,7,8-HxCDD	U	0.140	pg/g	0.140	2.44
19408-74-3	1,2,3,7,8,9-HxCDD	U	0.137	pg/g	0.137	2.44
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	0.197	pg/g	0.197	2.44
3268-87-9	1,2,3,4,5,6,7,8-OCDD	U	0.370	pg/g	0.370	4.87
51207-31-9	2,3,7,8-TCDF	J	0.351	pg/g	0.112	0.487
57117-41-6	1,2,3,7,8-PeCDF	U	0.0727	pg/g	0.0727	2.44
57117-31-4	2,3,4,7,8-PeCDF	U	0.0803	pg/g	0.0803	2.44
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.0823	pg/g	0.0823	2.44
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.0869	pg/g	0.0869	2.44
60851-34-5	2,3,4,6,7,8-HxCDF	U	0.0928	pg/g	0.0928	2.44
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.120	pg/g	0.120	2.44
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	0.156	pg/g	0.118	2.44
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.180	pg/g	0.180	2.44
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	0.339	pg/g	0.339	4.87
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	0.110	pg/g	0.110	0.487
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	0.0904	pg/g	0.0904	2.44
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	0.121	pg/g	0.121	2.44
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	U	0.197	pg/g	0.197	2.44
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs		0.807	pg/g	0.112	0.487
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	0.0573	pg/g	0.0573	2.44
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.146	pg/g	0.0823	2.44
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.156	pg/g	0.118	2.44
	TEQ WHO2005 ND=0 with EMPCs		0.0366	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.191	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		177	195	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDD		170	195	pg/g	87	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		180	195	pg/g	92	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		170	195	pg/g	87	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		159	195	pg/g	82	(23%-140%)
13C-OCDD		292	390	pg/g	75	(17%-157%)
13C-2,3,7,8-TCDF		177	195	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDF		181	195	pg/g	93	(24%-185%)
13C-2,3,4,7,8-PeCDF		173	195	pg/g	89	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		181	195	pg/g	93	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		159	195	pg/g	81	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		174	195	pg/g	89	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		178	195	pg/g	92	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		152	195	pg/g	78	(28%-143%)

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

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SDG Number: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045002	Date Collected: 08/26/2009 15:30	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 08/28/2009 09:50	%Moisture: 16.8
Client ID: HZET0901S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 08/31/2009 20:47	Analyst: HMP	Instrument: HRP763
Data File: b31aug09b-6		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 12.33 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			167	195	pg/g	85 (26%-138%)
37Cl-2,3,7,8-TCDD			18.0	19.5	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**

Page 1 of 1

SDG Number: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045002	Date Collected: 08/26/2009 15:30	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 08/28/2009 09:50	%Moisture: 16.8
Client ID: HZET0901S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 09/01/2009 11:03	Analyst: HMP	Instrument: HRP763
Data File: b01sep09a-5		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 12.33 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	JK	0.357	pg/g	0.117	0.487

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: 1045
Lab Sample ID: 1045003
Client Sample: 1613 Soil (MS/D)
Client ID: HZET0902S001
Batch ID: 1452
Run Date: 08/31/2009 21:35
Data File: b31aug09b-7
Prep Batch: 1392
Prep Date: 30-AUG-09 14:00:00

Client: BOEN001
Date Collected: 08/26/2009 14:25
Date Received: 08/28/2009 09:50
Method: EPA Method 1613B
Analyst: HMP
Prep Method: SW846 3540C
Aliquot: 12.94 g

Project: BOEN00309
Matrix: Soil
%Moisture: 16.1
Prep Basis: Dry Weight
Instrument: HRP763
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.108	pg/g	0.108	0.461
40321-76-4	1,2,3,7,8-PeCDD	U	0.0964	pg/g	0.0964	2.30
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.136	pg/g	0.136	2.30
57653-85-7	1,2,3,6,7,8-HxCDD	U	0.153	pg/g	0.153	2.30
19408-74-3	1,2,3,7,8,9-HxCDD	U	0.151	pg/g	0.151	2.30
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	0.212	pg/g	0.201	2.30
3268-87-9	1,2,3,4,5,6,7,8-OCDD	J	0.802	pg/g	0.359	4.61
51207-31-9	2,3,7,8-TCDF	JK	0.326	pg/g	0.135	0.461
57117-41-6	1,2,3,7,8-PeCDF	U	0.0756	pg/g	0.0756	2.30
57117-31-4	2,3,4,7,8-PeCDF	U	0.082	pg/g	0.082	2.30
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.0765	pg/g	0.0765	2.30
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.0798	pg/g	0.0798	2.30
60851-34-5	2,3,4,6,7,8-HxCDF	U	0.0853	pg/g	0.0853	2.30
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.117	pg/g	0.117	2.30
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	0.107	pg/g	0.107	2.30
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.158	pg/g	0.158	2.30
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	0.363	pg/g	0.363	4.61
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	0.108	pg/g	0.108	0.461
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	0.0964	pg/g	0.0964	2.30
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	0.136	pg/g	0.136	2.30
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	0.415	pg/g	0.201	2.30
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs		0.794	pg/g	0.135	0.461
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	U	0.0586	pg/g	0.0586	2.30
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	0.0765	pg/g	0.0765	2.30
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	0.107	pg/g	0.107	2.30
	TEQ WHO2005 ND=0 with EMPCs		0.035	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.192	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		172	184	pg/g	93	(25%-164%)
13C-1,2,3,7,8-PeCDD		155	184	pg/g	84	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		168	184	pg/g	91	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		162	184	pg/g	88	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		162	184	pg/g	88	(23%-140%)
13C-OCDD		292	369	pg/g	79	(17%-157%)
13C-2,3,7,8-TCDF		166	184	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDF		160	184	pg/g	87	(24%-185%)
13C-2,3,4,7,8-PeCDF		159	184	pg/g	86	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		178	184	pg/g	96	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		157	184	pg/g	85	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		166	184	pg/g	90	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		164	184	pg/g	89	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		153	184	pg/g	83	(28%-143%)

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

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SDG Number: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045003	Date Collected: 08/26/2009 14:25	Matrix: Soil
Client Sample: 1613 Soil (MS/D)	Date Received: 08/28/2009 09:50	%Moisture: 16.1
Client ID: HZET0902S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 08/31/2009 21:35	Analyst: HMP	Instrument: HRP763
Data File: b31aug09b-7		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 12.94 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			168	184	pg/g	91 (26%-138%)
37Cl-2,3,7,8-TCDD			17.1	18.4	pg/g	93 (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: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045003	Date Collected: 08/26/2009 14:25	Matrix: Soil
Client Sample: 1613 Soil (MS/D)	Date Received: 08/28/2009 09:50	%Moisture: 16.1
Client ID: HZET0902S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 09/01/2009 11:25	Analyst: HMP	Instrument: HRP763
Data File: b01sep09a-6		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 12.94 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.361	pg/g	0.132	0.461

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: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045004	Date Collected: 08/26/2009 14:40	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 08/28/2009 09:50	%Moisture: 4.9
Client ID: HZET0903S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 08/31/2009 23:58	Analyst: HMP	Instrument: HRP763
Data File: b31aug09b-10		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 11.33 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.0969	pg/g	0.0969	0.464
40321-76-4	1,2,3,7,8-PeCDD	JK	0.130	pg/g	0.109	2.32
39227-28-6	1,2,3,4,7,8-HxCDD	J	0.169	pg/g	0.151	2.32
57653-85-7	1,2,3,6,7,8-HxCDD	JK	0.232	pg/g	0.159	2.32
19408-74-3	1,2,3,7,8,9-HxCDD	JK	0.230	pg/g	0.163	2.32
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	0.388	pg/g	0.179	2.32
3268-87-9	1,2,3,4,5,6,7,8-OCDD	J	1.38	pg/g	0.327	4.64
51207-31-9	2,3,7,8-TCDF	J	0.267	pg/g	0.123	0.464
57117-41-6	1,2,3,7,8-PeCDF	J	0.160	pg/g	0.0828	2.32
57117-31-4	2,3,4,7,8-PeCDF	J	0.154	pg/g	0.0852	2.32
70648-26-9	1,2,3,4,7,8-HxCDF	JK	0.132	pg/g	0.0997	2.32
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.167	pg/g	0.100	2.32
60851-34-5	2,3,4,6,7,8-HxCDF	JK	0.156	pg/g	0.105	2.32
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.180	pg/g	0.129	2.32
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.221	pg/g	0.119	2.32
55673-89-7	1,2,3,4,7,8,9-HpCDF	JK	0.199	pg/g	0.182	2.32
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	0.672	pg/g	0.330	4.64
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	0.0969	pg/g	0.0969	0.464
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.130	pg/g	0.109	2.32
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	0.631	pg/g	0.144	2.32
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	0.598	pg/g	0.179	2.32
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs		0.657	pg/g	0.123	0.464
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.314	pg/g	0.0551	2.32
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.635	pg/g	0.0997	2.32
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.419	pg/g	0.119	2.32
	TEQ WHO2005 ND=0 with EMPCs		0.343	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.391	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		165	186	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDD		148	186	pg/g	80	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		172	186	pg/g	93	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		160	186	pg/g	86	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		175	186	pg/g	94	(23%-140%)
13C-OCDD		325	371	pg/g	87	(17%-157%)
13C-2,3,7,8-TCDF		166	186	pg/g	90	(25%-164%)
13C-1,2,3,7,8-PeCDF		156	186	pg/g	84	(24%-185%)
13C-2,3,4,7,8-PeCDF		154	186	pg/g	83	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		173	186	pg/g	93	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		155	186	pg/g	83	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		165	186	pg/g	89	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		177	186	pg/g	96	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		169	186	pg/g	91	(28%-143%)

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

Page 2 of 2

SDG Number: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045004	Date Collected: 08/26/2009 14:40	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 08/28/2009 09:50	%Moisture: 4.9
Client ID: HZET0903S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 08/31/2009 23:58	Analyst: HMP	Instrument: HRP763
Data File: b31aug09b-10		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 11.33 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			184	186	pg/g	99
37Cl-2,3,7,8-TCDD			16.5	18.6	pg/g	89

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: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045004	Date Collected: 08/26/2009 14:40	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 08/28/2009 09:50	%Moisture: 4.9
Client ID: HZET0903S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 09/01/2009 12:29	Analyst: HMP	Instrument: HRP763
Data File: b01sep09a-9		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 11.33 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.284	pg/g	0.131	0.464

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: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045005	Date Collected: 08/26/2009 15:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 08/28/2009 09:50	%Moisture: 18.7
Client ID: HZET0904S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 09/01/2009 00:46	Analyst: HMP	Instrument: HRP763
Data File: b31aug09b-11		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 13.07 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.133	pg/g	0.133	0.471
40321-76-4	1,2,3,7,8-PeCDD	JK	0.222	pg/g	0.126	2.35
39227-28-6	1,2,3,4,7,8-HxCDD	JK	0.614	pg/g	0.161	2.35
57653-85-7	1,2,3,6,7,8-HxCDD	U	0.178	pg/g	0.178	2.35
19408-74-3	1,2,3,7,8,9-HxCDD	J	0.772	pg/g	0.178	2.35
35822-46-9	1,2,3,4,6,7,8-HpCDD		3.94	pg/g	0.226	2.35
3268-87-9	1,2,3,4,5,6,7,8-OCDD		23.0	pg/g	0.337	4.71
51207-31-9	2,3,7,8-TCDF		0.755	pg/g	0.281	0.471
57117-41-6	1,2,3,7,8-PeCDF	J	0.755	pg/g	0.155	2.35
57117-31-4	2,3,4,7,8-PeCDF	J	0.450	pg/g	0.160	2.35
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.425	pg/g	0.110	2.35
57117-44-9	1,2,3,6,7,8-HxCDF	J	0.533	pg/g	0.127	2.35
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.250	pg/g	0.133	2.35
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.180	pg/g	0.180	2.35
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	1.13	pg/g	0.144	2.35
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.211	pg/g	0.211	2.35
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	1.70	pg/g	0.346	4.71
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs		0.689	pg/g	0.133	0.471
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs		2.74	pg/g	0.126	2.35
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		4.26	pg/g	0.158	2.35
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		10.3	pg/g	0.226	2.35
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs		7.75	pg/g	0.281	0.471
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		6.86	pg/g	0.0574	2.35
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		3.68	pg/g	0.110	2.35
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	1.79	pg/g	0.144	2.35
	TEQ WHO2005 ND=0 with EMPCs		0.773	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.858	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		179	188	pg/g	95	(25%-164%)
13C-1,2,3,7,8-PeCDD		158	188	pg/g	84	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		181	188	pg/g	96	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		168	188	pg/g	89	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		183	188	pg/g	97	(23%-140%)
13C-OCDD		340	377	pg/g	90	(17%-157%)
13C-2,3,7,8-TCDF		174	188	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDF		171	188	pg/g	91	(24%-185%)
13C-2,3,4,7,8-PeCDF		165	188	pg/g	88	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		211	188	pg/g	112	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		177	188	pg/g	94	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		179	188	pg/g	95	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		181	188	pg/g	96	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		176	188	pg/g	94	(28%-143%)

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

Page 2 of 2

SDG Number: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045005	Date Collected: 08/26/2009 15:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 08/28/2009 09:50	%Moisture: 18.7
Client ID: HZET0904S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 09/01/2009 00:46	Analyst: HMP	Instrument: HRP763
Data File: b31aug09b-11		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 13.07 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			191	188	pg/g	101
37Cl-2,3,7,8-TCDD			17.4	18.8	pg/g	92
						(26%-138%)
						(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: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045005	Date Collected: 08/26/2009 15:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 08/28/2009 09:50	%Moisture: 18.7
Client ID: HZET0904S001		Prep Basis: Dry Weight
Batch ID: 1452	Method: EPA Method 1613B	
Run Date: 09/01/2009 12:51	Analyst: HMP	Instrument: HRP763
Data File: b01sep09a-10		Dilution: 1
Prep Batch: 1392	Prep Method: SW846 3540C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 13.07 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF		0.680	pg/g	0.159	0.471

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

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: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045006	Date Collected: 08/26/2009 15:48	Matrix: Water
Client Sample: 1613 water	Date Received: 08/28/2009 09:50	
Client ID: EBQW2245		Prep Basis: As Received
Batch ID: 1453	Method: EPA Method 1613B	
Run Date: 09/01/2009 05:41	Analyst: HMP	Instrument: HRP763
Data File: b31aug09b_2-5		Dilution: 1
Prep Batch: 1393	Prep Method: SW846 3520C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 1052 mL	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.32	pg/L	1.32	4.75
40321-76-4	1,2,3,7,8-PeCDD	U	1.28	pg/L	1.28	23.8
39227-28-6	1,2,3,4,7,8-HxCDD	U	1.65	pg/L	1.65	23.8
57653-85-7	1,2,3,6,7,8-HxCDD	U	1.77	pg/L	1.77	23.8
19408-74-3	1,2,3,7,8,9-HxCDD	U	1.80	pg/L	1.80	23.8
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	2.60	pg/L	2.60	23.8
3268-87-9	1,2,3,4,5,6,7,8-OCDD	U	4.83	pg/L	4.83	47.5
51207-31-9	2,3,7,8-TCDF	U	1.63	pg/L	1.63	4.75
57117-41-6	1,2,3,7,8-PeCDF	U	0.821	pg/L	0.821	23.8
57117-31-4	2,3,4,7,8-PeCDF	U	1.05	pg/L	1.05	23.8
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.06	pg/L	1.06	23.8
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.13	pg/L	1.13	23.8
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.13	pg/L	1.13	23.8
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.47	pg/L	1.47	23.8
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.39	pg/L	1.39	23.8
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.32	pg/L	2.32	23.8
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	5.30	pg/L	5.30	47.5
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	1.32	pg/L	1.32	4.75
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	1.28	pg/L	1.28	23.8
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	1.65	pg/L	1.65	23.8
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	U	2.60	pg/L	2.60	23.8
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	U	1.63	pg/L	1.63	4.75
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	1.05	pg/L	0.741	23.8
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	U	1.06	pg/L	1.06	23.8
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	U	1.39	pg/L	1.39	23.8
	TEQ WHO2005 ND=0 with EMPCs		0.314	pg/L		
	TEQ WHO2005 ND=0.5 with EMPCs		2.24	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1550	1900	pg/L	82	(25%-164%)
13C-1,2,3,7,8-PeCDD		1590	1900	pg/L	84	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1590	1900	pg/L	84	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1540	1900	pg/L	81	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1520	1900	pg/L	80	(23%-140%)
13C-OCDD		2560	3800	pg/L	67	(17%-157%)
13C-2,3,7,8-TCDF		1510	1900	pg/L	79	(25%-164%)
13C-1,2,3,7,8-PeCDF		1610	1900	pg/L	85	(24%-185%)
13C-2,3,4,7,8-PeCDF		1640	1900	pg/L	86	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1630	1900	pg/L	86	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1440	1900	pg/L	76	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1560	1900	pg/L	82	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1600	1900	pg/L	84	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1500	1900	pg/L	79	(28%-143%)

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

Page 2 of 2

SDG Number: 1045	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1045006	Date Collected: 08/26/2009 15:48	Matrix: Water
Client Sample: 1613 water	Date Received: 08/28/2009 09:50	
Client ID: EBQW2245		Prep Basis: As Received
Batch ID: 1453	Method: EPA Method 1613B	
Run Date: 09/01/2009 05:41	Analyst: HMP	Instrument: HRP763
Data File: b31aug09b_2-5		Dilution: 1
Prep Batch: 1393	Prep Method: SW846 3520C	
Prep Date: 30-AUG-09 14:00:00	Aliquot: 1052 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			1580	1900	pg/L	83 (26%-138%)
37Cl-2,3,7,8-TCDD			153	190	pg/L	81 (35%-197%)

Comments:**J** Value is estimated**U** Analyte was analyzed for , but not detected above the specified detection limit.



December 08, 2009

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

Re: SSFL
Project Number: 1006982.05461
Project Name: ISRA Waste Characterization EL
Work Order: 236227
SDG: 236227

Dear Ms. Schultz,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 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: 1006982.05461
Chain of Custody:
Enclosures

Page: 1 of 1
 Project #: 1000982.05461
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: _____

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number: 236227

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: The Boeing Company - SSFL Phone #: _____
 Sample Analysis Requested (5) (Fill in the number of containers for each test)

Project/Site Name: ISRA Waste Characterization / ELV Fax #: _____
 Address: 5800 Woolsey Canyon Road, Canoga Park CA 91304

Collected by: A. Ruotolo Send Results To: Sarah Von Raesfeld, Alex Fishl, Phil Rutheford
 Should this sample be considered: _____
 Total number of containers: _____
 Gamma Spec by 901.1: _____
 <-- Preservative Type (6) _____
 Comments: Note: extra sample is required for sample specific QC

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military (hhmm))	QC Code (3)	Field Filtered (6)	Sample Matrix (6)	Radioactive	TSCA Regulated	Total number of containers	Gamma Spec by 901.1	Preservative Type (6)	Comments
ISNC0052AS001	8-28-09	13:02	N	N	SO			2	X		
ISNC0053AS001		13:10							X		
ISNC0054AS001		13:15							X		
ISNC0055AS001		13:20							X		
ISNC0058AS001		13:27							X		
ISNC0062AS001		13:36							X		
ISNC0065AS001		13:50							X		
ISNC0066AS001		14:00	↓	↓	↓				X		
	8-28-09										

TAT Requested: Normal: _____ Rush: 10 DAYS Specify: _____ (Subject to Surcharge) Fax Results: Yes / No Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Gamma Spec should include Na-22, K-40, Mn-54, Co-60, Cs-134, Cs-137, Eu-152, Eu-154, Th-228, Th-232, U-235, U-238 and Am-241.
 Sample Collection Time Zone: Eastern Pacific Central Mountain

Chain of Custody Signatures						Sample Shipping and Delivery Details	
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time		
<u>AR</u>	8/28/09	15:10	<u>Jackie Trudell</u>	8-29-09	0850	GEL PM: Jackie Trudell	
						Method of Shipment: <u>FEXEX</u>	Date Shipped: <u>8-28-09</u>
						Airbill #:	
						Airbill #:	

- Chain of Custody Number = Client Determined
- QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
- Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
- Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=N
- Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
- Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only
 Custody Seal Intact?
 YES NO
 Cooler Temp:
2 C



SAMPLE RECEIPT & REVIEW FORM

Client: <u>SSFL</u>		SDG/ARCOC/Work Order: <u>236227</u>	
Received By: <u>MK</u>		Date Received: <u>8-29-09</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*: <u>49M 20</u>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	
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>dc</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: <u>2 per ID</u>
12	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			

Comments:

FX 7978 9050 9356

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 HV Waste Characterization**

Report Date: September 3, 2009

Client Sample ID: ISWC0052ARadS001
Sample ID: 236227001
Matrix: Soil
Collect Date: 28–AUG–09 13:02
Receive Date: 29–AUG–09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium–241 14596–10–2	U	0.0219	+/-0.0995	0.176		pCi/g				MXR108/31/09	1305	898568 1
Cesium–134 13967709	UI	0.00	+/-0.0337	0.0539		pCi/g						
Cesium–137 10045973		0.514	+/-0.059	0.0369	0.050	pCi/g						
Cobalt–60 10198400	U	0.000239	+/-0.023	0.0392		pCi/g						
Europium–152 14683239	U	-0.0524	+/-0.0586	0.0928		pCi/g						
Europium–154 15585101	U	0.0494	+/-0.0704	0.126		pCi/g						
Manganese–54 13966319	U	0.000987	+/-0.0218	0.0377		pCi/g						
Potassium–40 13966002		21.8	+/-1.85	0.307		pCi/g						
Sodium–22 13966320	U	0.0171	+/-0.025	0.0448		pCi/g						
Thorium–228 14274829		1.09	+/-0.116	0.0537		pCi/g						
Thorium–232 7440291		1.02	+/-0.221	0.127		pCi/g						
Uranium–235 15117961	U	0.0994	+/-0.144	0.200		pCi/g						
Uranium–238 7440611		1.57	+/-1.25	1.36		pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	08/29/09	1003	898349

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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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 HV Waste Characterization**

Report Date: September 3, 2009

Client Sample ID: ISWC0053ARadS001
Sample ID: 236227002
Matrix: Soil
Collect Date: 28–AUG–09 13:10
Receive Date: 29–AUG–09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium–241 14596–10–2	U	0.0644	+/-0.0592	0.104		pCi/g		MXR108/31/09	1322	898568	1
Cesium–134 13967709	U	0.0473	+/-0.0314	0.0505		pCi/g					
Cesium–137 10045973		0.444	+/-0.0565	0.0403	0.050	pCi/g					
Cobalt–60 10198400	U	0.000416	+/-0.020	0.0343		pCi/g					
Europium–152 14683239	U	0.00124	+/-0.0586	0.0912		pCi/g					
Europium–154 15585101	U	0.0438	+/-0.0699	0.125		pCi/g					
Manganese–54 13966319	U	-0.00495	+/-0.0192	0.0325		pCi/g					
Potassium–40 13966002		22.3	+/-2.11	0.294		pCi/g					
Sodium–22 13966320	U	0.0135	+/-0.0249	0.0443		pCi/g					
Thorium–228 14274829		1.17	+/-0.125	0.0511		pCi/g					
Thorium–232 7440291		1.16	+/-0.211	0.122		pCi/g					
Uranium–235 15117961	U	-0.00934	+/-0.115	0.195		pCi/g					
Uranium–238 7440611	U	0.808	+/-0.790	0.878		pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	08/29/09	1003	898349

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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Company : MECx, LLC
Address : 3061 West 92nd Ave
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 Westminster, Colorado 80031
Contact : Ms. Kim Schultz
Project : **ISRA HV Waste Characterization**

Report Date: September 3, 2009

Client Sample ID: ISWC0054ARadS001
Sample ID: 236227003
Matrix: Soil
Collect Date: 28–AUG–09 13:15
Receive Date: 29–AUG–09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium–241 14596–10–2	U	–0.163	+/–0.164	0.302		pCi/g		MXR108/31/09	1322	898568	1	
Cesium–134 13967709	UI	0.00	+/–0.0291	0.0563		pCi/g						
Cesium–137 10045973		0.659	+/–0.0707	0.0388	0.050	pCi/g						
Cobalt–60 10198400	U	0.0142	+/–0.0251	0.044		pCi/g						
Europium–152 14683239	U	–0.00786	+/–0.0939	0.115		pCi/g						
Europium–154 15585101	U	–0.0354	+/–0.0789	0.128		pCi/g						
Manganese–54 13966319	U	0.00912	+/–0.0223	0.0399		pCi/g						
Potassium–40 13966002		22.5	+/–1.99	0.337		pCi/g						
Sodium–22 13966320	U	–0.0122	+/–0.0281	0.0458		pCi/g						
Thorium–228 14274829		1.12	+/–0.115	0.0682		pCi/g						
Thorium–232 7440291		1.17	+/–0.215	0.120		pCi/g						
Uranium–235 15117961	U	0.068	+/–0.151	0.266		pCi/g						
Uranium–238 7440611	U	0.171	+/–1.26	2.31		pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	08/29/09	1003	898349

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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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 HV Waste Characterization**

Report Date: September 3, 2009

Client Sample ID: ISWC0055ARadS001
Sample ID: 236227004
Matrix: Soil
Collect Date: 28–AUG–09 13:20
Receive Date: 29–AUG–09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium–241 14596–10–2	U	0.115	+/-0.0961	0.162		pCi/g		MXR108/31/09	1329	898568	1
Cesium–134 13967709	UI	0.00	+/-0.0429	0.0563		pCi/g					
Cesium–137 10045973		0.276	+/-0.044	0.0403	0.050	pCi/g					
Cobalt–60 10198400	U	0.00275	+/-0.021	0.0365		pCi/g					
Europium–152 14683239	U	-0.0274	+/-0.0709	0.103		pCi/g					
Europium–154 15585101	U	0.0127	+/-0.0697	0.121		pCi/g					
Manganese–54 13966319	U	-0.0133	+/-0.0219	0.0358		pCi/g					
Potassium–40 13966002		24.0	+/-2.01	0.293		pCi/g					
Sodium–22 13966320	U	0.00468	+/-0.0248	0.0433		pCi/g					
Thorium–228 14274829		1.28	+/-0.112	0.0613		pCi/g					
Thorium–232 7440291		1.23	+/-0.219	0.125		pCi/g					
Uranium–235 15117961	U	0.0695	+/-0.132	0.230		pCi/g					
Uranium–238 7440611	U	1.28	+/-0.941	1.35		pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	08/29/09	1003	898349

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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Company : MECx, LLC
Address : 3061 West 92nd Ave
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Contact : Ms. Kim Schultz
Project : **ISRA HV Waste Characterization**

Report Date: September 3, 2009

Client Sample ID: ISWC0058ARadS001
Sample ID: 236227005
Matrix: Soil
Collect Date: 28–AUG–09 13:27
Receive Date: 29–AUG–09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium–241 14596–10–2	U	–0.0334	+/–0.102	0.186		pCi/g		MXR108/31/09	1424	898568	1
Cesium–134 13967709	U	0.0382	+/–0.0381	0.0521		pCi/g					
Cesium–137 10045973		0.196	+/–0.0475	0.0353	0.050	pCi/g					
Cobalt–60 10198400	U	–0.00467	+/–0.0227	0.0385		pCi/g					
Europium–152 14683239	U	–0.0298	+/–0.0595	0.0945		pCi/g					
Europium–154 15585101	U	0.0256	+/–0.0744	0.131		pCi/g					
Manganese–54 13966319	U	0.0195	+/–0.0217	0.0392		pCi/g					
Potassium–40 13966002		23.0	+/–2.18	0.298		pCi/g					
Sodium–22 13966320	U	0.00765	+/–0.0265	0.0466		pCi/g					
Thorium–228 14274829		1.29	+/–0.113	0.0566		pCi/g					
Thorium–232 7440291		1.18	+/–0.218	0.129		pCi/g					
Uranium–235 15117961	U	–0.0183	+/–0.131	0.219		pCi/g					
Uranium–238 7440611	U	0.411	+/–0.869	1.57		pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	08/29/09	1003	898349

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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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 HV Waste Characterization**

Report Date: September 3, 2009

Client Sample ID: ISWC0062ARadS001
Sample ID: 236227006
Matrix: Soil
Collect Date: 28-AUG-09 13:36
Receive Date: 29-AUG-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0215	+/-0.075	0.122		pCi/g		MXR108/31/09	1427	898568	1
Cesium-134 13967709	UI	0.00	+/-0.033	0.0484		pCi/g					
Cesium-137 10045973		0.335	+/-0.0468	0.039	0.050	pCi/g					
Cobalt-60 10198400	U	0.0248	+/-0.0214	0.0395		pCi/g					
Europium-152 14683239	U	-0.0167	+/-0.0755	0.091		pCi/g					
Europium-154 15585101	U	0.00596	+/-0.0671	0.115		pCi/g					
Manganese-54 13966319	U	0.0327	+/-0.0223	0.035		pCi/g					
Potassium-40 13966002		23.8	+/-1.96	0.318		pCi/g					
Sodium-22 13966320	U	0.00228	+/-0.0239	0.0409		pCi/g					
Thorium-228 14274829		1.21	+/-0.105	0.0509		pCi/g					
Thorium-232 7440291		1.16	+/-0.195	0.110		pCi/g					
Uranium-235 15117961	U	0.0801	+/-0.115	0.208		pCi/g					
Uranium-238 7440611		1.49	+/-0.833	1.06		pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	08/29/09	1003	898349

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

GEL LABORATORIES LLC

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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 HV Waste Characterization**

Report Date: September 3, 2009

Client Sample ID: ISWC0065ARadS001
Sample ID: 236227007
Matrix: Soil
Collect Date: 28-AUG-09 13:50
Receive Date: 29-AUG-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gamma Spec Analysis												
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>												
Americium-241 14596-10-2	U	0.0186	+/-0.0383	0.0633		pCi/g		MXR108/31/09	1428	898568	1	
Cesium-134 13967709	UI	0.00	+/-0.0489	0.0659		pCi/g						
Cesium-137 10045973	U	-0.0128	+/-0.0269	0.0414	0.050	pCi/g						
Cobalt-60 10198400	U	0.0286	+/-0.0275	0.0449		pCi/g						
Europium-152 14683239	U	0.00894	+/-0.0565	0.092		pCi/g						
Europium-154 15585101	U	0.0316	+/-0.0822	0.143		pCi/g						
Manganese-54 13966319	U	0.00361	+/-0.024	0.0427		pCi/g						
Potassium-40 13966002		21.2	+/-1.70	0.331		pCi/g						
Sodium-22 13966320	U	0.0101	+/-0.0291	0.0504		pCi/g						
Thorium-228 14274829		1.30	+/-0.130	0.0514		pCi/g						
Thorium-232 7440291		1.35	+/-0.264	0.140		pCi/g						
Uranium-235 15117961	U	0.0187	+/-0.114	0.206		pCi/g						
Uranium-238 7440611		0.846	+/-0.472	0.618		pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	08/29/09	1003	898349

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

GEL LABORATORIES LLC

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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 HV Waste Characterization**

Report Date: September 3, 2009

Client Sample ID: ISWC0066ARadS001
Sample ID: 236227008
Matrix: Soil
Collect Date: 28-AUG-09 14:00
Receive Date: 29-AUG-09
Collector: Client

Project: SSFL00153
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0665	+/-0.0985	0.170		pCi/g		MXR108/31/09	1429	898568	1
Cesium-134 13967709	UI	0.00	+/-0.0258	0.0425		pCi/g					
Cesium-137 10045973		0.172	+/-0.0319	0.0301	0.050	pCi/g					
Cobalt-60 10198400	U	-0.0072	+/-0.0167	0.0274		pCi/g					
Europium-152 14683239	U	-0.0708	+/-0.0512	0.0705		pCi/g					
Europium-154 15585101	U	0.0151	+/-0.0547	0.0944		pCi/g					
Manganese-54 13966319	U	-0.00837	+/-0.0167	0.0281		pCi/g					
Potassium-40 13966002		21.4	+/-1.76	0.218		pCi/g					
Sodium-22 13966320	U	0.00335	+/-0.0196	0.0337		pCi/g					
Thorium-228 14274829		1.19	+/-0.098	0.0445		pCi/g					
Thorium-232 7440291		1.23	+/-0.211	0.0975		pCi/g					
Uranium-235 15117961	U	0.00382	+/-0.111	0.187		pCi/g					
Uranium-238 7440611		1.59	+/-1.21	1.35		pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	08/29/09	1003	898349

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

GEL LABORATORIES LLC

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QC Summary

Report Date: September 3, 2009

Page 1 of 3

MECx, LLC
3061 West 92nd Ave
#10-D
Westminster, Colorado

Contact: Ms. Kim Schultz

Workorder: 236227

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	898568										
QC1201913791	236227001	DUP									
Americium-241	U	0.0219	U	0.00045	pCi/g	192		N/A	MXR1	08/31/09	19:40
		+/-0.0995		+/-0.0347							
Cesium-134	UI	0.00	U	0.0419	pCi/g	73.3		N/A			
		+/-0.0337		+/-0.0343							
Cesium-137		0.514		0.562	pCi/g	8.98		(0% - 20%)			
		+/-0.059		+/-0.0697							
Cobalt-60	U	0.000239	U	-0.0022	pCi/g	249		N/A			
		+/-0.023		+/-0.0272							
Europium-152	U	-0.0524	U	-0.0399	pCi/g	27.1		N/A			
		+/-0.0586		+/-0.0781							
Europium-154	U	0.0494	U	-0.0617	pCi/g	1810		N/A			
		+/-0.0704		+/-0.0877							
Manganese-54	U	0.000987	U	-0.0268	pCi/g	215		N/A			
		+/-0.0218		+/-0.0266							
Potassium-40		21.8		21.8	pCi/g	0.367		(0% - 20%)			
		+/-1.85		+/-1.68							
Sodium-22	U	0.0171	U	-0.0206	pCi/g	2150		N/A			
		+/-0.025		+/-0.0312							
Thorium-228		1.09		1.04	pCi/g	4.04		(0% - 20%)			
		+/-0.116		+/-0.113							
Thorium-232		1.02		1.31	pCi/g	24.8*		(0% - 20%)			
		+/-0.221		+/-0.234							
Uranium-235	U	0.0994		0.240	pCi/g	82.8		(0% - 100%)			
		+/-0.144		+/-0.200							
Uranium-238		1.57		0.896	pCi/g	54.5		(0% - 100%)			
		+/-1.25		+/-0.657							
QC1201913792	LCS										
Americium-241	15.9			14.4	pCi/g		90.3	(75%-125%)		09/01/09	06:13
				+/-1.30							
Cesium-134			U	0.133	pCi/g						
				+/-0.110							
Cesium-137	5.62			6.05	pCi/g		108	(75%-125%)			
				+/-0.503							
Cobalt-60	6.78			6.94	pCi/g		102	(75%-125%)			
				+/-0.530							
Europium-152			U	0.0403	pCi/g						
				+/-0.319							
Europium-154			U	0.0305	pCi/g						
				+/-0.158							

GEL LABORATORIES LLC

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

QC Summary

Workorder: 236227

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	898568										
Manganese-54			U	0.005 +/-0.0928	pCi/g						
Potassium-40			U	0.663 +/-0.632	pCi/g				MXR1	09/01/09	06:13
Sodium-22			U	-0.00313 +/-0.0583	pCi/g						
Thorium-228				0.991 +/-0.175	pCi/g						
Thorium-232				1.21 +/-0.505	pCi/g						
Uranium-235			U	0.022 +/-0.323	pCi/g						
Uranium-238			U	-0.591 +/-1.09	pCi/g						
QC1201913790	MB										
Americium-241			U	0.0265 +/-0.0419	pCi/g					08/31/09	14:35
Cesium-134			U	-0.00697 +/-0.0148	pCi/g						
Cesium-137			U	0.0017 +/-0.0108	pCi/g						
Cobalt-60			U	-0.0153 +/-0.0124	pCi/g						
Europium-152			U	-0.0084 +/-0.0271	pCi/g						
Europium-154			U	0.0255 +/-0.0253	pCi/g						
Manganese-54			U	0.000925 +/-0.00979	pCi/g						
Potassium-40			UI	0.00 +/-0.178	pCi/g						
Sodium-22			U	0.00935 +/-0.00902	pCi/g						
Thorium-228			U	0.00126 +/-0.0216	pCi/g						
Thorium-232			U	0.0123 +/-0.0321	pCi/g						
Uranium-235			U	0.0281 +/-0.0687	pCi/g						
Uranium-238			U	0.112 +/-0.521	pCi/g						

Notes:

The Qualifiers in this report are defined as follows:

GEL LABORATORIES LLC

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

QC Summary

Workorder: 236227

Page 3 of 3

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
**		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.									
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.



March 01, 2010

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

Re: SSFL
Project Number: 1891614.050104 and 1891614.054521
Project Name: ISRA Sampling, Feb 2009
Work Order: 236268
SDG: 236268H

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 25, 2009 and June 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: 1891614.054521
Chain of Custody: MWHAL20090224_00 and MWHBM20090601_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236268H

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 236268001

BASIS: Dry Weight

DATE COLLECTED 24-FEB-09

CLIENT ID: HZBS0089S001

LEVEL: Low

DATE RECEIVED 25-FEB-09

MATRIX: SOIL

%SOLIDS: 91

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	1.62	mg/kg		0.0213	0.213	0.2	2	MS	BAJ	09/03/09 20:45	090903-1	898937
7440-66-6	Zinc	80.6	mg/kg	E	0.427	2.13	5	2	MS	BAJ	09/04/09 11:19	090904-2	898937

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
898937	898936	SW846 3050B	0.515	g	50	mL	09/02/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236268H

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 236268002

BASIS: Dry Weight

DATE COLLECTED 01-JUN-09

CLIENT ID: HZBS0111S001

LEVEL: Low

DATE RECEIVED 02-JUN-09

MATRIX: SOIL

%SOLIDS: 91.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.354	mg/kg		0.0212	0.212	0.2	2	MS	BAJ	09/03/09 21:16	090903-1	898937
7439-92-1	Lead	11.6	mg/kg	E	0.106	0.425	0.4	2	MS	BAJ	09/04/09 11:33	090904-2	898937
7440-66-6	Zinc	72.2	mg/kg	E	0.425	2.12	5	2	MS	BAJ	09/04/09 11:33	090904-2	898937

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
898937	898936	SW846 3050B	0.516	g	50	mL	09/02/09	AXG2



March 01, 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: 236436
SDG: 236436

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 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: MWHAG20090901_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236436

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236436001

BASIS: As Received

DATE COLLECTED 01-SEP-09

CLIENT ID: EBQW2246

LEVEL: Low

DATE RECEIVED 02-SEP-09

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	0.330	ug/L	U	0.33	1	1	1	MS	PRB	09/10/09 13:08	090910-1	899717
7439-92-1	Lead	0.50	ug/L	U	0.5	2	2	1	MS	PRB	09/10/09 13:08	090910-1	899717

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
899717	899716	SW846 3005A	50	mL	50	mL	09/03/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236436

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236436002

BASIS: Dry Weight

DATE COLLECTED 01-SEP-09

CLIENT ID: HZET0300D001

LEVEL: Low

DATE RECEIVED 02-SEP-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	1550	mg/kg	*	7.5	22.7	0.2	200	MS	SKJ	09/09/09 16:03	090909-3	899713
7439-92-1	Lead	54.3	mg/kg	*E	0.114	0.455	0.4	2	MS	SKJ	09/08/09 22:57	090908-2	899713

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
899713	899712	SW846 3050B	0.516	g	50	mL	09/03/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236436

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236436003

BASIS: Dry Weight

DATE COLLECTED 01-SEP-09

CLIENT ID: HZET0300S001

LEVEL: Low

DATE RECEIVED 02-SEP-09

MATRIX: SOIL

%SOLIDS: 90.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	362	mg/kg	*	1.77	5.36	0.2	50	MS	SKJ	09/09/09 16:07	090909-3	899713
7439-92-1	Lead	47.1	mg/kg	*E	0.107	0.429	0.4	2	MS	SKJ	09/08/09 23:00	090908-2	899713

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
899713	899712	SW846 3050B	0.513	g	50	mL	09/03/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236436

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236436004

BASIS: Dry Weight

DATE COLLECTED 01-SEP-09

CLIENT ID: HZET0301S001

LEVEL: Low

DATE RECEIVED 02-SEP-09

MATRIX: SOIL

%SOLIDS: 93.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	4.61	mg/kg	*	0.0675	0.205	0.2	2	MS	SKJ	09/09/09 16:25	090909-3	899713
7439-92-1	Lead	5	mg/kg	*E	0.102	0.409	0.4	2	MS	SKJ	09/08/09 23:20	090908-2	899713

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
899713	899712	SW846 3050B	0.525	g	50	mL	09/03/09	BXA1



March 16, 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: 236642
SDG: 236642

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 04, 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: MWHAG20090903_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236642

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236642001

BASIS: As Received

DATE COLLECTED 03-SEP-09

CLIENT ID: EBQW2247

LEVEL: Low

DATE RECEIVED 04-SEP-09

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	1.6	ug/L	U	1.6	5	5	1	MS	SKJ	09/11/09 04:01	090910-6	900879
7440-43-9	Cadmium	0.110	ug/L	U	0.11	1	1	1	MS	SKJ	09/11/09 04:01	090910-6	900879
7440-47-3	Chromium	2.49	ug/L	J	2	10	3	1	MS	SKJ	09/11/09 04:01	090910-6	900879
7440-50-8	Copper	0.791	ug/L	J	0.33	1	1	1	MS	SKJ	09/11/09 04:01	090910-6	900879
7439-97-6	Mercury	0.066	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	09/09/09 10:56	090909W1-7	900811
7440-02-0	Nickel	0.50	ug/L	U	0.5	2	2	1	MS	SKJ	09/11/09 04:01	090910-6	900879
7440-22-4	Silver	1	ug/L	U	1	5	1	1	P	HSC	09/09/09 08:44	090909-2	900694

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
900694	900693	SW846 3005A	50	mL	50	mL	09/08/09	FGA
900811	900808	SW846 7470A Prep	20	mL	20	mL	09/08/09	TXB3
900879	900878	SW846 3005A	50	mL	50	mL	09/09/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236642

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236642002

BASIS: Dry Weight

DATE COLLECTED 03-SEP-09

CLIENT ID: HZET0500S001

LEVEL: Low

DATE RECEIVED 04-SEP-09

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	4.21	mg/kg		0.222	1.11	0.5	2	MS	PRB	09/10/09 22:57	090910-3	900805
7440-43-9	Cadmium	0.133	mg/kg	J	0.0222	0.222	0.2	2	MS	PRB	09/10/09 22:57	090910-3	900805
7440-47-3	Chromium	14.3	mg/kg		0.222	0.666	1	2	MS	PRB	09/10/09 22:57	090910-3	900805
7440-50-8	Copper	5.94	mg/kg	N	0.0733	0.222	0.2	2	MS	PRB	09/10/09 22:57	090910-3	900805
7439-97-6	Mercury	0.0371	mg/kg		0.0044	0.0129	0.01	1	AV	JXL1	09/10/09 11:07	091009S1-8	901108
7440-02-0	Nickel	11.5	mg/kg	N	0.555	2.22	0.4	10	MS	PRB	09/14/09 16:23	090914-5	900805
7440-22-4	Silver	1.14	mg/kg		0.109	0.547	0.2	1	P	HSC	09/10/09 15:42	091009-1	900615

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
900615	900613	SW846 3050B	0.514	g	50	mL	09/09/09	AXG2
900805	900804	SW846 3050B	0.507	g	50	mL	09/09/09	AXG2
901108	901107	SW846 7471A Prep	0.522	g	30	mL	09/09/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236642

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236642003

BASIS: Dry Weight

DATE COLLECTED 03-SEP-09

CLIENT ID: HZET0501S001

LEVEL: Low

DATE RECEIVED 04-SEP-09

MATRIX: SOIL

%SOLIDS: 99

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	4.19	mg/kg		0.198	0.992	0.5	2	MS	PRB	09/10/09 23:23	090910-3	900805
7440-43-9	Cadmium	0.247	mg/kg		0.0198	0.198	0.2	2	MS	PRB	09/10/09 23:23	090910-3	900805
7440-47-3	Chromium	12.4	mg/kg		0.198	0.595	1	2	MS	PRB	09/10/09 23:23	090910-3	900805
7440-50-8	Copper	9.72	mg/kg	N	0.0655	0.198	0.2	2	MS	PRB	09/10/09 23:23	090910-3	900805
7439-97-6	Mercury	0.0647	mg/kg		0.00411	0.0121	0.01	1	AV	JXL1	09/10/09 11:09	091009S1-8	901108
7440-02-0	Nickel	9.7	mg/kg	N	0.496	1.98	0.4	10	MS	PRB	09/12/09 11:41	090911-4	900805
7440-22-4	Silver	0.582	mg/kg		0.0979	0.489	0.2	1	P	HSC	09/10/09 15:46	091009-1	900615

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
900615	900613	SW846 3050B	0.516	g	50	mL	09/09/09	AXG2
900805	900804	SW846 3050B	0.509	g	50	mL	09/09/09	AXG2
901108	901107	SW846 7471A Prep	0.501	g	30	mL	09/09/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236642

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236642004

BASIS: Dry Weight

DATE COLLECTED 03-SEP-09

CLIENT ID: HZET0502D001

LEVEL: Low

DATE RECEIVED 04-SEP-09

MATRIX: SOIL

%SOLIDS: 97.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	3.43	mg/kg		0.203	1.01	0.5	2	MS	PRB	09/10/09 23:27	090910-3	900805
7440-43-9	Cadmium	0.120	mg/kg	J	0.0203	0.203	0.2	2	MS	PRB	09/10/09 23:27	090910-3	900805
7440-47-3	Chromium	13.3	mg/kg		0.203	0.608	1	2	MS	PRB	09/10/09 23:27	090910-3	900805
7440-50-8	Copper	7.35	mg/kg	N	0.0668	0.203	0.2	2	MS	PRB	09/10/09 23:27	090910-3	900805
7439-97-6	Mercury	0.0541	mg/kg		0.00386	0.0113	0.01	1	AV	JXL1	09/10/09 11:14	091009S1-8	901108
7440-02-0	Nickel	9.66	mg/kg	N	0.506	2.03	0.4	10	MS	PRB	09/12/09 11:43	090911-4	900805
7440-22-4	Silver	0.312	mg/kg		0.0978	0.489	0.2	1	P	HSC	09/10/09 15:49	091009-1	900615

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
900615	900613	SW846 3050B	0.525	g	50	mL	09/09/09	AXG2
900805	900804	SW846 3050B	0.507	g	50	mL	09/09/09	AXG2
901108	901107	SW846 7471A Prep	0.543	g	30	mL	09/09/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236642

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236642005

BASIS: Dry Weight

DATE COLLECTED 03-SEP-09

CLIENT ID: HZET0502S001

LEVEL: Low

DATE RECEIVED 04-SEP-09

MATRIX: SOIL

%SOLIDS: 94.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	2.52	mg/kg		0.208	1.04	0.5	2	MS	PRB	09/10/09 23:31	090910-3	900805
7440-43-9	Cadmium	0.119	mg/kg	J	0.0208	0.208	0.2	2	MS	PRB	09/10/09 23:31	090910-3	900805
7440-47-3	Chromium	12.8	mg/kg		0.208	0.625	1	2	MS	PRB	09/10/09 23:31	090910-3	900805
7440-50-8	Copper	6.71	mg/kg	N	0.0687	0.208	0.2	2	MS	PRB	09/10/09 23:31	090910-3	900805
7439-97-6	Mercury	0.0459	mg/kg		0.00416	0.0122	0.01	1	AV	JXL1	09/10/09 11:15	091009S1-8	901108
7440-02-0	Nickel	9.89	mg/kg	N	0.521	2.08	0.4	10	MS	PRB	09/12/09 11:44	090911-4	900805
7440-22-4	Silver	0.240	mg/kg		0.103	0.516	0.2	1	P	HSC	09/10/09 15:52	091009-1	900615

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
900615	900613	SW846 3050B	0.512	g	50	mL	09/09/09	AXG2
900805	900804	SW846 3050B	0.508	g	50	mL	09/09/09	AXG2
901108	901107	SW846 7471A Prep	0.519	g	30	mL	09/09/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236642

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236642006

BASIS: Dry Weight

DATE COLLECTED 03-SEP-09

CLIENT ID: HZET0503S001

LEVEL: Low

DATE RECEIVED 04-SEP-09

MATRIX: SOIL

%SOLIDS: 95.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	4.02	mg/kg		0.208	1.04	0.5	2	MS	PRB	09/10/09 23:34	090910-3	900805
7440-43-9	Cadmium	0.275	mg/kg		0.0208	0.208	0.2	2	MS	PRB	09/10/09 23:34	090910-3	900805
7440-47-3	Chromium	22.7	mg/kg		0.208	0.624	1	2	MS	PRB	09/10/09 23:34	090910-3	900805
7440-50-8	Copper	11.9	mg/kg	N	0.0687	0.208	0.2	2	MS	PRB	09/10/09 23:34	090910-3	900805
7439-97-6	Mercury	0.00981	mg/kg	J	0.00417	0.0123	0.01	1	AV	JXL1	09/10/09 11:17	091009S1-8	901108
7440-02-0	Nickel	17.7	mg/kg	N	0.52	2.08	0.4	10	MS	PRB	09/12/09 11:46	090911-4	900805
7440-22-4	Silver	0.343	mg/kg		0.103	0.517	0.2	1	P	HSC	09/10/09 15:55	091009-1	900615

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
900615	900613	SW846 3050B	0.507	g	50	mL	09/09/09	AXG2
900805	900804	SW846 3050B	0.504	g	50	mL	09/09/09	AXG2
901108	901107	SW846 7471A Prep	0.513	g	30	mL	09/09/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236642

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236642007

BASIS: Dry Weight

DATE COLLECTED 03-SEP-09

CLIENT ID: HZET0504S001

LEVEL: Low

DATE RECEIVED 04-SEP-09

MATRIX: SOIL

%SOLIDS: 99.43

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	2.95	mg/kg		0.196	0.978	0.5	2	MS	PRB	09/10/09 23:38	090910-3	900805
7440-43-9	Cadmium	0.131	mg/kg	J	0.0196	0.196	0.2	2	MS	PRB	09/10/09 23:38	090910-3	900805
7440-47-3	Chromium	10.9	mg/kg		0.196	0.587	1	2	MS	PRB	09/10/09 23:38	090910-3	900805
7440-50-8	Copper	4.49	mg/kg	N	0.0646	0.196	0.2	2	MS	PRB	09/10/09 23:38	090910-3	900805
7439-97-6	Mercury	0.0311	mg/kg		0.00405	0.0119	0.01	1	AV	JXL1	09/10/09 11:19	091009S1-8	901108
7440-02-0	Nickel	6.78	mg/kg	N	0.489	1.96	0.4	10	MS	PRB	09/12/09 11:48	090911-4	900805
7440-22-4	Silver	0.367	mg/kg		0.099	0.495	0.2	1	P	HSC	09/10/09 15:58	091009-1	900615

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
900615	900613	SW846 3050B	0.508	g	50	mL	09/09/09	AXG2
900805	900804	SW846 3050B	0.514	g	50	mL	09/09/09	AXG2
901108	901107	SW846 7471A Prep	0.507	g	30	mL	09/09/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236642

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236642008

BASIS: Dry Weight

DATE COLLECTED 03-SEP-09

CLIENT ID: HZET0505S001

LEVEL: Low

DATE RECEIVED 04-SEP-09

MATRIX: SOIL

%SOLIDS: 98.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	3.07	mg/kg		0.201	1	0.5	2	MS	PRB	09/10/09 23:42	090910-3	900805
7440-43-9	Cadmium	0.0728	mg/kg	J	0.0201	0.201	0.2	2	MS	PRB	09/10/09 23:42	090910-3	900805
7440-47-3	Chromium	11.4	mg/kg		0.201	0.602	1	2	MS	PRB	09/10/09 23:42	090910-3	900805
7440-50-8	Copper	3.85	mg/kg	N	0.0662	0.201	0.2	2	MS	PRB	09/10/09 23:42	090910-3	900805
7439-97-6	Mercury	0.0252	mg/kg		0.00383	0.0113	0.01	1	AV	JXL1	09/10/09 11:20	091009S1-8	901108
7440-02-0	Nickel	6.48	mg/kg	N	0.501	2.01	0.4	10	MS	PRB	09/12/09 11:50	090911-4	900805
7440-22-4	Silver	0.289	mg/kg		0.101	0.505	0.2	1	P	HSC	09/10/09 16:01	091009-1	900615

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
900615	900613	SW846 3050B	0.503	g	50	mL	09/09/09	AXG2
900805	900804	SW846 3050B	0.507	g	50	mL	09/09/09	AXG2
901108	901107	SW846 7471A Prep	0.541	g	30	mL	09/09/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236642

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236642009

BASIS: Dry Weight

DATE COLLECTED 03-SEP-09

CLIENT ID: HZET0506S001

LEVEL: Low

DATE RECEIVED 04-SEP-09

MATRIX: SOIL

%SOLIDS: 97.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	5.94	mg/kg		0.197	0.986	0.5	2	MS	PRB	09/10/09 23:46	090910-3	900805
7440-43-9	Cadmium	0.120	mg/kg	J	0.0197	0.197	0.2	2	MS	PRB	09/10/09 23:46	090910-3	900805
7440-47-3	Chromium	17.1	mg/kg		0.197	0.592	1	2	MS	PRB	09/10/09 23:46	090910-3	900805
7440-50-8	Copper	12.3	mg/kg	N	0.0651	0.197	0.2	2	MS	PRB	09/10/09 23:46	090910-3	900805
7439-97-6	Mercury	0.0188	mg/kg		0.00376	0.0111	0.01	1	AV	JXL1	09/10/09 11:22	091009S1-8	901108
7440-02-0	Nickel	12.1	mg/kg	N	0.493	1.97	0.4	10	MS	PRB	09/12/09 11:51	090911-4	900805
7440-22-4	Silver	0.373	mg/kg		0.0977	0.489	0.2	1	P	HSC	09/10/09 16:04	091009-1	900615

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
900615	900613	SW846 3050B	0.525	g	50	mL	09/09/09	AXG2
900805	900804	SW846 3050B	0.52	g	50	mL	09/09/09	AXG2
901108	901107	SW846 7471A Prep	0.557	g	30	mL	09/09/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 236642

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 236642010

BASIS: Dry Weight

DATE COLLECTED 03-SEP-09

CLIENT ID: HZET0507S001

LEVEL: Low

DATE RECEIVED 04-SEP-09

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-38-2	Arsenic	4.42	mg/kg		0.233	1.16	0.5	2	MS	PRB	09/10/09 23:50	090910-3	900805
7440-43-9	Cadmium	0.30	mg/kg		0.0233	0.233	0.2	2	MS	PRB	09/10/09 23:50	090910-3	900805
7440-47-3	Chromium	25	mg/kg		0.233	0.698	1	2	MS	PRB	09/10/09 23:50	090910-3	900805
7440-50-8	Copper	12.9	mg/kg	N	0.0767	0.233	0.2	2	MS	PRB	09/10/09 23:50	090910-3	900805
7439-97-6	Mercury	0.00846	mg/kg	J	0.00423	0.0124	0.01	1	AV	JXL1	09/10/09 11:24	091009S1-8	901108
7440-02-0	Nickel	19.9	mg/kg	N	0.581	2.33	0.4	10	MS	PRB	09/14/09 16:14	090914-5	900805
7440-22-4	Silver	0.412	mg/kg		0.117	0.583	0.2	1	P	HSC	09/10/09 15:20	091009-1	900615

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
900615	900613	SW846 3050B	0.501	g	50	mL	09/09/09	AXG2
900805	900804	SW846 3050B	0.502	g	50	mL	09/09/09	AXG2
901108	901107	SW846 7471A Prep	0.563	g	30	mL	09/09/09	TXB3



March 01, 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: 236646
SDG: 236646

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 04, 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: MWHAG20090903_01
Enclosures

GC
SEMIVOLATILE
PCB
ANALYSIS

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 236646
Lab Sample ID: 236646001

Client: SSFL001
Date Collected: 09/03/2009 14:30
Date Received: 09/04/2009 08:40

Project: SSFL00160
Matrix: Solid

Client ID: HZSO0001S001
Batch ID: 901026
Run Date: 09/10/2009 14:59
Data File: Dual Column
Prep Batch: 901025
Prep Date: 09/09/2009 14:26

Method: SW846 8082
Analyst: YS1
Inj. Vol: 1 uL
Prep Method: SW846 3550B
Aliquot: 17.35 g

Prep Basis: As Received
SOP Ref: GL-OA-E-040
Instrument: ECD2A.I
Dilution: 500
Prep SOP Ref: GL-OA-E-010
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	2880	ug/kg	960	2880	15.0	045f4501.d
11104-28-2	Aroclor-1221	U	2880	ug/kg	960	2880	15.0	045f4501.d
11141-16-5	Aroclor-1232	U	2880	ug/kg	960	2880	15.0	045f4501.d
53469-21-9	Aroclor-1242	U	2880	ug/kg	960	2880	15.0	045f4501.d
12672-29-6	Aroclor-1248	U	2880	ug/kg	960	2880	15.0	045f4501.d
11097-69-1	Aroclor-1254		13800	ug/kg	960	2880	15.0	045f4501.d
11096-82-5	Aroclor-1260	U	2880	ug/kg	960	2880	15.0	045f4501.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	0.00	11.5	ug/kg	0.00 *	(34%-105%)	045f4501.d
Decachlorobiphenyl	0.00	11.5	ug/kg	0.00 *	(33%-115%)	045f4501.d

Comments:

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



February 25, 2010

Re: A2LF

Project Name: ISRA Waste Characterization

Work Order: 236678

SDG: 236678

Dear Mrs. Von Raesfeld,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 04, 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

Chain of Custody:

Enclosures

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 : **2009 ISRA Waste Characterization – Outfall
 009**

Report Date: September 15, 2009

Client Sample ID: ISWC0104RadS001
Sample ID: 236678001
Matrix: Soil
Collect Date: 03-SEP-09 11:36
Receive Date: 04-SEP-09
Collector: Client

Project: SSFL00161
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	-0.0227	+/-0.182	0.336		pCi/g		BSW1 09/10/09	0913	901356	1
Cesium-134 13967709	UI	0.00	+/-0.0483	0.0636		pCi/g					
Cesium-137 10045973		0.122	+/-0.0529	0.0437	0.050	pCi/g					
Cobalt-60 10198400	U	-0.0118	+/-0.0242	0.0384		pCi/g					
Europium-152 14683239	U	0.024	+/-0.0994	0.123		pCi/g					
Europium-154 15585101	U	-0.0829	+/-0.0862	0.133		pCi/g					
Lead-214 15067284		1.07	+/-0.136	0.0868		pCi/g					
Manganese-54 13966319	U	-0.00929	+/-0.0253	0.043		pCi/g					
Potassium-40 13966002		22.4	+/-1.99	0.376		pCi/g					
Sodium-22 13966320	U	-0.03	+/-0.0307	0.0474		pCi/g					
Thorium-228 14274829		1.53	+/-0.147	0.0692		pCi/g					
Thorium-232 7440291		1.55	+/-0.259	0.147		pCi/g					
Uranium-235 15117961	U	0.103	+/-0.153	0.275		pCi/g					
Uranium-238 7440611	U	-1.17	+/-1.44	2.51		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.00767	+/-0.0224	0.0415	0.050	pCi/g		JXR1 09/12/09	1147	901046	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.136	+/-0.510	0.915	1.00	pCi/g		KXK2 09/14/09	1440	900936	3

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: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0104RadS001 Project: SSFL00161
Sample ID: 236678001 Client ID: SSFL001

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

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	09/08/09	1345	900956

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			86.3	(25%–125%)

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: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0105RadS001
Sample ID: 236678002
Matrix: Soil
Collect Date: 03-SEP-09 11:51
Receive Date: 04-SEP-09
Collector: Client

Project: SSFL00161
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0143	+/-0.118	0.203		pCi/g		BSW1 09/10/09	0956	901356	1
Cesium-134 13967709	UI	0.00	+/-0.0425	0.061		pCi/g					
Cesium-137 10045973		0.123	+/-0.0418	0.0459	0.050	pCi/g					
Cobalt-60 10198400	U	0.00764	+/-0.0259	0.0448		pCi/g					
Europium-152 14683239	U	-0.0542	+/-0.0719	0.0981		pCi/g					
Europium-154 15585101	U	-0.0272	+/-0.0794	0.132		pCi/g					
Lead-214 15067284		1.13	+/-0.144	0.0748		pCi/g					
Manganese-54 13966319	U	-0.00354	+/-0.0239	0.0403		pCi/g					
Potassium-40 13966002		22.3	+/-1.94	0.368		pCi/g					
Sodium-22 13966320	U	-0.0099	+/-0.0283	0.0468		pCi/g					
Thorium-228 14274829		1.53	+/-0.160	0.0599		pCi/g					
Thorium-232 7440291		1.60	+/-0.270	0.138		pCi/g					
Uranium-235 15117961	U	-0.106	+/-0.141	0.233		pCi/g					
Uranium-238 7440611	U	1.52	+/-1.58	1.60		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0287	+/-0.0245	0.0393	0.050	pCi/g		JXR1 09/14/09	1402	901046	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.486	+/-0.486	0.909	1.00	pCi/g		KXK2 09/14/09	1613	900936	3

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: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0105RadS001 Project: SSFL00161
Sample ID: 236678002 Client ID: SSFL001

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

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	09/08/09	1345	900956

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			80.9	(25%–125%)

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: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0106RadS001
Sample ID: 236678003
Matrix: Soil
Collect Date: 03-SEP-09 12:04
Receive Date: 04-SEP-09
Collector: Client

Project: SSFL00161
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	-0.00775	+/-0.128	0.239		pCi/g		BSW1 09/10/09	0956	901356	1
Cesium-134 13967709	UI	0.00	+/-0.0311	0.0556		pCi/g					
Cesium-137 10045973	U	-0.0176	+/-0.0223	0.0368	0.050	pCi/g					
Cobalt-60 10198400	U	0.0118	+/-0.0242	0.043		pCi/g					
Europium-152 14683239	U	-0.0644	+/-0.061	0.0886		pCi/g					
Europium-154 15585101	U	-0.0598	+/-0.0695	0.112		pCi/g					
Lead-214 15067284		0.916	+/-0.113	0.0695		pCi/g					
Manganese-54 13966319	U	-0.00153	+/-0.0208	0.0357		pCi/g					
Potassium-40 13966002		23.4	+/-2.23	0.294		pCi/g					
Sodium-22 13966320	U	-0.0291	+/-0.0253	0.0397		pCi/g					
Thorium-228 14274829		1.47	+/-0.127	0.0527		pCi/g					
Thorium-232 7440291		1.58	+/-0.277	0.120		pCi/g					
Uranium-235 15117961	U	0.0594	+/-0.126	0.217		pCi/g					
Uranium-238 7440611	U	0.215	+/-1.04	1.88		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0273	+/-0.0272	0.0443	0.050	pCi/g		JXR1 09/12/09	1147	901046	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.365	+/-0.493	0.908	1.00	pCi/g		KXK2 09/14/09	1745	900936	3

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: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0106RadS001 Project: SSFL00161
Sample ID: 236678003 Client ID: SSFL001

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

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	09/08/09	1345	900956

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			75.5	(25%–125%)

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 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0107RadS001
Sample ID: 236678004
Matrix: Soil
Collect Date: 03-SEP-09 12:16
Receive Date: 04-SEP-09
Collector: Client

Project: SSFL00161
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	-0.0246	+/-0.0843	0.144		pCi/g		BSW1 09/10/09	0957	901356	1
Cesium-134 13967709	UI	0.00	+/-0.0451	0.0531		pCi/g					
Cesium-137 10045973	U	0.0254	+/-0.0233	0.042	0.050	pCi/g					
Cobalt-60 10198400	U	0.000442	+/-0.0236	0.0401		pCi/g					
Europium-152 14683239	U	-0.0671	+/-0.0547	0.0882		pCi/g					
Europium-154 15585101	U	-0.0816	+/-0.0776	0.120		pCi/g					
Manganese-54 13966319	U	-0.0271	+/-0.0231	0.0366		pCi/g					
Potassium-40 13966002		21.8	+/-1.82	0.267		pCi/g					
Sodium-22 13966320	U	-0.0294	+/-0.0276	0.0428		pCi/g					
Thorium-228 14274829		1.40	+/-0.117	0.0516		pCi/g					
Thorium-232 7440291		1.35	+/-0.234	0.125		pCi/g					
Uranium-235 15117961	U	0.0255	+/-0.120	0.206		pCi/g					
Uranium-238 7440611		1.34	+/-1.17	1.28		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.00488	+/-0.0207	0.0398	0.050	pCi/g		JXR1 09/12/09	1147	901046	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.368	+/-0.498	0.917	1.00	pCi/g		KXK2 09/14/09	1918	900936	3

The following Prep Methods were performed

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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: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0107RadS001 Project: SSFL00161
Sample ID: 236678004 Client ID: SSFL001

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

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	09/08/09	1345	900956

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			78.7	(25%–125%)

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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: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0108RadS001
Sample ID: 236678005
Matrix: Soil
Collect Date: 03-SEP-09 13:04
Receive Date: 04-SEP-09
Collector: Client

Project: SSFL00161
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.048	+/-0.0399	0.0699		pCi/g		BSW1 09/10/09	0958	901356	1
Cesium-134 13967709	U	0.0442	+/-0.0366	0.0673		pCi/g					
Cesium-137 10045973		0.134	+/-0.0496	0.0536	0.050	pCi/g					
Cobalt-60 10198400	U	0.00422	+/-0.0301	0.0519		pCi/g					
Europium-152 14683239	U	0.0286	+/-0.0795	0.123		pCi/g					
Europium-154 15585101	U	0.0163	+/-0.0975	0.169		pCi/g					
Manganese-54 13966319	U	0.0429	+/-0.0292	0.054		pCi/g					
Potassium-40 13966002		21.6	+/-1.68	0.388		pCi/g					
Sodium-22 13966320	U	0.00484	+/-0.0347	0.0601		pCi/g					
Thorium-228 14274829		1.45	+/-0.151	0.0628		pCi/g					
Thorium-232 7440291		1.37	+/-0.248	0.168		pCi/g					
Uranium-235 15117961		0.252	+/-0.195	0.229		pCi/g					
Uranium-238 7440611		0.777	+/-0.727	0.685		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0172	+/-0.0223	0.0381	0.050	pCi/g		JXR1 09/14/09	1402	901046	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.222	+/-0.517	0.934	1.00	pCi/g		KXK2 09/14/09	2050	900936	3

The following Prep Methods were performed

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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: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0108RadS001 Project: SSFL00161
Sample ID: 236678005 Client ID: SSFL001

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

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	09/08/09	1345	900956

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			78.7	(25%–125%)

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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: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0109RadS001 Project: SSFL00161
Sample ID: 236678006 Client ID: SSFL001

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

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	09/08/09	1345	900956

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			84.1	(25%–125%)

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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: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0110RadS001
Sample ID: 236678007
Matrix: Soil
Collect Date: 03-SEP-09 13:34
Receive Date: 04-SEP-09
Collector: Client

Project: SSFL00161
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0921	+/-0.106	0.173		pCi/g		BSW1 09/10/09	1017	901356	1
Cesium-134 13967709	UI	0.00	+/-0.0413	0.0616		pCi/g					
Cesium-137 10045973		0.178	+/-0.0445	0.0465	0.050	pCi/g					
Cobalt-60 10198400	U	0.0181	+/-0.0226	0.0411		pCi/g					
Europium-152 14683239	U	-0.0339	+/-0.0836	0.110		pCi/g					
Europium-154 15585101	U	-0.0692	+/-0.0695	0.109		pCi/g					
Manganese-54 13966319	U	0.00378	+/-0.0235	0.040		pCi/g					
Potassium-40 13966002		22.0	+/-1.91	0.328		pCi/g					
Sodium-22 13966320	U	-0.0266	+/-0.0249	0.0388		pCi/g					
Thorium-228 14274829		1.41	+/-0.124	0.0638		pCi/g					
Thorium-232 7440291		1.64	+/-0.268	0.143		pCi/g					
Uranium-235 15117961	U	0.126	+/-0.165	0.244		pCi/g					
Uranium-238 7440611		2.96	+/-1.61	1.43		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.00741	+/-0.0162	0.0295	0.050	pCi/g		JXR1 09/14/09	1402	901046	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.325	+/-0.497	0.910	1.00	pCi/g		KXK2 09/14/09	2356	900936	3

The following Prep Methods were performed

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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: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0110RadS001 Project: SSFL00161
Sample ID: 236678007 Client ID: SSFL001

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

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	09/08/09	1345	900956

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			84.1	(25%–125%)

GEL LABORATORIES LLC

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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 : **2009 ISRA Waste Characterization – Outfall
 009**

Report Date: September 15, 2009

Client Sample ID: ISWC0111RadS001
Sample ID: 236678008
Matrix: Soil
Collect Date: 03-SEP-09 13:45
Receive Date: 04-SEP-09
Collector: Client

Project: SSFL00161
Client ID: SSFL001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.0779	+/-0.112	0.187		pCi/g		BSW1 09/10/09	1036	901356	1
Cesium-134 13967709	UI	0.00	+/-0.0296	0.0572		pCi/g					
Cesium-137 10045973	U	0.0244	+/-0.0243	0.0449	0.050	pCi/g					
Cobalt-60 10198400	U	-0.00352	+/-0.0241	0.041		pCi/g					
Europium-152 14683239	U	-0.0347	+/-0.0682	0.102		pCi/g					
Europium-154 15585101	U	-0.0589	+/-0.0734	0.119		pCi/g					
Lead-214 15067284		0.981	+/-0.120	0.0708		pCi/g					
Manganese-54 13966319	U	0.00084	+/-0.0234	0.0405		pCi/g					
Potassium-40 13966002		21.0	+/-1.80	0.345		pCi/g					
Sodium-22 13966320	U	-0.0202	+/-0.0262	0.0426		pCi/g					
Thorium-228 14274829		1.37	+/-0.121	0.0598		pCi/g					
Thorium-232 7440291		1.41	+/-0.232	0.115		pCi/g					
Uranium-235 15117961	U	0.0967	+/-0.175	0.227		pCi/g					
Uranium-238 7440611	U	1.24	+/-1.29	1.52		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.00713	+/-0.0234	0.0443	0.050	pCi/g		JXR1 09/12/09	1319	901046	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	-0.165	+/-0.516	0.927	1.00	pCi/g		KXK2 09/15/09	0128	900936	3

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 #10-D
 Westminster, Colorado 80031
Contact: Ms. Kim Schultz
Project: **2009 ISRA Waste Characterization – Outfall
009**

Report Date: September 15, 2009

Client Sample ID: ISWC0111RadS001 Project: SSFL00161
Sample ID: 236678008 Client ID: SSFL001

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

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	09/08/09	1345	900956

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			72.2	(25%–125%)

Chain of Custody and Supporting Documentation

GEL Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number: **236678**
Phone #: **626-568-6000**
Fax #: **626-568-6515**

Project #:
GEL Quote #:
COC Number #:
PO Number:

Sample Analysis Requested (6) (Fill in the number of containers for each test)

Sample ID

Project/Site Name: **WASTE CHARACTERIZATION SAMPLING - A2LF**
Address: **618 MICHILLINDA AVE., SUITE 200 ARCADIA, CA 91007**
Collected by: **A. RUOTOLO** Send Results To: **SARAH VAN BAESFELD 925-4654**

Should this sample be considered:
Total number of containers

SR-90 by EPA 905.0
Tritium by EPA 906.0
Gamma Spec by 901.1

TSCA Regulated
Radioactive

*Time Collected (Military) (hhmm)
*Date Collected (mm-dd-yy)

QC Code (a)
Field Filtered (b)
Sample Matrix (c)

9-3-09 11:36 N N SO

11:51

12:04

12:16

13:04

13:21

13:34

13:45

9-3-09

AR

Level 1 / Level 2 / Level 3 / Level 4

Sample Collection Time Zone

Eastern Pacific Other

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Gamma Spec should include Na-22, K-40, Mn-54, Co-60, Cs-134, Cs-137, Eu-152, Eu-153, Eu-154, Th-228, Th-232, U-235, U-238 and Am-241.

Relinquished By (Signed) Date Time

Received by (signed) Date Time

Method of Shipment: FEDEX

Date Shipped: 9/3/09

Airbill #:

Airbill #:

Chain of Custody Number = Client Determined

1) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, O = Grab, C = Composite

2) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for no sample was not field filtered.

3) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SF=Solid Waste, O=Oil, F=Filler, P=Wipe, U=Urine, F=Feecal, N=Nasal

4) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

5) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Toluolate, If no preservative is added = leave field blank

6) For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

WHITE = LABORATORY
YELLOW = FILE
PINK = CLIENT



Client: <u>SSFL</u>		SDG/ARCO/Work Order: <u>236678</u>	
Received By: <u>JP</u>		Date Received: <u>9/4/09</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*: <u>20cpm</u>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	
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)
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: Fed Ex
9457 3161 4148



SAMPLE RECEIPT & REVIEW FORM

Client: <u>SSFL</u>	SDG/ARCOC/Work Order: <u>JT 9/10/09</u> <u>ZSS 805 236959H</u>
Received By: <u>JP</u>	Date Received: <u>8/21/09</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"/> No Maximum Counts Observed*: <u>30cpm</u>
Classified Radioactive II or III by RSO?	<input checked="" type="checkbox"/> No
COC/Samples marked containing PCBs?	<input checked="" type="checkbox"/> No
Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/> No Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input checked="" type="checkbox"/> No

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>5, 10, 15</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: <u>#27B 20037001 labkd as Trip Blank</u>
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected: <u>no time + date on trip blank</u>
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: Fed Ex 9457 3161 5420
" " 5410
" " 5431

Subject: asbestos add-on, 235805

From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com>

Date: Thu, 10 Sep 2009 15:28:27 -0600

To: Jackie Trudell <jacqueline.trudell@gel.com>

Hi Jackie,

Please run asbestos on a 24hr TAT for the following samples:

HZBS0173S001

HZBS0173S002

HZBS0174S001

HZBS0174S002

Thanks,
Sarah



MWH

BUILDING A BETTER WORLD

Sarah Von Raesfeld

Environmental Chemist

MWH Americas, Inc.

2121 N. California Blvd.

Suite 600

Walnut Creek, California 94596

Telephone: 925 627 4500

Direct Line: 925 627 4654

Facsimile: 925 627 4501

Subcontract Data

Asbestos



EMLab P&K

Report for:

Jackie Trudell
GEL Laboratories, LLC
2040 Savage Rd.
Charleston, SC 29407

Regarding: Project: SSFL-ISRA
 EML ID: 580146

Approved by:

Lab Manager
Baluswamy Krishnan

Dates of Analysis:
Asbestos-EPA Method 600/R-93/116: 09-14-2009

Project SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 100204))

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Document Number: 200091 - Revision Number: 5

Client: GEL Laboratories, LLC
 C/O: Jackie Trudell
 Re: SSFL-ISRA

Date of Sampling: 08-20-2009
 Date of Receipt: 09-11-2009
 Date of Report: 09-14-2009

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 4
Total Samples Analysed: 4

Total Samples with Layer Asbestos Content > 1%: 0

Location: HZBS0173S001

Lab ID-Version‡: 2574582-1

Sample Layers	Asbestos Content
Brown Soil	ND
Composite Non-Asbestos Fibrous Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: HZBS0173S002

Lab ID-Version‡: 2574583-1

Sample Layers	Asbestos Content
Brown Soil	ND
Composite Non-Asbestos Fibrous Content:	3% Cellulose
Sample Composite Homogeneity:	Moderate

Location: HZBS0174S001

Lab ID-Version‡: 2574584-1

Sample Layers	Asbestos Content
Brown Soil	ND
Composite Non-Asbestos Fibrous Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: HZBS0174S002

Lab ID-Version‡: 2574585-1

Sample Layers	Asbestos Content
Light Brown Soil	ND
Composite Non-Asbestos Fibrous Content:	1% Cellulose
Sample Composite Homogeneity:	Moderate

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed.

‡ A "Version" greater than 1 indicates amended data.

GEL Chain of Custody and Analytical Request



000580146

Page: 1 of 1
 Project #: _____
 GEL Quote #: _____
 COC Number: **MWHAR20010822-08**
 PO Number: _____
 Client Name: **GEL Laboratories**
 Project/Site Name: **SSFL - 15EA**
 Address: **2040 Savage Rd. Charleston, SC 29407**
 Collected by: **Client**
 Send Results To: **Team.Truddell@gel.com**
 Phone #: **843-769-7388**
 Fax #: _____
 GEL Work Order Number: **GEL SDG 236959H**
 Sample Analysis Requested: **(8)** (Fill in the number of containers for each test)

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hh:mm)	QC Code	Field Filtered (0)	Sample Matrix	Should this sample be considered:		Total number of containers		Comments
						Radioactive	TSCA Regulated	Asbestos	EPA 600/R-93-116	
HZBS01735001	8/20/09	0940	N	N	SO	N	N	1	1	
HZBS01735002	8/20/09	0957	N	N	SO	N	N	1	1	
HZBS01745001	8/20/09	1035	N	N	SO	N	N	1	1	
HZBS01745002	8/20/09	1056	N	N	SO	N	N	1	1	

Chain of Custody Signatures

Relinquishing Signature: _____ Date: _____ Time: _____
 Received by (signed): _____ Date: _____ Time: _____

Method of Shipment: _____ Date Shipped: _____

Sample Collection Time Zone: _____
 Eastern Pacific Other _____
 Mountain _____

Remarks: **Are there any known hazards applicable to these samples? If so, please list the hazards.**
Please report results on a "Next Day" turn around time, and return unused soil.
Please contact Jackie Truddell with any question.

- 1) Chain of Custody Number - Client Determined
 2) QC Codes: N - Normal Sample, TB - Trip Blank, PD - Field Duplicate, FB - Triplicate Blank, MS - Matrix Spike Sample, MSD - Matrix Spike Duplicate Sample, C - Grab, C - Composite
 3) Field Filtered: For liquid matrices, indicate with a "V" for yes the sample was field filtered or "N" for sample was not field filtered.
 4) Matrix Codes: DW=Drinking Water, CW=Cooling Water, SW=Surface Water, WW=Wastewater, SD=Soil, SD=Soil, SD=Soil, SL=Sludge, SS=Solid Waste, OC=Oil, P=Filter, P=Wipe, U=Urine, B=Total, N=Normal
 5) Sample Analysis Requested: Analytical method requested (i.e. 8160B, 8160B(A), and number of containers provided for each (i.e. 25001 - 3, 60102/2704 - 1))
 6) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SI - Sodium Iodate, SA - Sulfuric Acid, AA - Ascorbic Acid, HX - Hexamine, ST - Sodium Thiosulfate. If no preservative is added - leave field blank.
- WHITE = LABORATORY** **YELLOW = FILE** **PINK = CLIENT**

For Lab Receiving Use Only
 Custody Seal Intact? YES
 Cooler Temp: C



March 02, 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: 237071
SDG: 237071

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 11, 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: MWHAG20090910_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071001

BASIS: Dry Weight

DATE COLLECTED 10-SEP-09

CLIENT ID: HZET0200S001

LEVEL: Low

DATE RECEIVED 11-SEP-09

MATRIX: SOIL

%SOLIDS: 99.09

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	4.68	mg/kg		0.101	0.402	0.4	2	MS	PRB	09/17/09 22:15	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.502	g	50	mL	09/14/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071002

BASIS: Dry Weight

DATE COLLECTED 10-SEP-09

CLIENT ID: HZET0201S001

LEVEL: Low

DATE RECEIVED 11-SEP-09

MATRIX: SOIL

%SOLIDS: 95.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	4.73	mg/kg		0.102	0.406	0.4	2	MS	PRB	09/17/09 22:44	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.514	g	50	mL	09/14/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071003

BASIS: Dry Weight

DATE COLLECTED 10-SEP-09

CLIENT ID: HZET0202S001

LEVEL: Low

DATE RECEIVED 11-SEP-09

MATRIX: SOIL

%SOLIDS: 99.06

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	4.59	mg/kg		0.1	0.401	0.4	2	MS	PRB	09/17/09 22:50	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.504	g	50	mL	09/14/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071004

BASIS: Dry Weight

DATE COLLECTED 10-SEP-09

CLIENT ID: HZET0203S001

LEVEL: Low

DATE RECEIVED 11-SEP-09

MATRIX: SOIL

%SOLIDS: 99.22

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	4.44	mg/kg		0.1	0.4	0.4	2	MS	PRB	09/17/09 22:56	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.504	g	50	mL	09/14/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071005

BASIS: Dry Weight

DATE COLLECTED 10-SEP-09

CLIENT ID: HZET0204S001

LEVEL: Low

DATE RECEIVED 11-SEP-09

MATRIX: SOIL

%SOLIDS: 99.05

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	4.52	mg/kg		0.0976	0.391	0.4	2	MS	PRB	09/17/09 23:13	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.517	g	50	mL	09/14/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071006

BASIS: Dry Weight

DATE COLLECTED 10-SEP-09

CLIENT ID: HZET0205S001

LEVEL: Low

DATE RECEIVED 11-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	5.78	mg/kg		0.101	0.404	0.4	2	MS	PRB	09/17/09 23:19	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.501	g	50	mL	09/14/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071007

BASIS: Dry Weight

DATE COLLECTED 10-SEP-09

CLIENT ID: HZET0206S001

LEVEL: Low

DATE RECEIVED 11-SEP-09

MATRIX: SOIL

%SOLIDS: 98.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	11.9	mg/kg		0.101	0.402	0.4	2	MS	PRB	09/17/09 23:25	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.506	g	50	mL	09/14/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071008

BASIS: Dry Weight

DATE COLLECTED 10-SEP-09

CLIENT ID: HZET0207S001

LEVEL: Low

DATE RECEIVED 11-SEP-09

MATRIX: SOIL

%SOLIDS: 95.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	6.3	mg/kg		0.104	0.417	0.4	2	MS	PRB	09/17/09 23:30	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.501	g	50	mL	09/14/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071009

BASIS: Dry Weight

DATE COLLECTED 10-SEP-09

CLIENT ID: HZET0208S001

LEVEL: Low

DATE RECEIVED 11-SEP-09

MATRIX: SOIL

%SOLIDS: 95.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	11	mg/kg		0.1	0.402	0.4	2	MS	PRB	09/17/09 23:36	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.521	g	50	mL	09/14/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071010

BASIS: Dry Weight

DATE COLLECTED 10-SEP-09

CLIENT ID: HZET0209S001

LEVEL: Low

DATE RECEIVED 11-SEP-09

MATRIX: SOIL

%SOLIDS: 97.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	6.13	mg/kg		0.0977	0.391	0.4	2	MS	PRB	09/17/09 23:42	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.525	g	50	mL	09/14/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071011

BASIS: Dry Weight

DATE COLLECTED 10-SEP-09

CLIENT ID: HZET0210S001

LEVEL: Low

DATE RECEIVED 11-SEP-09

MATRIX: SOIL

%SOLIDS: 93.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	5.8	mg/kg		0.102	0.406	0.4	2	MS	PRB	09/17/09 23:48	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.525	g	50	mL	09/14/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071012 **BASIS:** Dry Weight **DATE COLLECTED** 10-SEP-09

CLIENT ID: HZET0211S001 **LEVEL:** Low **DATE RECEIVED** 11-SEP-09

MATRIX: SOIL **%SOLIDS:** 92.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	5.72	mg/kg		0.103	0.411	0.4	2	MS	PRB	09/17/09 23:54	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.525	g	50	mL	09/14/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237071

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237071013

BASIS: Dry Weight

DATE COLLECTED 10-SEP-09

CLIENT ID: HZET0212S001

LEVEL: Low

DATE RECEIVED 11-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
7439-92-1	Lead	7.79	mg/kg		0.108	0.434	0.4	2	MS	PRB	09/18/09 00:00	090917-1	902367

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
902367	902366	SW846 3050B	0.502	g	50	mL	09/14/09	FGA



March 05, 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: 237085
SDG: 237085H

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 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: MWHAG20090901_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237085H

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237085001

BASIS: As Received

DATE COLLECTED 01-SEP-09

CLIENT ID: HZET0300S001

LEVEL: Low

DATE RECEIVED 02-SEP-09

MATRIX: TCLP

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	13.8	mg/L		0.066	0.2	0.2	20	MS	PRB	09/18/09 13:25	090918-2	903438
7439-92-1	Lead	1.85	mg/L	E	0.005	0.02	0.4	1	MS	PRB	09/18/09 08:50	090917-1	903438

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903438	903437	SW846 3010A	5	mL	50	mL	09/16/09	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237085H

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237085002

BASIS: As Received

DATE COLLECTED 01-SEP-09

CLIENT ID: HZET0300D001

LEVEL: Low

DATE RECEIVED 02-SEP-09

MATRIX: TCLP

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	13.2	mg/L		0.066	0.2	0.2	20	MS	PRB	09/18/09 13:32	090918-2	903438
7439-92-1	Lead	2.11	mg/L	E	0.005	0.02	0.4	1	MS	PRB	09/18/09 09:09	090917-1	903438

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903438	903437	SW846 3010A	5	mL	50	mL	09/16/09	FGA



March 02, 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: 237283
SDG: 237283

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 16, 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: MWHAG20090914_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237283

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237283001

BASIS: Dry Weight

DATE COLLECTED 14-SEP-09

CLIENT ID: HZET0213S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 90.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	15.2	mg/kg	N	0.106	0.426	0.4	2	MS	BAJ	09/22/09 14:58	090922-1	903440

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903440	903439	SW846 3050B	0.518	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237283

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237283002

BASIS: Dry Weight

DATE COLLECTED 14-SEP-09

CLIENT ID: HZET0214S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	3.16	mg/kg	N	0.112	0.447	0.4	2	MS	BAJ	09/22/09 15:00	090922-1	903440

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903440	903439	SW846 3050B	0.509	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237283

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237283003

BASIS: Dry Weight

DATE COLLECTED 14-SEP-09

CLIENT ID: HZET0215S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	4.1	mg/kg	N	0.114	0.457	0.4	2	MS	BAJ	09/22/09 15:02	090922-1	903440

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903440	903439	SW846 3050B	0.505	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237283

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237283004

BASIS: Dry Weight

DATE COLLECTED 14-SEP-09

CLIENT ID: HZET0216S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	4.97	mg/kg	N	0.114	0.457	0.4	2	MS	BAJ	09/22/09 15:14	090922-1	903440

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903440	903439	SW846 3050B	0.504	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237283

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237283005

BASIS: Dry Weight

DATE COLLECTED 14-SEP-09

CLIENT ID: HZET0217S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	6.92	mg/kg	N	0.11	0.442	0.4	2	MS	BAJ	09/22/09 15:16	090922-1	903440

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903440	903439	SW846 3050B	0.518	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237283

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237283006

BASIS: Dry Weight

DATE COLLECTED 14-SEP-09

CLIENT ID: HZET0218S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 70

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	5.24	mg/kg	N	0.141	0.563	0.4	2	MS	BAJ	09/22/09 15:18	090922-1	903440

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903440	903439	SW846 3050B	0.504	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237283

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237283007

BASIS: Dry Weight

DATE COLLECTED 14-SEP-09

CLIENT ID: HZET0219S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	3.56	mg/kg	N	0.114	0.456	0.4	2	MS	BAJ	09/22/09 15:20	090922-1	903440

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903440	903439	SW846 3050B	0.503	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237283

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237283008 **BASIS:** Dry Weight **DATE COLLECTED** 14-SEP-09

CLIENT ID: HZET0220S001 **LEVEL:** Low **DATE RECEIVED** 16-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	5.64	mg/kg	N	0.0991	0.396	0.4	2	MS	BAJ	09/22/09 15:22	090922-1	903440

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903440	903439	SW846 3050B	0.512	g	50	mL	09/17/09	AXG2



September 23, 2009

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

Re: Happy Valley
Project Number: 1891614.05461
Project Name: 2009 ISRA Waste Characterization
Work Order: 237286
SDG: 237286

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 16, 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: 1891614.05461
Chain of Custody:
Enclosures

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

SSFL001 Boeing – SSFL (MWH)

Client SDG: 237286 GEL Work Order: 237286

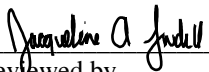
The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy—Uncertain identification

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 Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jacqueline Trudell.



Reviewed by

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 23, 2009

Contact: Ms. Sarah Von Raesfeld, MWH
Project: **2009 ISRA Waste Characterization – Outfall
008**

Client Sample ID:	ISWC0112S001	Project:	SSFL00158
Sample ID:	237286001	Client ID:	SSFL001
Matrix:	Soil		
Collect Date:	14-SEP-09 13:15		
Receive Date:	16-SEP-09		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analysis											
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>											
Americium-241 14596-10-2	U	0.129	+/-0.129	0.217		pCi/g		MXR109/17/09	1239	903722	1
Cesium-134 13967709	UI	0.00	+/-0.0612	0.0634		pCi/g					
Cesium-137 10045973	U	0.0299	+/-0.0257	0.0465	0.050	pCi/g					
Cobalt-60 10198400	U	-0.0173	+/-0.0254	0.0395		pCi/g					
Europium-152 14683239	U	-0.0843	+/-0.0883	0.110		pCi/g					
Europium-154 15585101	U	-0.0308	+/-0.0892	0.146		pCi/g					
Manganese-54 13966319	U	-0.0215	+/-0.0233	0.0381		pCi/g					
Potassium-40 13966002		22.5	+/-1.87	0.370		pCi/g					
Sodium-22 13966320	U	-0.0103	+/-0.0318	0.052		pCi/g					
Thorium-228 14274829		1.32	+/-0.120	0.0678		pCi/g					
Thorium-232 7440291		1.46	+/-0.247	0.145		pCi/g					
Uranium-235 15117961	U	0.0911	+/-0.150	0.263		pCi/g					
Uranium-238 7440611	U	1.42	+/-1.28	1.69		pCi/g					
Rad Gas Flow Proportional Counting											
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>											
Strontium-90 10098972	U	0.0108	+/-0.024	0.0436	0.050	pCi/g		MXB109/22/09	0850	903771	2
Rad Liquid Scintillation Analysis											
<i>LSC, Tritium Dist, Solid "As Received"</i>											
Tritium 10028-17-8	U	0.187	+/-0.603	1.03	1.00	pCi/g		KXK209/22/09	0925	903790	3

The following Prep 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 23, 2009

Contact: Ms. Sarah Von Raesfeld, MWH
Project: **2009 ISRA Waste Characterization – Outfall
008**

Client Sample ID: ISWC0112S001 Project: SSFL00158
Sample ID: 237286001 Client ID: SSFL001

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

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	DRS1	09/16/09	1747	903455

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 905.0 Modified	
3	EPA 906.0 Modified	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"			62.5	(25%–125%)

GEL LABORATORIES LLC

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

QC Summary

Report Date: September 23, 2009

Page 1 of 4

MWH Americas, Inc.

1340 Treat Blvd. Suite 300

Walnut Creek, California

Contact: Ms. Sarah Von Raesfeld, MWH

Workorder: 237286

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	903722										
QC1201926314	237286001 DUP										
Americium-241	U	0.129	U	0.00908	pCi/g	174			N/A MXR1	09/17/09	17:06
		+/-0.129		+/-0.107							
Cesium-134	UI	0.00	UI	0.00	pCi/g	33.8			N/A		
		+/-0.0612		+/-0.035							
Cesium-137	U	0.0299	U	0.00892	pCi/g	108			N/A		
		+/-0.0257		+/-0.0174							
Cobalt-60	U	-0.0173	U	-0.0183	pCi/g	5.34			N/A		
		+/-0.0254		+/-0.018							
Europium-152	U	-0.0843	U	-0.0205	pCi/g	122			N/A		
		+/-0.0883		+/-0.053							
Europium-154	U	-0.0308	U	-0.0139	pCi/g	75.5			N/A		
		+/-0.0892		+/-0.0593							
Manganese-54	U	-0.0215	U	0.00922	pCi/g	500			N/A		
		+/-0.0233		+/-0.0186							
Potassium-40		22.5		22.9	pCi/g	1.94		(0% - 20%)			
		+/-1.87		+/-1.89							
Sodium-22	U	-0.0103	U	-0.00386	pCi/g	90.8			N/A		
		+/-0.0318		+/-0.021							
Thorium-228		1.32		1.24	pCi/g	6.41		(0% - 20%)			
		+/-0.120		+/-0.104							
Thorium-232		1.46		1.35	pCi/g	8.06		(0% - 20%)			
		+/-0.247		+/-0.223							
Uranium-235	U	0.0911	U	0.0236	pCi/g	118			N/A		
		+/-0.150		+/-0.117							
Uranium-238	U	1.42	U	0.140	pCi/g	164			N/A		
		+/-1.28		+/-1.09							
QC1201926315	LCS										
Americium-241	16.3			14.4	pCi/g		88.2	(75%-125%)		09/17/09	12:41
				+/-1.91							
Cesium-134			U	-0.0408	pCi/g						
				+/-0.0927							
Cesium-137	5.75			5.18	pCi/g		90.2	(75%-125%)			
				+/-0.385							
Cobalt-60	6.90			6.98	pCi/g		101	(75%-125%)			
				+/-0.683							
Europium-152			U	-0.0232	pCi/g						
				+/-0.195							
Europium-154			U	0.127	pCi/g						
				+/-0.170							
Manganese-54			U	0.0391	pCi/g						

GEL LABORATORIES LLC

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QC Summary

Workorder: 237286

Page 2 of 4

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gamma Spec											
Batch	903722										
Potassium-40				+/-0.0838							
				0.963	pCi/g				MXR1	09/17/09	12:41
Sodium-22			U	+/-0.655							
				0.0463	pCi/g						
Thorium-228				+/-0.0596							
				1.14	pCi/g						
Thorium-232				+/-0.207							
				0.964	pCi/g						
Uranium-235			U	+/-0.556							
				-0.0802	pCi/g						
Uranium-238			U	+/-0.354							
				-0.504	pCi/g						
				+/-2.83							
QC1201926313	MB										
Americium-241			U	-0.000725	pCi/g					09/17/09	12:40
				+/-0.0302							
Cesium-134			U	-0.00973	pCi/g						
				+/-0.0181							
Cesium-137			U	-0.00892	pCi/g						
				+/-0.0119							
Cobalt-60			U	-0.00604	pCi/g						
				+/-0.015							
Europium-152			U	0.00814	pCi/g						
				+/-0.0319							
Europium-154			U	-0.0231	pCi/g						
				+/-0.0327							
Manganese-54			U	0.00523	pCi/g						
				+/-0.0121							
Potassium-40			U	0.0554	pCi/g						
				+/-0.187							
Sodium-22			U	-0.00702	pCi/g						
				+/-0.0115							
Thorium-228			U	0.00926	pCi/g						
				+/-0.0308							
Thorium-232			U	-0.0216	pCi/g						
				+/-0.0569							
Uranium-235			U	-0.031	pCi/g						
				+/-0.0771							
Uranium-238			U	0.025	pCi/g						
				+/-0.348							
Rad Gas Flow											
Batch	903771										
QC1201926411	237286001 DUP										
Strontium-90		U	0.0108	U	0.0107	pCi/g	0.00		N/AMXB1	09/22/09	12:37

GEL LABORATORIES LLC

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QC Summary

Workorder: 237286

Page 3 of 4

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	903771										
QC1201926413	LCS			+/-0.024							
Strontium-90	1.84			+/-0.0241							
				2.00	pCi/g		109	(75%-125%)	MXB1	09/22/09	08:51
				+/-0.117							
QC1201926410	MB										
Strontium-90			U	0.0116	pCi/g					09/22/09	12:36
				+/-0.0184							
QC1201926412	237286001	MS									
Strontium-90	1.85	U		0.0108	pCi/g		86.8	(75%-125%)		09/22/09	08:51
				+/-0.024							
				+/-0.131							
Rad Liquid Scintillation											
Batch	903790										
QC1201926483	237286001	DUP									
Tritium		U		0.187	U	0.373	pCi/g	0.00	N/A KXX2	09/22/09	15:20
				+/-0.603		+/-0.607					
QC1201926485	LCS										
Tritium	11.2					11.8	pCi/g	105	(75%-125%)	09/22/09	19:27
						+/-0.875					
QC1201926482	MB										
Tritium		U		0.402	U	0.402	pCi/g			09/22/09	13:17
				+/-0.602							
QC1201926484	237286001	MS									
Tritium	11.2	U		0.187		11.5	pCi/g	103	(75%-125%)	09/22/09	17:24
				+/-0.603		+/-0.872					

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

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QC Summary

Workorder: 237286

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.



March 02, 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: 237307
SDG: 237307

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 16, 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: MWHAG20090915_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237307

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237307001

BASIS: Dry Weight

DATE COLLECTED 15-SEP-09

CLIENT ID: HZET0221S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 98.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	4.98	mg/kg		0.0981	0.392	0.4	2	MS	PRB	09/23/09 13:56	090923-1	903719

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903719	903718	SW846 3050B	0.518	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237307

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237307002

BASIS: Dry Weight

DATE COLLECTED 15-SEP-09

CLIENT ID: HZET0222S001

LEVEL: Low

DATE RECEIVED 16-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	4.17	mg/kg		0.0981	0.393	0.4	2	MS	PRB	09/23/09 14:05	090923-1	903719

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903719	903718	SW846 3050B	0.516	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237307

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237307003

BASIS: Dry Weight

DATE COLLECTED 15-SEP-09

CLIENT ID: HZET0223S001

LEVEL: Low

DATE RECEIVED 16-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	35.9	mg/kg		0.1	0.401	0.4	2	MS	PRB	09/23/09 14:11	090923-1	903719

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903719	903718	SW846 3050B	0.506	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237307

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237307004

BASIS: Dry Weight

DATE COLLECTED 15-SEP-09

CLIENT ID: HZET0224S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 98.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	6.51	mg/kg		0.1	0.401	0.4	2	MS	PRB	09/23/09 14:13	090923-1	903719

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903719	903718	SW846 3050B	0.508	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237307

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237307005

BASIS: Dry Weight

DATE COLLECTED 15-SEP-09

CLIENT ID: HZET0225S001

LEVEL: Low

DATE RECEIVED 16-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	5.33	mg/kg		0.0973	0.389	0.4	2	MS	PRB	09/23/09 14:15	090923-1	903719

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903719	903718	SW846 3050B	0.522	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237307

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237307006

BASIS: Dry Weight

DATE COLLECTED 15-SEP-09

CLIENT ID: HZET0226S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 97.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	4.97	mg/kg		0.0988	0.395	0.4	2	MS	PRB	09/23/09 14:17	090923-1	903719

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903719	903718	SW846 3050B	0.519	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237307

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237307007

BASIS: Dry Weight

DATE COLLECTED 15-SEP-09

CLIENT ID: HZET0227S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 97

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	6.57	mg/kg		0.101	0.404	0.4	2	MS	PRB	09/23/09 14:19	090923-1	903719

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903719	903718	SW846 3050B	0.51	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237307

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237307008

BASIS: Dry Weight

DATE COLLECTED 15-SEP-09

CLIENT ID: HZET0228S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 93.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	4.86	mg/kg		0.103	0.414	0.4	2	MS	PRB	09/23/09 14:21	090923-1	903719

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903719	903718	SW846 3050B	0.515	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237307

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237307009

BASIS: Dry Weight

DATE COLLECTED 15-SEP-09

CLIENT ID: HZET0229S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 93.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7439-92-1	Lead	7.38	mg/kg		0.103	0.412	0.4	2	MS	PRB	09/23/09 14:23	090923-1	903719

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903719	903718	SW846 3050B	0.518	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237307

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237307010

BASIS: Dry Weight

DATE COLLECTED 15-SEP-09

CLIENT ID: HZET0302S001

LEVEL: Low

DATE RECEIVED 16-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	17.8	mg/kg		0.331	1	0.2	10	MS	PRB	09/23/09 14:30	090923-1	903719
7439-92-1	Lead	11	mg/kg		0.1	0.402	0.4	2	MS	PRB	09/23/09 14:25	090923-1	903719

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903719	903718	SW846 3050B	0.52	g	50	mL	09/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237307

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237307011

BASIS: Dry Weight

DATE COLLECTED 15-SEP-09

CLIENT ID: HZET0303S001

LEVEL: Low

DATE RECEIVED 16-SEP-09

MATRIX: SOIL

%SOLIDS: 93.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	40	mg/kg		0.339	1.03	0.2	10	MS	PRB	09/23/09 14:37	090923-1	903719
7439-92-1	Lead	20.2	mg/kg		0.103	0.411	0.4	2	MS	PRB	09/23/09 14:27	090923-1	903719

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
903719	903718	SW846 3050B	0.523	g	50	mL	09/17/09	AXG2



September 25, 2009

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

Re: Happy Valley
Project Number: 1891614.05461
Project Name: 2009 ISRA Waste Characterizati
Work Order: 237504
SDG: 237504H

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 16, 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: 1891614.05461
Chain of Custody:
Enclosures

Chain of Custody and Supporting Documentation



Client: <u>SSFL</u>		SDG/ARCOC/Work Order: <u>237283</u> JT 9/18/09	
Received By: <u>Ricky Albee</u>		Date Received: <u>9/16/09</u>	
Suspected Hazard Information		Yes	No
COC/Samples marked as radioactive?			<input checked="" type="checkbox"/>
Classified Radioactive II or III by RSO?			<input checked="" type="checkbox"/>
COC/Samples marked containing PCBs?			<input checked="" type="checkbox"/>
Shipped as a DOT Hazardous?			<input checked="" type="checkbox"/>
Samples identified as Foreign Soil?			<input checked="" type="checkbox"/>

*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.

Maximum Counts Observed*: 40 cpm

Hazard Class Shipped: UN#:

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>3 ice bags</u> blue ice dry ice none other (describe)
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: FedEx 9457 3161 4160

PM (or PMA) review: Initials

JT

Date

9/16/09

Subject: ISWC0112 add-on
From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com>
Date: Fri, 18 Sep 2009 11:47:11 -0600
To: Jackie Trudell <jacqueline.trudell@gel.com>
CC: Alexander Fischl <Alexander.Fischl@us.mwhglobal.com>

Hi Jackie,

Please analyze ISWC0112S001 (237286001) for SVOCs on a 5 day TAT.

We would like the attached SVOC list reported instead of the usual RFI SVOC list.

Since this is a waste characterization sample, the final report only needs to be a Level II data package and EDD. We will not need the data uploaded to bedms. Please copy Tom Venable (thomas.c.venable2@boeing.com) and Tom Armenoff (thomas.c.armenoff@boeing.com) when you send the preliminary data and EDD. Also – this will be direct bill to Boeing.

The project name should be 2009 ISRA Waste Characterization – Outfall 008. And the site is Happy Valley.

Thanks,
Sarah



MWH

BUILDING A BETTER WORLD

Sarah Von Raesfeld
Environmental Chemist
MWH Americas, Inc.
2121 N. California Blvd.
Suite 600
Walnut Creek, California 94596

Telephone: 925 627 4500
Direct Line: 925 627 4654
Facsimile: 925 627 4501

WC SVOCs.xls	Content-Description: WC SVOCs.xls
	Content-Type: application/vnd.ms-excel
	Content-Encoding: base64

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

SSFL001 Boeing – SSFL (MWH)

Client SDG: 237504H GEL Work Order: 237504

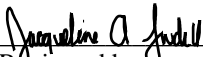
The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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 Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jacqueline Trudell.


Reviewed by _____

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 24, 2009

Contact: Ms. Sarah Von Raesfeld, MWH
Project: **2009 ISRA Waste Characterization – Outfall
008**

Client Sample ID: ISWC0112S001
Sample ID: 237504001
Matrix: Soil
Collect Date: 14-SEP-09 13:15
Receive Date: 16-SEP-09
Collector: Client

Project: SSFL00162
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
<i>8270C/3550B App 9 BNA Soil (FULL List) "As Received"</i>										
1,2,4-Trichlorobenzene 120821	U	ND	66.6	333	ug/kg	1	AGS1 09/23/09	2043	905147	1
1,2-Dichlorobenzene 95501	U	ND	66.6	333	ug/kg	1				
1,2-Diphenylhydrazine/Azobenzene 122667	U	ND	66.6	333	ug/kg	1				
1,3-Dichlorobenzene 541731	U	ND	66.6	333	ug/kg	1				
1,4-Dichlorobenzene 106467	U	ND	66.6	333	ug/kg	1				
2,4,5-Trichlorophenol 95954	U	ND	66.6	333	ug/kg	1				
2,4,6-Trichlorophenol 88062	U	ND	66.6	333	ug/kg	1				
2,4-Dichlorophenol 120832	U	ND	66.6	333	ug/kg	1				
2,4-Dimethylphenol 105679	U	ND	117	333	ug/kg	1				
2,4-Dinitrophenol 51285	U	ND	127	666	ug/kg	1				
2,4-Dinitrotoluene 121142	U	ND	33.3	333	ug/kg	1				
2,6-Dinitrotoluene 606202	U	ND	33.3	333	ug/kg	1				
2-Chloronaphthalene 91587	U	ND	11.0	33.3	ug/kg	1				
2-Chlorophenol 95578	U	ND	66.6	333	ug/kg	1				
4,6-Dinitro-2-methylphenol 534521	U	ND	66.6	333	ug/kg	1				
2-Methylnaphthalene 91576	U	ND	6.66	33.3	ug/kg	1				
2-Nitrophenol 88755	U	ND	66.6	333	ug/kg	1				
3,3-Dichlorobenzidine 91941	U	ND	99.9	333	ug/kg	1				

GEL LABORATORIES LLC

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Certificate of Analysis

Company : MWH Americas, Inc.
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Walnut Creek, California 94597

Report Date: September 24, 2009

Contact: Ms. Sarah Von Raesfeld, MWH
Project: **2009 ISRA Waste Characterization – Outfall
008**

Client Sample ID: ISWC0112S001
Sample ID: 237504001
Project: SSFL00162
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
<i>8270C/3550B App 9 BNA Soil (FULL List) "As Received"</i>										
4-Bromophenyl phenyl ether 101553	U	ND	66.6	333	ug/kg	1				
4-Chloro-3-methylphenol 59507	U	ND	66.6	333	ug/kg	1				
4-Chloroaniline 106478	U	ND	66.6	333	ug/kg	1				
4-Chlorophenyl-phenylether 7005723	U	ND	66.6	333	ug/kg	1				
4-Nitrophenol 100027	U	ND	110	333	ug/kg	1				
Acenaphthene 83329	U	ND	11.0	33.3	ug/kg	1				
Acenaphthylene 208968	U	ND	9.99	33.3	ug/kg	1				
Aniline 62533	U	ND	99.9	333	ug/kg	1				
Anthracene 120127	U	ND	6.66	33.3	ug/kg	1				
Benzidine 92875	U	ND	99.9	333	ug/kg	1				
Benzo(a)anthracene 56553	U	ND	9.99	33.3	ug/kg	1				
Benzo(a)pyrene 50328	U	ND	9.99	33.3	ug/kg	1				
Benzo(b)fluoranthene 205992	U	ND	9.99	33.3	ug/kg	1				
Benzo(ghi)perylene 191242	U	ND	9.99	33.3	ug/kg	1				
Benzo(k)fluoranthene 207089	U	ND	9.99	33.3	ug/kg	1				
Benzoic acid 65850	U	ND	167	666	ug/kg	1				
Benzyl alcohol 100516	U	ND	99.9	333	ug/kg	1				
Butyl benzyl phthalate 85687	U	ND	66.6	333	ug/kg	1				
Chrysene 218019	U	ND	9.99	33.3	ug/kg	1				
Di-n-butylphthalate 84742	U	ND	66.6	333	ug/kg	1				
Di-n-octyl-phthalate 117840	U	ND	66.6	333	ug/kg	1				

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Certificate of Analysis

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

Report Date: September 24, 2009

Contact: Ms. Sarah Von Raesfeld, MWH
Project: **2009 ISRA Waste Characterization – Outfall
008**

Client Sample ID: ISWC0112S001
Sample ID: 237504001
Project: SSFL00162
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
<i>8270C/3550B App 9 BNA Soil (FULL List) "As Received"</i>											
Dibenzo(a,h)anthracene 53703	U	ND	9.99	33.3	ug/kg	1					
Dibenzofuran 132649	U	ND	66.6	333	ug/kg	1					
Diethylphthalate 84662	U	ND	66.6	333	ug/kg	1					
Dimethylphthalate 131113	U	ND	66.6	333	ug/kg	1					
Diphenylamine 122394	U	ND	66.6	333	ug/kg	1					
Fluoranthene 206440	U	ND	9.99	33.3	ug/kg	1					
Fluorene 86737	U	ND	9.99	33.3	ug/kg	1					
Hexachlorobenzene 118741	U	ND	66.6	333	ug/kg	1					
Hexachlorobutadiene 87683	U	ND	66.6	333	ug/kg	1					
Hexachlorocyclopentadiene 77474	U	ND	66.6	333	ug/kg	1					
Hexachloroethane 67721	U	ND	66.6	333	ug/kg	1					
Indeno(1,2,3-cd)pyrene 193395	U	ND	9.99	33.3	ug/kg	1					
Isophorone 78591	U	ND	66.6	333	ug/kg	1					
n-Nitrosodimethylamine 62759	U	ND	66.6	333	ug/kg	1					
n-Nitroso-di-n-propylamine 621647	U	ND	66.6	333	ug/kg	1					
Naphthalene 91203	U	ND	9.99	33.3	ug/kg	1					
Nitrobenzene 98953	U	ND	66.6	333	ug/kg	1					
Pentachlorophenol 87865	U	ND	83.3	333	ug/kg	1					
Phenanthrene 85018	U	ND	9.99	33.3	ug/kg	1					
Phenol 108952	U	ND	66.6	333	ug/kg	1					
Pyrene 129000	J	10.8	9.99	33.3	ug/kg	1					

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 24, 2009

Contact: Ms. Sarah Von Raesfeld, MWH
Project: **2009 ISRA Waste Characterization – Outfall
008**

Client Sample ID: ISWC0112S001
Sample ID: 237504001
Project: SSFL00162
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
<i>8270C/3550B App 9 BNA Soil (FULL List) "As Received"</i>											
Bis(2-chloroethoxy)methane 111911	U	ND	66.6	333	ug/kg	1					
Bis(2-chloroethyl)ether 111444	U	ND	66.6	333	ug/kg	1					
Bis(2-chloroisopropyl)ether 108601	U	ND	66.6	333	ug/kg	1					
bis(2-Ethylhexyl)phthalate 117817	J	83.7	66.6	333	ug/kg	1					
4-Methylphenol 65794969	U	ND	99.9	333	ug/kg	1					
3-Nitroaniline 99092	U	ND	66.6	333	ug/kg	1					
2-Methylphenol 95487	U	ND	66.6	333	ug/kg	1					
2-Nitroaniline 88744	U	ND	66.6	333	ug/kg	1					
4-Nitroaniline 100016	U	ND	99.9	333	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3550B	3550B BNA Soil Prep-8270C Appendix 9 Fed	RXH3	09/23/09	1111	905145

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8270C	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	8270C/3550B App 9 BNA Soil (FULL List) "As Received"	1240 ug/kg	1670	74.2	(36%–100%)
Nitrobenzene-d5	8270C/3550B App 9 BNA Soil (FULL List) "As Received"	1080 ug/kg	1670	64.7	(34%–104%)
p-Terphenyl-d14	8270C/3550B App 9 BNA Soil (FULL List) "As Received"	1580 ug/kg	1670	95.1	(40%–124%)
2,4,6-Tribromophenol	8270C/3550B App 9 BNA Soil (FULL List) "As Received"	2670 ug/kg	3330	80.1	(37%–106%)
2-Fluorophenol	8270C/3550B App 9 BNA Soil (FULL List)	2290 ug/kg	3330	68.9	(35%–96%)

GEL LABORATORIES LLC

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

QC Summary

Report Date: September 24, 2009

Page 1 of 9

MWH Americas, Inc.

1340 Treat Blvd. Suite 300

Walnut Creek, California

Contact: Ms. Sarah Von Raesfeld, MWH

Workorder: 237504

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Semi-Volatiles-GC/MS									
Batch	905147								
QC1201929888	LCS								
1,2,4-Trichlorobenzene	1670		1300	ug/kg		77.8	(36%-109%)	AGS1	09/23/09 19:02
1,2-Dichlorobenzene	1670		1180	ug/kg		70.8	(34%-108%)		
1,2-Diphenylhydrazine/Azobenzene	1670		948	ug/kg		56.9	(40%-119%)		
1,3-Dichlorobenzene	1670		1160	ug/kg		69.4	(33%-103%)		
1,4-Dichlorobenzene	1670		1150	ug/kg		69	(34%-103%)		
2,4,5-Trichlorophenol	1670		1290	ug/kg		77.2	(44%-110%)		
2,4,6-Trichlorophenol	1670		1420	ug/kg		85.5	(46%-107%)		
2,4-Dichlorophenol	1670		1400	ug/kg		83.8	(45%-109%)		
2,4-Dimethylphenol	1670		1210	ug/kg		72.3	(35%-114%)		
2,4-Dinitrophenol	1670		1280	ug/kg		77	(32%-114%)		
2,4-Dinitrotoluene	1670		1390	ug/kg		83.3	(49%-107%)		
2,6-Dinitrotoluene	1670		1270	ug/kg		76.4	(47%-103%)		
2-Chloronaphthalene	1670		1210	ug/kg		72.8	(44%-104%)		
2-Chlorophenol	1670		1290	ug/kg		77.4	(40%-105%)		
2-Methylnaphthalene	1670		1280	ug/kg		76.9	(40%-106%)		
2-Methylphenol	1670		1160	ug/kg		69.6	(39%-111%)		
2-Nitroaniline	1670		1000	ug/kg		60.2	(44%-113%)		
2-Nitrophenol	1670		1430	ug/kg		85.5	(35%-112%)		
3,3-Dichlorobenzidine	1670		1160	ug/kg		69.6	(45%-98%)		
3-Nitroaniline	1670		1310	ug/kg		78.6	(48%-113%)		
4,6-Dinitro-2-methylphenol	1670		1280	ug/kg		76.8	(35%-114%)		
4-Bromophenyl phenyl ether	1670		1470	ug/kg		88	(45%-112%)		
4-Chloro-3-methylphenol	1670		1320	ug/kg		79.3	(46%-114%)		
4-Chloroaniline	1670		1210	ug/kg		72.4	(30%-122%)		
4-Chlorophenyl-phenylether	1670		1360	ug/kg		81.7	(50%-109%)		
4-Methylphenol	1670		1360	ug/kg		81.4	(43%-118%)		
4-Nitroaniline	1670		1380	ug/kg		82.5	(44%-139%)		
4-Nitrophenol	1670		1360	ug/kg		81.3	(33%-110%)		
Acenaphthene	1670		1180	ug/kg		70.6	(40%-105%)		
Acenaphthylene	1670		1270	ug/kg		76.2	(43%-104%)		
Aniline	1670		1060	ug/kg		63.7	(30%-121%)		
Anthracene	1670		1220	ug/kg		73.2	(46%-106%)		
Benzidine	3330		1740	ug/kg		52.1	(23%-105%)		
Benzo(a)anthracene	1670		1350	ug/kg		81.3	(48%-105%)		
Benzo(a)pyrene	1670		1400	ug/kg		84.2	(49%-112%)		
Benzo(b)fluoranthene	1670		1440	ug/kg		86.3	(46%-111%)		

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QC Summary

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatiles-GC/MS										
Batch	905147									
Benzo(ghi)perylene	1670		1400	ug/kg		83.8	(42%-128%)			
Benzo(k)fluoranthene	1670		1300	ug/kg		78.1	(46%-114%)	AGS1	09/23/09	19:02
Benzoic acid	1670		1340	ug/kg		80.1	(27%-137%)			
Benzyl alcohol	1670		1150	ug/kg		69.2	(31%-100%)			
Bis(2-chloroethoxy)methane	1670		1040	ug/kg		62.2	(40%-109%)			
Bis(2-chloroethyl)ether	1670		971	ug/kg		58.2	(37%-106%)			
Bis(2-chloroisopropyl)ether	1670		847	ug/kg		50.8	(34%-120%)			
Butyl benzyl phthalate	1670		1470	ug/kg		87.9	(49%-115%)			
Chrysene	1670		1310	ug/kg		78.9	(48%-105%)			
Di-n-butylphthalate	1670		1430	ug/kg		85.7	(52%-115%)			
Di-n-octyl-phthalate	1670		1550	ug/kg		93.3	(39%-123%)			
Dibenzo(a,h)anthracene	1670		1330	ug/kg		79.8	(44%-131%)			
Dibenzofuran	1670		1290	ug/kg		77.5	(47%-112%)			
Diethylphthalate	1670		1430	ug/kg		85.8	(50%-108%)			
Dimethylphthalate	1670		1390	ug/kg		83.7	(47%-104%)			
Diphenylamine	1670		1300	ug/kg		78.2	(46%-111%)			
Fluoranthene	1670		1340	ug/kg		80.3	(50%-115%)			
Fluorene	1670		1300	ug/kg		77.9	(49%-102%)			
Hexachlorobenzene	1670		1190	ug/kg		71.2	(44%-115%)			
Hexachlorobutadiene	1670		1210	ug/kg		72.9	(37%-111%)			
Hexachlorocyclopentadiene	1670		1550	ug/kg		92.9	(24%-135%)			
Hexachloroethane	1670		1060	ug/kg		63.6	(34%-105%)			
Indeno(1,2,3-cd)pyrene	1670		1430	ug/kg		85.6	(45%-128%)			
Isophorone	1670		1130	ug/kg		67.9	(41%-108%)			
Naphthalene	1670		1220	ug/kg		73.1	(35%-105%)			
Nitrobenzene	1670		1080	ug/kg		64.7	(37%-110%)			
Pentachlorophenol	1670		1070	ug/kg		64.4	(38%-116%)			
Phenanthrene	1670		1250	ug/kg		74.9	(45%-107%)			
Phenol	1670		1160	ug/kg		69.5	(37%-104%)			
Pyrene	1670		1340	ug/kg		80.3	(43%-108%)			
bis(2-Ethylhexyl)phthalate	1670		1450	ug/kg		87.2	(50%-117%)			
n-Nitroso-di-n-propylamine	1670		1060	ug/kg		63.8	(36%-110%)			
n-Nitrosodimethylamine	1670		972	ug/kg		58.3	(31%-95%)			
**2,4,6-Tribromophenol	3330		2860	ug/kg		85.9	(37%-106%)			
**2-Fluorobiphenyl	1670		1320	ug/kg		79.2	(36%-100%)			
**2-Fluorophenol	3330		2470	ug/kg		74.1	(35%-96%)			
**Nitrobenzene-d5	1670		1200	ug/kg		72.1	(34%-104%)			
**Phenol-d5	3330		2340	ug/kg		70.2	(36%-96%)			
**p-Terphenyl-d14	1670		1490	ug/kg		89.3	(40%-124%)			
QC1201929887	MB									
1,2,4-Trichlorobenzene		U	ND	ug/kg						09/23/09 18:42
1,2-Dichlorobenzene		U	ND	ug/kg						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatiles-GC/MS											
Batch	905147										
1,2-Diphenylhydrazine/Azobenzene			U	ND	ug/kg						
1,3-Dichlorobenzene			U	ND	ug/kg				AGS1	09/23/09	18:42
1,4-Dichlorobenzene			U	ND	ug/kg						
2,4,5-Trichlorophenol			U	ND	ug/kg						
2,4,6-Trichlorophenol			U	ND	ug/kg						
2,4-Dichlorophenol			U	ND	ug/kg						
2,4-Dimethylphenol			U	ND	ug/kg						
2,4-Dinitrophenol			U	ND	ug/kg						
2,4-Dinitrotoluene			U	ND	ug/kg						
2,6-Dinitrotoluene			U	ND	ug/kg						
2-Chloronaphthalene			U	ND	ug/kg						
2-Chlorophenol			U	ND	ug/kg						
2-Methylnaphthalene			U	ND	ug/kg						
2-Methylphenol			U	ND	ug/kg						
2-Nitroaniline			U	ND	ug/kg						
2-Nitrophenol			U	ND	ug/kg						
3,3-Dichlorobenzidine			U	ND	ug/kg						
3-Nitroaniline			U	ND	ug/kg						
4,6-Dinitro-2-methylphenol			U	ND	ug/kg						
4-Bromophenyl phenyl ether			U	ND	ug/kg						
4-Chloro-3-methylphenol			U	ND	ug/kg						
4-Chloroaniline			U	ND	ug/kg						
4-Chlorophenyl-phenylether			U	ND	ug/kg						
4-Methylphenol			U	ND	ug/kg						
4-Nitroaniline			U	ND	ug/kg						
4-Nitrophenol			U	ND	ug/kg						
Acenaphthene			U	ND	ug/kg						
Acenaphthylene			U	ND	ug/kg						
Aniline			U	ND	ug/kg						
Anthracene			U	ND	ug/kg						
Benzidine			U	ND	ug/kg						
Benzo(a)anthracene			U	ND	ug/kg						
Benzo(a)pyrene			U	ND	ug/kg						
Benzo(b)fluoranthene			U	ND	ug/kg						
Benzo(ghi)perylene			U	ND	ug/kg						
Benzo(k)fluoranthene			U	ND	ug/kg						
Benzoic acid			U	ND	ug/kg						
Benzyl alcohol			U	ND	ug/kg						
Bis(2-chloroethoxy)methane			U	ND	ug/kg						
Bis(2-chloroethyl)ether			U	ND	ug/kg						
Bis(2-chloroisopropyl)ether			U	ND	ug/kg						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatiles-GC/MS											
Batch	905147										
Butyl benzyl phthalate			U	ND	ug/kg						
Chrysene			U	ND	ug/kg				AGS1	09/23/09	18:42
Di-n-butylphthalate			U	ND	ug/kg						
Di-n-octyl-phthalate			U	ND	ug/kg						
Dibenzo(a,h)anthracene			U	ND	ug/kg						
Dibenzofuran			U	ND	ug/kg						
Diethylphthalate			U	ND	ug/kg						
Dimethylphthalate			U	ND	ug/kg						
Diphenylamine			U	ND	ug/kg						
Fluoranthene			U	ND	ug/kg						
Fluorene			U	ND	ug/kg						
Hexachlorobenzene			U	ND	ug/kg						
Hexachlorobutadiene			U	ND	ug/kg						
Hexachlorocyclopentadiene			U	ND	ug/kg						
Hexachloroethane			U	ND	ug/kg						
Indeno(1,2,3-cd)pyrene			U	ND	ug/kg						
Isophorone			U	ND	ug/kg						
Naphthalene			U	ND	ug/kg						
Nitrobenzene			U	ND	ug/kg						
Pentachlorophenol			U	ND	ug/kg						
Phenanthrene			U	ND	ug/kg						
Phenol			U	ND	ug/kg						
Pyrene			U	ND	ug/kg						
bis(2-Ethylhexyl)phthalate			U	ND	ug/kg						
n-Nitroso-di-n-propylamine			U	ND	ug/kg						
n-Nitrosodimethylamine			U	ND	ug/kg						
**2,4,6-Tribromophenol	3330			2170	ug/kg		65.1	(37%-106%)			
**2-Fluorobiphenyl	1670			1140	ug/kg		68.3	(36%-100%)			
**2-Fluorophenol	3330			2120	ug/kg		63.6	(35%-96%)			
**Nitrobenzene-d5	1670			994	ug/kg		59.6	(34%-104%)			
**Phenol-d5	3330			2000	ug/kg		60.1	(36%-96%)			
**p-Terphenyl-d14	1670			1320	ug/kg		79.3	(40%-124%)			
QC1201929889 237504001 MS											
1,2,4-Trichlorobenzene	1660	U	ND	1180	ug/kg		71.3	(31%-105%)		09/23/09	21:03
1,2-Dichlorobenzene	1660	U	ND	1020	ug/kg		61.7	(32%-102%)			
1,2-Diphenylhydrazine/Azobenzene	1660	U	ND	915	ug/kg		55.1	(37%-118%)			
1,3-Dichlorobenzene	1660	U	ND	1000	ug/kg		60.2	(31%-97%)			
1,4-Dichlorobenzene	1660	U	ND	999	ug/kg		60.2	(33%-95%)			
2,4,5-Trichlorophenol	1660	U	ND	1310	ug/kg		79.1	(37%-116%)			
2,4,6-Trichlorophenol	1660	U	ND	1380	ug/kg		83.2	(37%-108%)			
2,4-Dichlorophenol	1660	U	ND	1360	ug/kg		82	(38%-110%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatiles-GC/MS											
Batch	905147										
2,4-Dimethylphenol	1660	U	ND	1130	ug/kg		68.1	(32%-115%)			
2,4-Dinitrophenol	1660	U	ND	1160	ug/kg		69.9	(25%-104%)	AGS1	09/23/09	21:03
2,4-Dinitrotoluene	1660	U	ND	1390	ug/kg		83.5	(42%-107%)			
2,6-Dinitrotoluene	1660	U	ND	1260	ug/kg		76.1	(41%-103%)			
2-Chloronaphthalene	1660	U	ND	1170	ug/kg		70.3	(37%-103%)			
2-Chlorophenol	1660	U	ND	1200	ug/kg		72	(33%-106%)			
2-Methylnaphthalene	1660	U	ND	1220	ug/kg		73.4	(32%-110%)			
2-Methylphenol	1660	U	ND	1090	ug/kg		65.8	(31%-119%)			
2-Nitroaniline	1660	U	ND	1010	ug/kg		61	(36%-115%)			
2-Nitrophenol	1660	U	ND	1330	ug/kg		79.9	(32%-108%)			
3,3-Dichlorobenzidine	1660	U	ND	1200	ug/kg		72	(35%-106%)			
3-Nitroaniline	1660	U	ND	1330	ug/kg		79.9	(39%-117%)			
4,6-Dinitro-2-methylphenol	1660	U	ND	1150	ug/kg		69.5	(19%-118%)			
4-Bromophenyl phenyl ether	1660	U	ND	1440	ug/kg		86.9	(39%-112%)			
4-Chloro-3-methylphenol	1660	U	ND	1320	ug/kg		79.6	(38%-119%)			
4-Chloroaniline	1660	U	ND	1180	ug/kg		71.3	(29%-123%)			
4-Chlorophenyl-phenylether	1660	U	ND	1360	ug/kg		81.7	(42%-111%)			
4-Methylphenol	1660	U	ND	1310	ug/kg		79	(35%-125%)			
4-Nitroaniline	1660	U	ND	1410	ug/kg		84.9	(35%-139%)			
4-Nitrophenol	1660	U	ND	1390	ug/kg		83.6	(24%-120%)			
Acenaphthene	1660	U	ND	1140	ug/kg		68.9	(39%-100%)			
Acenaphthylene	1660	U	ND	1230	ug/kg		73.9	(41%-103%)			
Aniline	1660	U	ND	948	ug/kg		57.1	(34%-111%)			
Anthracene	1660	U	ND	1210	ug/kg		72.7	(38%-112%)			
Benzidine	3320	U	ND	680	ug/kg		20.5	(16%-124%)			
Benzo(a)anthracene	1660	U	ND	1310	ug/kg		79.1	(39%-110%)			
Benzo(a)pyrene	1660	U	ND	1370	ug/kg		82.5	(40%-115%)			
Benzo(b)fluoranthene	1660	U	ND	1400	ug/kg		84.5	(38%-117%)			
Benzo(ghi)perylene	1660	U	ND	1370	ug/kg		82.2	(28%-119%)			
Benzo(k)fluoranthene	1660	U	ND	1240	ug/kg		74.5	(39%-120%)			
Benzoic acid	1660	U	ND	996	ug/kg		60	(18%-134%)			
Benzyl alcohol	1660	U	ND	1090	ug/kg		65.9	(17%-120%)			
Bis(2-chloroethoxy)methane	1660	U	ND	983	ug/kg		59.2	(35%-108%)			
Bis(2-chloroethyl)ether	1660	U	ND	883	ug/kg		53.1	(34%-101%)			
Bis(2-chloroisopropyl)ether	1660	U	ND	778	ug/kg		46.8	(32%-113%)			
Butyl benzyl phthalate	1660	U	ND	1400	ug/kg		84.6	(39%-126%)			
Chrysene	1660	U	ND	1300	ug/kg		78.5	(39%-109%)			
Di-n-butylphthalate	1660	U	ND	1430	ug/kg		86.3	(42%-119%)			
Di-n-octyl-phthalate	1660	U	ND	1490	ug/kg		90	(30%-147%)			
Dibenzo(a,h)anthracene	1660	U	ND	1330	ug/kg		80.2	(32%-124%)			
Dibenzofuran	1660	U	ND	1280	ug/kg		76.9	(40%-114%)			
				1440							

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatiles-GC/MS											
Batch	905147										
Diethylphthalate	1660	U	ND		ug/kg		86.8	(43%-110%)			
Dimethylphthalate	1660	U	ND	1380	ug/kg		83.4	(41%-105%)	AGS1	09/23/09	21:03
Diphenylamine	1660	U	ND	1260	ug/kg		76.1	(41%-112%)			
Fluoranthene	1660	U	ND	1350	ug/kg		81.4	(38%-119%)			
Fluorene	1660	U	ND	1290	ug/kg		77.5	(48%-99%)			
Hexachlorobenzene	1660	U	ND	1170	ug/kg		70.3	(38%-113%)			
Hexachlorobutadiene	1660	U	ND	1080	ug/kg		64.9	(31%-109%)			
Hexachlorocyclopentadiene	1660	U	ND	1200	ug/kg		72.1	(21%-122%)			
Hexachloroethane	1660	U	ND	897	ug/kg		54	(30%-100%)			
Indeno(1,2,3-cd)pyrene	1660	U	ND	1400	ug/kg		84.2	(32%-120%)			
Isophorone	1660	U	ND	1070	ug/kg		64.6	(34%-110%)			
Naphthalene	1660	U	ND	1130	ug/kg		68.2	(31%-105%)			
Nitrobenzene	1660	U	ND	1010	ug/kg		60.9	(33%-108%)			
Pentachlorophenol	1660	U	ND	1070	ug/kg		64.6	(26%-121%)			
Phenanthrene	1660	U	ND	1250	ug/kg		75.5	(38%-110%)			
Phenol	1660	U	ND	1090	ug/kg		65.3	(32%-105%)			
Pyrene	1660	J	10.8	1260	ug/kg		75.2	(34%-120%)			
bis(2-Ethylhexyl)phthalate	1660	J	83.7	1400	ug/kg		79.5	(40%-125%)			
n-Nitroso-di-n-propylamine	1660	U	ND	1000	ug/kg		60.3	(31%-109%)			
n-Nitrosodimethylamine	1660	U	ND	887	ug/kg		53.4	(32%-90%)			
**2,4,6-Tribromophenol	3320		2670	2990	ug/kg		90.2	(37%-106%)			
**2-Fluorobiphenyl	1660		1240	1280	ug/kg		77	(36%-100%)			
**2-Fluorophenol	3320		2290	2280	ug/kg		68.7	(35%-96%)			
**Nitrobenzene-d5	1660		1080	1120	ug/kg		67.2	(34%-104%)			
**Phenol-d5	3320		2220	2200	ug/kg		66.1	(36%-96%)			
**p-Terphenyl-d14	1660		1580	1440	ug/kg		86.4	(40%-124%)			
QC1201929890 237504001 MSD											
1,2,4-Trichlorobenzene	1660	U	ND	1200	ug/kg	1.68	72.7	(0%-30%)		09/23/09	21:23
1,2-Dichlorobenzene	1660	U	ND	1040	ug/kg	1.41	62.8	(0%-30%)			
1,2-Diphenylhydrazine/Azobenzene	1660	U	ND	916	ug/kg	0.185	55.3	(0%-30%)			
1,3-Dichlorobenzene	1660	U	ND	992	ug/kg	0.812	59.9	(0%-30%)			
1,4-Dichlorobenzene	1660	U	ND	1020	ug/kg	1.55	61.3	(0%-30%)			
2,4,5-Trichlorophenol	1660	U	ND	1260	ug/kg	4.19	76	(0%-30%)			
2,4,6-Trichlorophenol	1660	U	ND	1400	ug/kg	1.47	84.6	(0%-30%)			
2,4-Dichlorophenol	1660	U	ND	1380	ug/kg	1.30	83.3	(0%-30%)			
2,4-Dimethylphenol	1660	U	ND	1150	ug/kg	2.00	69.7	(0%-30%)			
2,4-Dinitrophenol	1660	U	ND	1150	ug/kg	1.22	69.3	(0%-30%)			
2,4-Dinitrotoluene	1660	U	ND	1360	ug/kg	1.80	82.2	(0%-30%)			
2,6-Dinitrotoluene	1660	U	ND	1250	ug/kg	1.01	75.6	(0%-30%)			
2-Chloronaphthalene	1660	U	ND	1170	ug/kg	0.143	70.6	(0%-30%)			
2-Chlorophenol	1660	U	ND	1220	ug/kg	2.14	73.7	(0%-30%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatiles-GC/MS											
Batch	905147										
2-Methylnaphthalene	1660	U	ND	1220	ug/kg	0.247	73.8	(0%-30%)			
2-Methylphenol	1660	U	ND	1110	ug/kg	1.39	66.9	(0%-30%)	AGS1	09/23/09	21:23
2-Nitroaniline	1660	U	ND	996	ug/kg	1.70	60.2	(0%-30%)			
2-Nitrophenol	1660	U	ND	1360	ug/kg	2.41	82.1	(0%-30%)			
3,3-Dichlorobenzidine	1660	U	ND	1190	ug/kg	0.367	71.9	(0%-30%)			
3-Nitroaniline	1660	U	ND	1300	ug/kg	1.97	78.5	(0%-30%)			
4,6-Dinitro-2-methylphenol	1660	U	ND	1160	ug/kg	0.214	69.8	(0%-30%)			
4-Bromophenyl phenyl ether	1660	U	ND	1430	ug/kg	1.16	86.1	(0%-30%)			
4-Chloro-3-methylphenol	1660	U	ND	1310	ug/kg	0.723	79.3	(0%-30%)			
4-Chloroaniline	1660	U	ND	1190	ug/kg	0.839	72.1	(0%-30%)			
4-Chlorophenyl-phenylether	1660	U	ND	1330	ug/kg	1.99	80.3	(0%-30%)			
4-Methylphenol	1660	U	ND	1340	ug/kg	2.11	80.9	(0%-30%)			
4-Nitroaniline	1660	U	ND	1360	ug/kg	3.70	82	(0%-30%)			
4-Nitrophenol	1660	U	ND	1330	ug/kg	4.68	80	(0%-30%)			
Acenaphthene	1660	U	ND	1130	ug/kg	1.57	68	(0%-30%)			
Acenaphthylene	1660	U	ND	1220	ug/kg	0.601	73.7	(0%-30%)			
Aniline	1660	U	ND	975	ug/kg	2.82	58.9	(0%-30%)			
Anthracene	1660	U	ND	1170	ug/kg	3.05	70.7	(0%-30%)			
Benzidine	3310	U	ND	831	ug/kg	19.9	25.1	(0%-30%)			
Benzo(a)anthracene	1660	U	ND	1260	ug/kg	4.10	76.1	(0%-30%)			
Benzo(a)pyrene	1660	U	ND	1320	ug/kg	3.99	79.5	(0%-30%)			
Benzo(b)fluoranthene	1660	U	ND	1270	ug/kg	9.73	76.9	(0%-30%)			
Benzo(ghi)perylene	1660	U	ND	1410	ug/kg	2.92	84.9	(0%-30%)			
Benzo(k)fluoranthene	1660	U	ND	1250	ug/kg	1.06	75.5	(0%-30%)			
Benzoic acid	1660	U	ND	1030	ug/kg	3.49	62.2	(0%-30%)			
Benzyl alcohol	1660	U	ND	1130	ug/kg	3.08	68.1	(0%-30%)			
Bis(2-chloroethoxy)methane	1660	U	ND	1000	ug/kg	1.76	60.4	(0%-30%)			
Bis(2-chloroethyl)ether	1660	U	ND	901	ug/kg	2.03	54.4	(0%-30%)			
Bis(2-chloroisopropyl)ether	1660	U	ND	792	ug/kg	1.85	47.8	(0%-30%)			
Butyl benzyl phthalate	1660	U	ND	1380	ug/kg	1.91	83.2	(0%-30%)			
Chrysene	1660	U	ND	1310	ug/kg	0.379	79	(0%-30%)			
Di-n-butylphthalate	1660	U	ND	1390	ug/kg	3.20	83.8	(0%-30%)			
Di-n-octyl-phthalate	1660	U	ND	1420	ug/kg	4.84	86	(0%-30%)			
Dibenzo(a,h)anthracene	1660	U	ND	1360	ug/kg	2.45	82.4	(0%-30%)			
Dibenzofuran	1660	U	ND	1260	ug/kg	1.68	75.8	(0%-30%)			
Diethylphthalate	1660	U	ND	1400	ug/kg	3.01	84.4	(0%-30%)			
Dimethylphthalate	1660	U	ND	1370	ug/kg	1.30	82.5	(0%-30%)			
Diphenylamine	1660	U	ND	1250	ug/kg	0.686	75.8	(0%-30%)			
Fluoranthene	1660	U	ND	1310	ug/kg	3.12	79.1	(0%-30%)			
Fluorene	1660	U	ND	1260	ug/kg	2.19	76	(0%-30%)			
Hexachlorobenzene	1660	U	ND	1170	ug/kg	0.369	70.7	(0%-30%)			
				1100							

GEL LABORATORIES LLC

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QC Summary

Workorder: 237504

Page 8 of 9

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatiles-GC/MS											
Batch	905147										
Hexachlorobutadiene	1660	U	ND		ug/kg	1.90	66.3	(0%-30%)			
Hexachlorocyclopentadiene	1660	U	ND	1260	ug/kg	4.83	75.9	(0%-30%)	AGS1	09/23/09	21:23
Hexachloroethane	1660	U	ND	906	ug/kg	0.968	54.7	(0%-30%)			
Indeno(1,2,3-cd)pyrene	1660	U	ND	1440	ug/kg	2.87	86.9	(0%-30%)			
Isophorone	1660	U	ND	1100	ug/kg	2.34	66.3	(0%-30%)			
Naphthalene	1660	U	ND	1140	ug/kg	0.441	68.7	(0%-30%)			
Nitrobenzene	1660	U	ND	1020	ug/kg	0.543	61.4	(0%-30%)			
Pentachlorophenol	1660	U	ND	1050	ug/kg	2.56	63.1	(0%-30%)			
Phenanthrene	1660	U	ND	1250	ug/kg	0.421	75.4	(0%-30%)			
Phenol	1660	U	ND	1110	ug/kg	2.58	67.2	(0%-30%)			
Pyrene	1660	J	10.8	1240	ug/kg	1.17	74.5	(0%-30%)			
bis(2-Ethylhexyl)phthalate	1660	J	83.7	1390	ug/kg	1.06	78.9	(0%-30%)			
n-Nitroso-di-n-propylamine	1660	U	ND	1030	ug/kg	3.18	62.4	(0%-30%)			
n-Nitrosodimethylamine	1660	U	ND	898	ug/kg	1.27	54.2	(0%-30%)			
**2,4,6-Tribromophenol	3310		2670	2930	ug/kg		88.5	(37%-106%)			
**2-Fluorobiphenyl	1660		1240	1290	ug/kg		77.8	(36%-100%)			
**2-Fluorophenol	3310		2290	2340	ug/kg		70.7	(35%-96%)			
**Nitrobenzene-d5	1660		1080	1130	ug/kg		68.2	(34%-104%)			
**Phenol-d5	3310		2220	2260	ug/kg		68.4	(36%-96%)			
**p-Terphenyl-d14	1660		1580	1410	ug/kg		84.8	(40%-124%)			

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.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit

GEL LABORATORIES LLC

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

QC Summary

Workorder: 237504

Page 9 of 9

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
P		Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%									
R		Sample results are rejected									
U		Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
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.



September 25, 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: 237576
SDG: 237576

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 19, 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: MWHAG20090918_00
Enclosures

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

SSFL001 Boeing – SSFL (MWH)

Client SDG: 237576 GEL Work Order: 237576

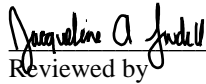
The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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 Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jacqueline Trudell.


Reviewed by _____

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 25, 2009

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

Client Sample ID: HZCW0001S001
Sample ID: 237576001
Matrix: Water
Collect Date: 18-SEP-09 11:45
Receive Date: 19-SEP-09
Collector: Client

Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
HPLC Explosives										
<i>8330 EXPLO. Std list+PETN+Nitr (log w/ 8321) "As Received"</i>										
1,3,5-Trinitrobenzene 99354	U	ND	0.0649	0.325	ug/L	2	CWW 09/25/09	0033	904920	1
2,4,6-Trinitrotoluene 118967	U	ND	0.162	0.487	ug/L	2				
2,4-Dinitrotoluene 121142	U	ND	0.162	0.487	ug/L	2				
2,6-Dinitrotoluene 606202	U	ND	0.162	0.487	ug/L	2				
2-Amino-4,6-dinitrotoluene 35572782	U	ND	0.162	0.487	ug/L	2				
4-Amino-2,6-dinitrotoluene 19406510	U	ND	0.162	0.487	ug/L	2				
HMX 2691410	U	ND	0.162	0.487	ug/L	2				
Nitrobenzene 98953	U	ND	0.0649	0.325	ug/L	2				
PETN 78115	U	ND	0.649	1.95	ug/L	2				
RDX 121824	U	ND	0.162	0.487	ug/L	2				
Tetryl 479458	U	ND	0.487	1.46	ug/L	2				
m-Dinitrobenzene 99650	U	ND	0.0649	0.325	ug/L	2				
m-Nitrotoluene 99081	U	ND	0.126	0.325	ug/L	2				
o-Nitrotoluene 88722	U	ND	0.162	0.487	ug/L	2				
p-Nitrotoluene 99990	U	ND	0.162	0.487	ug/L	2				
Nitroglycerin 55630	U	ND	0.649	1.95	ug/L	2	CWW 09/23/09	1713	904920	2
LC-MS/MS Explosives Federal										
<i>SW846 8321A Modified Explosives by LC-MS/MS "As Received"</i>										
2,4-Diamino-6-nitrotoluene 6629294	U	ND	0.390	1.30	ug/L	2	MAP 09/24/09	1427	904918	3
2,6-Diamino-4-nitrotoluene	U	ND	0.390	1.30	ug/L	2				

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 25, 2009

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

Client Sample ID: HZCW0001S001
Sample ID: 237576001
Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC–MS/MS Explosives Federal											
<i>SW846 8321A Modified Explosives by LC–MS/MS "As Received"</i>											
59229753											
Mercury Analysis–CVAA											
<i>7470 Cold Vapor Hg Liquid "As Received"</i>											
Mercury 7439976	U	ND	0.066	0.200	ug/L	1	JXL1	09/23/09	1159	904927	4
Metals Analysis–ICP											
<i>6010 ICP SCAN Metal Liquid Sb "As Received"</i>											
Antimony 7440360	U	ND	3.00	10.0	ug/L	1	HSC	09/23/09	1054	904885	5
Metals Analysis–ICP–MS											
<i>6020 TAL Metals – CAM 17 "As Received"</i>											
Arsenic 7440382	U	ND	1.60	5.00	ug/L	1	BAJ	09/23/09	0132	904881	6
Barium 7440393		6.43	0.600	2.00	ug/L	1					
Beryllium 7440417	U	ND	0.100	0.500	ug/L	1					
Copper 7440508	J	0.911	0.330	1.00	ug/L	1					
Molybdenum 7439987	U	ND	0.167	0.500	ug/L	1					
Selenium 7782492	U	ND	1.00	5.00	ug/L	1					
Silver 7440224	U	ND	0.200	1.00	ug/L	1					
Thallium 7440280	J	0.393	0.300	1.00	ug/L	1					
Zinc 7440666	U	ND	3.00	10.0	ug/L	1					
Cadmium 7440439	U	ND	0.110	1.00	ug/L	1	BAJ	09/23/09	1403	904881	7
Chromium 7440473	U	ND	2.00	10.0	ug/L	1					
Cobalt 7440484	J	0.114	0.100	1.00	ug/L	1					
Lead 7439921	J	1.89	0.500	2.00	ug/L	1					
Vanadium 7440622	U	ND	3.00	10.0	ug/L	1					
Nickel	U	ND	0.500	2.00	ug/L	1	BAJ	09/23/09	1621	904881	8

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Certificate of Analysis

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Report Date: September 25, 2009

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

Client Sample ID: HZCW0001S001
Sample ID: 237576001
Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Metals Analysis–ICP–MS											
<i>6020 TAL Metals – CAM 17 "As Received"</i>											
7440020											
Semi–Volatiles–PCB Federal											
<i>8082 PCB "As Received"</i>											
Aroclor–1016 12674112	U	ND	0.0326	0.098	ug/L	1	YS1	09/24/09	1144	905196	9
Aroclor–1221 11104282	U	ND	0.0326	0.098	ug/L	1					
Aroclor–1232 11141165	U	ND	0.0326	0.098	ug/L	1					
Aroclor–1242 53469219	U	ND	0.0326	0.098	ug/L	1					
Aroclor–1248 12672296	U	ND	0.0326	0.098	ug/L	1					
Aroclor–1254 11097691	U	ND	0.0326	0.098	ug/L	1					
Aroclor–1260 11096825	U	ND	0.0326	0.098	ug/L	1					
Semi–volatile Mass spec Organics Federal											
<i>8270C/3510C App.9 BNA Liquid (FULL List) "As Received"</i>											
1,2,4–Trichlorobenzene 120821	U	ND	2.00	10.0	ug/L	1	AGS1	09/23/09	2023	905143	11
1,2–Dichlorobenzene 95501	U	ND	2.00	10.0	ug/L	1					
1,2– Diphenylhydrazine/Azobenzene 122667	U	ND	2.00	10.0	ug/L	1					
1,3–Dichlorobenzene 541731	U	ND	2.00	10.0	ug/L	1					
1,4–Dichlorobenzene 106467	U	ND	2.00	10.0	ug/L	1					
1–Methylnaphthalene 90120	U	ND	0.300	1.00	ug/L	1					
2,4,5–Trichlorophenol 95954	U	ND	2.00	10.0	ug/L	1					
2,4,6–Trichlorophenol 88062	U	ND	2.00	10.0	ug/L	1					
2,4–Dichlorophenol 120832	U	ND	2.00	10.0	ug/L	1					
2,4–Dimethylphenol 105679	U	ND	2.00	10.0	ug/L	1					
2,4–Dinitrophenol	U	ND	5.00	20.0	ug/L	1					

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Certificate of Analysis

Company : MWH Americas, Inc.
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Report Date: September 25, 2009

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

Client Sample ID: HZCW0001S001
Sample ID: 237576001

Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
<i>8270C/3510C App.9 BNA Liquid (FULL List) "As Received"</i>										
51285										
2,4-Dinitrotoluene 121142	U	ND	2.00	10.0	ug/L	1				
2,6-Dinitrotoluene 606202	U	ND	2.00	10.0	ug/L	1				
2-Chloronaphthalene 91587	U	ND	0.300	1.00	ug/L	1				
2-Chlorophenol 95578	U	ND	2.00	10.0	ug/L	1				
4,6-Dinitro-2-methylphenol 534521	U	ND	3.00	10.0	ug/L	1				
2-Methylnaphthalene 91576	U	ND	0.300	1.00	ug/L	1				
2-Nitrophenol 88755	U	ND	2.00	10.0	ug/L	1				
3,3-Dichlorobenzidine 91941	U	ND	2.00	10.0	ug/L	1				
4-Bromophenyl phenyl ether 101553	U	ND	2.00	10.0	ug/L	1				
4-Chloro-3-methylphenol 59507	U	ND	2.00	10.0	ug/L	1				
4-Chloroaniline 106478	U	ND	2.00	10.0	ug/L	1				
4-Chlorophenyl-phenylether 7005723	U	ND	2.00	10.0	ug/L	1				
4-Nitrophenol 100027	U	ND	2.00	10.0	ug/L	1				
Acenaphthene 83329	U	ND	0.310	1.00	ug/L	1				
Acenaphthylene 208968	U	ND	0.200	1.00	ug/L	1				
Aniline 62533	U	ND	2.50	10.0	ug/L	1				
Anthracene 120127	U	ND	0.200	1.00	ug/L	1				
Benzdine 92875	U	ND	3.00	10.0	ug/L	1				
Benzo(a)anthracene 56553	U	ND	0.200	1.00	ug/L	1				
Benzo(a)pyrene 50328	U	ND	0.200	1.00	ug/L	1				
Benzo(b)fluoranthene	U	ND	0.200	1.00	ug/L	1				

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Report Date: September 25, 2009

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

Client Sample ID: HZCW0001S001
Sample ID: 237576001
Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal										
<i>8270C/3510C App.9 BNA Liquid (FULL List) "As Received"</i>										
205992										
Benzo(ghi)perylene 191242	U	ND	0.200	1.00	ug/L	1				
Benzo(k)fluoranthene 207089	U	ND	0.200	1.00	ug/L	1				
Benzoic acid 65850	U	ND	6.00	20.0	ug/L	1				
Benzyl alcohol 100516	U	ND	2.00	10.0	ug/L	1				
Butyl benzyl phthalate 85687	U	ND	2.00	10.0	ug/L	1				
Carbazole 86-74-8	U	ND	0.200	1.00	ug/L	1				
Chrysene 218019	U	ND	0.200	1.00	ug/L	1				
Di-n-butylphthalate 84742	U	ND	2.00	10.0	ug/L	1				
Di-n-octyl-phthalate 117840	U	ND	3.00	10.0	ug/L	1				
Dibenzo(a,h)anthracene 53703	U	ND	0.200	1.00	ug/L	1				
Dibenzofuran 132649	U	ND	2.00	10.0	ug/L	1				
Diethylphthalate 84662	U	ND	2.00	10.0	ug/L	1				
Dimethylphthalate 131113	U	ND	2.00	10.0	ug/L	1				
Diphenylamine 122394	U	ND	3.00	10.0	ug/L	1				
Fluoranthene 206440	U	ND	0.200	1.00	ug/L	1				
Fluorene 86737	U	ND	0.200	1.00	ug/L	1				
Hexachlorobenzene 118741	U	ND	2.00	10.0	ug/L	1				
Hexachlorobutadiene 87683	U	ND	2.00	10.0	ug/L	1				
Hexachlorocyclopentadiene 77474	U	ND	3.00	10.0	ug/L	1				
Hexachloroethane 67721	U	ND	2.00	10.0	ug/L	1				
Indeno(1,2,3-cd)pyrene	U	ND	0.200	1.00	ug/L	1				

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 25, 2009

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

Client Sample ID: HZCW0001S001
Sample ID: 237576001
Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
<i>GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"</i>										
1,1,1-Trichloroethane 71556	U	ND	0.325	1.00	ug/L	1				
1,1,2,2-Tetrachloroethane 79345	U	ND	0.250	1.00	ug/L	1				
1,1,2-Trichloroethane 79005	U	ND	0.250	1.00	ug/L	1				
1,1-Dichloroethane 75343	U	ND	0.300	1.00	ug/L	1				
1,1-Dichloroethene 75354	U	ND	0.300	1.00	ug/L	1				
1,1-Dichloropropene 563586	U	ND	0.250	1.00	ug/L	1				
1,2,3-Trichlorobenzene 87616	U	ND	0.332	1.00	ug/L	1				
1,2,3-Trichloropropane 96184	U	ND	0.300	1.00	ug/L	1				
1,2,4-Trichlorobenzene 120821	U	ND	0.300	1.00	ug/L	1				
1,2,4-Trimethylbenzene 95636	U	ND	0.250	1.00	ug/L	1				
1,2-Dibromo-3-chloropropane 96128	U	ND	0.300	1.00	ug/L	1				
1,2-Dibromoethane (EDB) 106934	U	ND	0.250	1.00	ug/L	1				
1,2-Dichlorobenzene 95501	U	ND	0.250	1.00	ug/L	1				
1,2-Dichloroethane 107062	U	ND	0.250	1.00	ug/L	1				
1,2-Dichloropropane 78875	U	ND	0.250	1.00	ug/L	1				
1,3,5-Trimethylbenzene 108678	U	ND	0.250	1.00	ug/L	1				
1,3-Dichlorobenzene 541731	U	ND	0.250	1.00	ug/L	1				
1,3-Dichloropropane 142289	U	ND	0.300	1.00	ug/L	1				
1,4-Dichlorobenzene 106467	U	ND	0.250	1.00	ug/L	1				
2,2-Dichloropropane 594207	U	ND	0.300	1.00	ug/L	1				
2-Butanone (MEK) 78933	U	ND	1.25	5.00	ug/L	1				

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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 25, 2009

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

Client Sample ID: HZCW0001S001
Sample ID: 237576001
Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Volatile Organics Federal											
<i>GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"</i>											
2-Chloro-1,1,1-trifluoroethane 75887	U	ND	3.00	10.0	ug/L	1					
2-Chloroethyl vinyl ether 110758	U	ND	1.50	5.00	ug/L	1					
2-Chlorotoluene 95498	U	ND	0.250	1.00	ug/L	1					
2-Hexanone 591786	U	ND	1.25	5.00	ug/L	1					
4-Chlorotoluene 106434	U	ND	0.250	1.00	ug/L	1					
p-Isopropyltoluene 99876	U	ND	0.250	1.00	ug/L	1					
4-Methyl-2-pentanone (MIBK) 108101	U	ND	1.25	5.00	ug/L	1					
Acetone 67641	U	ND	1.50	5.00	ug/L	1					
Benzene 71432	U	ND	0.300	1.00	ug/L	1					
Bromobenzene 108861	U	ND	0.250	1.00	ug/L	1					
Bromochloromethane 74975	U	ND	0.300	1.00	ug/L	1					
Bromodichloromethane 75274	U	ND	0.250	1.00	ug/L	1					
Bromoform 75252	U	ND	0.250	1.00	ug/L	1					
Bromomethane 74839	U	ND	0.300	1.00	ug/L	1					
Carbon tetrachloride 56235	U	ND	0.300	1.00	ug/L	1					
Chlorobenzene 108907	U	ND	0.250	1.00	ug/L	1					
Chloroethane 75003	U	ND	0.300	1.00	ug/L	1					
Chloroform 67663	U	ND	0.250	1.00	ug/L	1					
Chloromethane 74873	U	ND	0.300	1.00	ug/L	1					
Chlorotrifluoroethylene 79389	U	ND	3.00	10.0	ug/L	1					
Dibromochloromethane 124481	U	ND	0.300	1.00	ug/L	1					

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Valley UST**

Client Sample ID: HZCW0001S001
Sample ID: 237576001
Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Volatile Organics Federal											
<i>GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"</i>											
Dibromomethane 74953	U	ND	0.300	1.00	ug/L	1					
Dichlorodifluoromethane 75718	U	ND	0.300	1.00	ug/L	1					
Ethylbenzene 100414	U	ND	0.250	1.00	ug/L	1					
Hexachlorobutadiene 87683	U	ND	0.300	1.00	ug/L	1					
Isopropylbenzene 98828	U	ND	0.250	1.00	ug/L	1					
Methylene chloride 75092	U	ND	2.00	5.00	ug/L	1					
Styrene 100425	U	ND	0.250	1.00	ug/L	1					
Tetrachloroethene 127184	U	ND	0.300	1.00	ug/L	1					
Toluene 108883	U	ND	0.250	1.00	ug/L	1					
Trichloroethene 79016	U	ND	0.250	1.00	ug/L	1					
Trichlorofluoromethane 75694	U	ND	0.300	1.00	ug/L	1					
1,1,2-Trichloro-1,2,2- trifluoroethane 76131	U	ND	1.00	5.00	ug/L	1					
Vinyl chloride 75014	U	ND	0.500	1.00	ug/L	1					
cis-1,2-Dichloroethene 156592	U	ND	0.300	1.00	ug/L	1					
cis-1,3-Dichloropropene 10061015	U	ND	0.250	1.00	ug/L	1					
m,p-Xylenes 179601231	U	ND	0.500	2.00	ug/L	1					
n-Butylbenzene 104518	U	ND	0.250	1.00	ug/L	1					
n-Propylbenzene 103651	U	ND	0.250	1.00	ug/L	1					
o-Xylene 95476	U	ND	0.300	1.00	ug/L	1					
sec-Butylbenzene 135988	U	ND	0.250	1.00	ug/L	1					
Methyl-tert-butyl Ether	U	ND	0.250	1.00	ug/L	1					

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Valley UST**

Client Sample ID: HZCW0001S001
Sample ID: 237576001
Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Volatile Organics Federal											
<i>GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"</i>											
(MTBE)											
1634044											
tert-Butylbenzene	U	ND	0.250	1.00	ug/L	1					
98066											
trans-1,2-Dichloroethene	U	ND	0.300	1.00	ug/L	1					
156605											
trans-1,3-Dichloropropene	U	ND	0.250	1.00	ug/L	1					
10061026											

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	AXG2	09/22/09	0800	904880
SW846 3005A	ICP-TRACE SW846 3005A	AXG2	09/22/09	0800	904882
SW846 3510C	3510C PCB Prep H2O Federal	TXA1	09/23/09	1520	905195
SW846 3510C	3510C-8270C BNA Appendix 9 Prep Fed	SJW1	09/23/09	1322	905140
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	TXB3	09/22/09	1130	904926
SW846 Method 3535	8330 Explosives Prep by SPE	JXA2	09/23/09	0811	904919
SW846 Method 3535	SW846 8330 Explosives SPE Extraction	JXA2	09/23/09	0808	904917

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 3535/8330	
2	SW846 3535/8330	
3	SW846 3535/8321A Modified	
4	SW846 7470A	
5	SW846 3005/6010B	
6	SW846 3005/6020	
7	SW846 3005/6020	
8	SW846 3005/6020	
9	SW846 8082	
10	SW846 8082	
11	SW846 8270C	
12	SW846 8260B	

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Report Date: September 25, 2009

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

Client Sample ID: HZCW0001S001
Sample ID: 237576001
Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Surrogate/Tracer recovery	Test			Result	Nominal	Recovery%			Acceptable Limits	
3,4-Dinitrotoluene	8330 EXPLO. Std list+PETN+Nitr (log w/ 8321) "As Received"			3.42 ug/L	3.25	105			(70%–130%)	
3,4-Dinitrotoluene	8330 EXPLO. Std list+PETN+Nitr (log w/ 8321) "As Received"			3.30 ug/L	3.25	102			(70%–130%)	
3,4-Dinitrotoluene	SW846 8321A Modified Explosives by LC-MS/MS "As Received"			3.29 ug/L	3.25	101			(67%–129%)	
4cmx	8082 PCB "As Received"			0.113 ug/L	0.196	57.6			(29%–103%)	
Decachlorobiphenyl	8082 PCB "As Received"			0.0971 ug/L	0.196	49.5			(34%–118%)	
2,4,6-Tribromophenol	8270C/3510C App.9 BNA Liquid (FULL List) "As Received"			98.9 ug/L	100	98.9			(39%–115%)	
2-Fluorophenol	8270C/3510C App.9 BNA Liquid (FULL List) "As Received"			47.7 ug/L	100	47.7			(25%–92%)	
Phenol-d5	8270C/3510C App.9 BNA Liquid (FULL List) "As Received"			28.5 ug/L	100	28.5			(15%–73%)	
2-Fluorobiphenyl	8270C/3510C App.9 BNA Liquid (FULL List) "As Received"			42.4 ug/L	50.0	84.8			(35%–100%)	
Nitrobenzene-d5	8270C/3510C App.9 BNA Liquid (FULL List) "As Received"			38.4 ug/L	50.0	76.7			(40%–112%)	
p-Terphenyl-d14	8270C/3510C App.9 BNA Liquid (FULL List) "As Received"			54.8 ug/L	50.0	110			(46%–130%)	
1,2-Dichloroethane-d4	GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"			46.6 ug/L	50.0	93.2			(59%–130%)	
Bromofluorobenzene	GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"			50.0 ug/L	50.0	100			(71%–126%)	
Toluene-d8	GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"			50.3 ug/L	50.0	101			(76%–129%)	

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Report Date: September 25, 2009

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

Client Sample ID: HZTB2004T001
Sample ID: 237576002
Matrix: Water
Collect Date: 18-SEP-09 10:30
Receive Date: 19-SEP-09
Collector: Client

Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
<i>GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"</i>										
1,1,1,2-Tetrachloroethane 630206	U	ND	0.300	1.00	ug/L	1	AXO1 09/22/09	1657	905130	1
1,1,1-Trichloroethane 71556	U	ND	0.325	1.00	ug/L	1				
1,1,2,2-Tetrachloroethane 79345	U	ND	0.250	1.00	ug/L	1				
1,1,2-Trichloroethane 79005	U	ND	0.250	1.00	ug/L	1				
1,1-Dichloroethane 75343	U	ND	0.300	1.00	ug/L	1				
1,1-Dichloroethene 75354	U	ND	0.300	1.00	ug/L	1				
1,1-Dichloropropene 563586	U	ND	0.250	1.00	ug/L	1				
1,2,3-Trichlorobenzene 87616	U	ND	0.332	1.00	ug/L	1				
1,2,3-Trichloropropane 96184	U	ND	0.300	1.00	ug/L	1				
1,2,4-Trichlorobenzene 120821	U	ND	0.300	1.00	ug/L	1				
1,2,4-Trimethylbenzene 95636	U	ND	0.250	1.00	ug/L	1				
1,2-Dibromo-3-chloropropane 96128	U	ND	0.300	1.00	ug/L	1				
1,2-Dibromoethane (EDB) 106934	U	ND	0.250	1.00	ug/L	1				
1,2-Dichlorobenzene 95501	U	ND	0.250	1.00	ug/L	1				
1,2-Dichloroethane 107062	U	ND	0.250	1.00	ug/L	1				
1,2-Dichloropropane 78875	U	ND	0.250	1.00	ug/L	1				
1,3,5-Trimethylbenzene 108678	U	ND	0.250	1.00	ug/L	1				
1,3-Dichlorobenzene 541731	U	ND	0.250	1.00	ug/L	1				
1,3-Dichloropropane	U	ND	0.300	1.00	ug/L	1				

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Certificate of Analysis

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

Report Date: September 25, 2009

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

Client Sample ID: HZTB2004T001
Sample ID: 237576002

Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
<i>GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"</i>										
142289										
1,4-Dichlorobenzene 106467	U	ND	0.250	1.00	ug/L	1				
2,2-Dichloropropane 594207	U	ND	0.300	1.00	ug/L	1				
2-Butanone (MEK) 78933	U	ND	1.25	5.00	ug/L	1				
2-Chloro-1,1,1-trifluoroethane 75887	U	ND	3.00	10.0	ug/L	1				
2-Chloroethyl vinyl ether 110758	U	ND	1.50	5.00	ug/L	1				
2-Chlorotoluene 95498	U	ND	0.250	1.00	ug/L	1				
2-Hexanone 591786	U	ND	1.25	5.00	ug/L	1				
4-Chlorotoluene 106434	U	ND	0.250	1.00	ug/L	1				
p-Isopropyltoluene 99876	U	ND	0.250	1.00	ug/L	1				
4-Methyl-2-pentanone (MIBK) 108101	U	ND	1.25	5.00	ug/L	1				
Acetone 67641	U	ND	1.50	5.00	ug/L	1				
Benzene 71432	U	ND	0.300	1.00	ug/L	1				
Bromobenzene 108861	U	ND	0.250	1.00	ug/L	1				
Bromochloromethane 74975	U	ND	0.300	1.00	ug/L	1				
Bromodichloromethane 75274	U	ND	0.250	1.00	ug/L	1				
Bromoform 75252	U	ND	0.250	1.00	ug/L	1				
Bromomethane 74839	U	ND	0.300	1.00	ug/L	1				
Carbon tetrachloride 56235	U	ND	0.300	1.00	ug/L	1				
Chlorobenzene 108907	U	ND	0.250	1.00	ug/L	1				
Chloroethane 75003	U	ND	0.300	1.00	ug/L	1				
Chloroform	U	ND	0.250	1.00	ug/L	1				

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

Client Sample ID: HZTB2004T001
Sample ID: 237576002
Project: SSFL00164
Client ID: SSFL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
<i>GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"</i>										
n-Propylbenzene 103651	U	ND	0.250	1.00	ug/L	1				
o-Xylene 95476	U	ND	0.300	1.00	ug/L	1				
sec-Butylbenzene 135988	U	ND	0.250	1.00	ug/L	1				
Methyl-tert-butyl Ether (MTBE) 1634044	U	ND	0.250	1.00	ug/L	1				
tert-Butylbenzene 98066	U	ND	0.250	1.00	ug/L	1				
trans-1,2-Dichloroethene 156605	U	ND	0.300	1.00	ug/L	1				
trans-1,3-Dichloropropene 10061026	U	ND	0.250	1.00	ug/L	1				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"	48.2 ug/L	50.0	96.4	(59%–130%)
Bromofluorobenzene	GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"	50.6 ug/L	50.0	101	(71%–126%)
Toluene-d8	GEL 8260B Method List Liquid (Unpreserved 2CLEVE) "As Received"	50.7 ug/L	50.0	101	(76%–129%)

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QC Summary

Report Date: September 25, 2009

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MWH Americas, Inc.

1340 Treat Blvd. Suite 300

Walnut Creek, California

Contact: Ms. Sarah Von Raesfeld, MWH

Workorder: 237576

Parname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
HPLC-Explosives										
Batch	904920									
QC1201929326	LCS									
1,3,5-Trinitrobenzene	6.49		6.27	ug/L		96.5	(86%-108%)	CWW	09/24/09	23:14
2,4,6-Trinitrotoluene	6.49		6.01	ug/L		92.5	(81%-113%)			
2,4-Dinitrotoluene	6.49		5.99	ug/L		92.2	(84%-108%)			
2,6-Dinitrotoluene	6.49		6.24	ug/L		96.1	(85%-109%)			
2-Amino-4,6-dinitrotoluene	6.49		5.58	ug/L		85.9	(77%-114%)			
4-Amino-2,6-dinitrotoluene	6.49		5.93	ug/L		91.3	(77%-108%)			
HMX	6.49		6.40	ug/L		98.5	(86%-108%)			
Nitrobenzene	6.49		6.03	ug/L		92.8	(80%-100%)			
PETN	6.49		6.90	ug/L		106	(81%-122%)			
RDX	6.49		6.09	ug/L		93.8	(83%-114%)			
Tetryl	6.49		6.04	ug/L		93	(74%-112%)			
m-Dinitrobenzene	6.49		6.17	ug/L		95	(84%-107%)			
m-Nitrotoluene	6.49		6.33	ug/L		97.5	(74%-102%)			
o-Nitrotoluene	6.49		5.93	ug/L		91.4	(74%-103%)			
p-Nitrotoluene	6.49		6.29	ug/L		96.9	(77%-103%)			
**3,4-Dinitrotoluene	3.25		3.44	ug/L		106	(70%-130%)			
QC1201929330	LCS									
Nitroglycerin	6.49		6.55	ug/L		101	(86%-118%)		09/23/09	15:56
**3,4-Dinitrotoluene	3.25		3.16	ug/L		97.3	(70%-130%)			
QC1201929329	LCSD									
1,3,5-Trinitrobenzene	6.49		6.19	ug/L	1.22	95.4	(0%-20%)		09/24/09	23:54
2,4,6-Trinitrotoluene	6.49		6.06	ug/L	0.883	93.3	(0%-20%)			
2,4-Dinitrotoluene	6.49		6.08	ug/L	1.49	93.6	(0%-20%)			
2,6-Dinitrotoluene	6.49		6.32	ug/L	1.38	97.4	(0%-20%)			
2-Amino-4,6-dinitrotoluene	6.49		5.65	ug/L	1.34	87	(0%-20%)			
4-Amino-2,6-dinitrotoluene	6.49		6.01	ug/L	1.36	92.6	(0%-20%)			
HMX	6.49		6.58	ug/L	2.77	101	(0%-20%)			
Nitrobenzene	6.49		5.99	ug/L	0.544	92.3	(0%-20%)			
PETN	6.49		7.03	ug/L	1.77	108	(0%-20%)			
RDX	6.49		6.00	ug/L	1.41	92.5	(0%-20%)			
Tetryl	6.49		6.00	ug/L	0.566	92.4	(0%-20%)			
m-Dinitrobenzene	6.49		6.17	ug/L	0.0741	95	(0%-20%)			
m-Nitrotoluene	6.49		6.27	ug/L	0.912	96.6	(0%-20%)			
o-Nitrotoluene	6.49		5.84	ug/L	1.52	90	(0%-20%)			
p-Nitrotoluene	6.49		6.23	ug/L	1.03	95.9	(0%-20%)			
**3,4-Dinitrotoluene	3.25		3.46	ug/L		107	(70%-130%)			
QC1201929331	LCSD									
Nitroglycerin	6.49		6.89	ug/L	5.13	106	(0%-20%)		09/23/09	16:35

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QC Summary

Workorder: 237576

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
HPLC-Explosives											
Batch	904920										
**3,4-Dinitrotoluene	3.25			3.21	ug/L		98.9	(70%-130%)			
QC1201929325		MB									
1,3,5-Trinitrobenzene			U	ND	ug/L				CWW	09/24/09	22:35
2,4,6-Trinitrotoluene			U	ND	ug/L						
2,4-Dinitrotoluene			U	ND	ug/L						
2,6-Dinitrotoluene			U	ND	ug/L						
2-Amino-4,6-dinitrotoluene			U	ND	ug/L						
4-Amino-2,6-dinitrotoluene			U	ND	ug/L						
HMX			U	ND	ug/L						
Nitrobenzene			U	ND	ug/L						
Nitroglycerin			U	ND	ug/L					09/23/09	15:18
PETN			U	ND	ug/L					09/24/09	22:35
RDX			U	ND	ug/L						
Tetryl			U	ND	ug/L						
m-Dinitrobenzene			U	ND	ug/L						
m-Nitrotoluene			U	ND	ug/L						
o-Nitrotoluene			U	ND	ug/L						
p-Nitrotoluene			U	ND	ug/L						
**3,4-Dinitrotoluene	3.25			3.21	ug/L		99	(70%-130%)		09/23/09	15:18
**3,4-Dinitrotoluene	3.25			3.41	ug/L		105	(70%-130%)		09/24/09	22:35
LC-MS/MS Explosives											
Batch	904918										
QC1201929322		LCS									
2,4-Diamino-6-nitrotoluene	6.49		U	ND	ug/L		0*	(52%-113%)	MAP	09/24/09	13:55
2,6-Diamino-4-nitrotoluene	6.49		U	ND	ug/L		0*	(59%-123%)			
**3,4-Dinitrotoluene	3.25			2.77	ug/L		85.2	(67%-129%)			
QC1201929352		LCSD									
2,4-Diamino-6-nitrotoluene	6.49		U	ND	ug/L	200*	0	(0%-25%)		09/24/09	14:11
2,6-Diamino-4-nitrotoluene	6.49		U	ND	ug/L	200*	0	(0%-25%)			
**3,4-Dinitrotoluene	3.25			2.77	ug/L		85.2	(67%-129%)			
QC1201929321		MB									
2,4-Diamino-6-nitrotoluene			U	ND	ug/L					09/24/09	13:40
2,6-Diamino-4-nitrotoluene			U	ND	ug/L						
**3,4-Dinitrotoluene	3.25			2.87	ug/L		88.4	(67%-129%)			
Metals Analysis - ICPMS											
Batch	904881										
QC1201929236	237576001	DUP									
Arsenic			U	ND	U	ND	ug/L	N/A	(+/-5.00)	BAJ	09/23/09 01:38
Barium				6.43		6.07	ug/L	5.77 ^	(+/-2.00)		
Beryllium			U	ND	U	ND	ug/L	N/A	(+/-0.500)		
Cadmium			U	ND	U	ND	ug/L	N/A	(+/-1.00)		09/23/09 14:06
Chromium			U	ND	U	ND	ug/L	N/A	(+/-10.0)		
Cobalt			J	0.114	U	ND	ug/L	N/A ^	(+/-1.00)		

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	904881										
Copper	J	0.911	J	0.763	ug/L	N/A	^	(+/-1.00)		09/23/09	01:38
Lead	J	1.89	J	1.83	ug/L	N/A	^	(+/-2.00)	BAJ	09/23/09	14:06
Molybdenum	U	ND	U	ND	ug/L	N/A		(+/-0.500)		09/23/09	01:38
Nickel	U	ND	U	ND	ug/L	N/A		(+/-2.00)		09/23/09	16:22
Selenium	U	ND	U	ND	ug/L	N/A		(+/-5.00)		09/23/09	01:38
Silver	U	ND	U	ND	ug/L	N/A		(+/-1.00)			
Thallium	J	0.393	U	ND	ug/L	N/A	^	(+/-1.00)			
Vanadium	U	ND	U	ND	ug/L	N/A		(+/-10.0)		09/23/09	14:06
Zinc	U	ND	U	ND	ug/L	N/A		(+/-10.0)		09/23/09	01:38
QC1201929235	LCS										
Arsenic	50.0			52.3	ug/L			105 (80%-120%)		09/23/09	01:26
Barium	50.0			50.9	ug/L			102 (80%-120%)			
Beryllium	50.0			52.7	ug/L			105 (80%-120%)			
Cadmium	50.0			50.6	ug/L			101 (80%-120%)		09/23/09	14:00
Chromium	50.0			49.9	ug/L			99.9 (80%-120%)			
Cobalt	50.0			50.5	ug/L			101 (80%-120%)			
Copper	50.0			54.8	ug/L			110 (80%-120%)		09/23/09	01:26
Lead	50.0			53.2	ug/L			106 (80%-120%)		09/23/09	14:00
Molybdenum	50.0			52.0	ug/L			104 (80%-120%)		09/23/09	01:26
Nickel	50.0			51.2	ug/L			102 (80%-120%)		09/23/09	16:19
Selenium	50.0			51.5	ug/L			103 (80%-120%)		09/23/09	01:26
Silver	50.0			54.5	ug/L			109 (80%-120%)			
Thallium	50.0			53.0	ug/L			106 (80%-120%)			
Vanadium	50.0			47.0	ug/L			94 (80%-120%)		09/23/09	14:00
Zinc	50.0			52.9	ug/L			106 (80%-120%)		09/23/09	01:26
QC1201929234	MB										
Arsenic			U	ND	ug/L					09/23/09	01:20
Barium			U	ND	ug/L						
Beryllium			U	ND	ug/L						
Cadmium			U	ND	ug/L					09/23/09	13:57
Chromium			U	ND	ug/L						
Cobalt			U	ND	ug/L						
Copper			U	ND	ug/L					09/23/09	01:20
Lead			U	ND	ug/L					09/23/09	13:57
Molybdenum			U	ND	ug/L					09/23/09	01:20
Nickel			U	ND	ug/L					09/23/09	16:17
Selenium			U	ND	ug/L					09/23/09	01:20
Silver			U	ND	ug/L						
Thallium			U	ND	ug/L						
Vanadium			U	ND	ug/L					09/23/09	13:57
Zinc			U	ND	ug/L					09/23/09	01:20
QC1201929237	237576001 MS										

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Metals Analysis - ICPMS											
Batch	904881										
Arsenic	50.0	U	ND	51.2	ug/L		102	(75%-125%)		09/23/09	01:44
Barium	50.0		6.43	54.1	ug/L		95.4	(75%-125%)	BAJ		
Beryllium	50.0	U	ND	51.8	ug/L		104	(75%-125%)			
Cadmium	50.0	U	ND	50.6	ug/L		101	(75%-125%)		09/23/09	14:09
Chromium	50.0	U	ND	51.3	ug/L		103	(75%-125%)			
Cobalt	50.0	J	0.114	51.3	ug/L		102	(75%-125%)			
Copper	50.0	J	0.911	54.1	ug/L		106	(75%-125%)		09/23/09	01:44
Lead	50.0	J	1.89	54.4	ug/L		105	(75%-125%)		09/23/09	14:09
Molybdenum	50.0	U	ND	50.4	ug/L		101	(75%-125%)		09/23/09	01:44
Nickel	50.0	U	ND	52.4	ug/L		104	(75%-125%)		09/23/09	16:24
Selenium	50.0	U	ND	50.8	ug/L		102	(75%-125%)		09/23/09	01:44
Silver	50.0	U	ND	51.8	ug/L		104	(75%-125%)			
Thallium	50.0	J	0.393	51.3	ug/L		102	(75%-125%)			
Vanadium	50.0	U	ND	51.4	ug/L		103	(75%-125%)		09/23/09	14:09
Zinc	50.0	U	ND	51.9	ug/L		98.6	(75%-125%)		09/23/09	01:44
QC1201929238 237576001 SDILT											
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-10%)		09/23/09	01:50
Barium			6.43	J	1.25	ug/L	2.63	(0%-10%)			
Beryllium		U	ND	U	ND	ug/L	N/A	(0%-10%)			
Cadmium		U	ND	U	ND	ug/L	N/A	(0%-10%)		09/23/09	14:12
Chromium		U	ND	U	ND	ug/L	N/A	(0%-10%)			
Cobalt		J	0.114	U	ND	ug/L	N/A	(0%-10%)			
Copper		J	0.911	U	ND	ug/L	N/A	(0%-10%)		09/23/09	01:50
Lead		J	1.89	U	ND	ug/L	N/A	(0%-10%)		09/23/09	14:12
Molybdenum		U	ND	U	ND	ug/L	N/A	(0%-10%)		09/23/09	01:50
Nickel		U	ND	U	ND	ug/L	N/A	(0%-10%)		09/23/09	16:26
Selenium		U	ND	U	ND	ug/L	N/A	(0%-10%)		09/23/09	01:50
Silver		U	ND	U	ND	ug/L	N/A	(0%-10%)			
Thallium		J	0.393	J	0.337	ug/L	329	(0%-10%)			
Vanadium		U	ND	U	ND	ug/L	N/A	(0%-10%)		09/23/09	14:12
Zinc		U	ND	U	ND	ug/L	N/A	(0%-10%)		09/23/09	01:50
Metals Analysis-ICP											
Batch	904885										
QC1201929241 237576001 DUP											
Antimony		U	ND	U	ND	ug/L	N/A	(+/-10.0)	HSC	09/23/09	10:58
QC1201929240 LCS											
Antimony	500				517	ug/L	103	(80%-120%)		09/23/09	10:50
QC1201929239 MB											
Antimony				U	ND	ug/L				09/23/09	10:47
QC1201929242 237576001 MS											
Antimony	500	U	ND		519	ug/L	103	(75%-125%)		09/23/09	11:01
QC1201929243 237576001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A	(0%-10%)		09/23/09	11:05

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	904927										
QC1201929339	237576001	DUP									
Mercury		U	ND	U	ND	ug/L	N/A	(+/-0.200)	JXL1	09/23/09	12:01
QC1201929338	LCS										
Mercury	2.00				2.21	ug/L		110	(80%-120%)		09/23/09 11:57
QC1201929337	MB										
Mercury				U	ND	ug/L					09/23/09 11:56
QC1201929340	237576001	MS									
Mercury	2.00	U	ND		2.16	ug/L		108	(75%-125%)		09/23/09 12:07
QC1201929341	237576001	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)			09/23/09 12:09
Semi-Volatiles-GC/MS											
Batch	905143										
QC1201929874	LCS										
1,2,4-Trichlorobenzene	50.0				39.5	ug/L		79	(40%-91%)	AGS1	09/23/09 19:42
1,2-Dichlorobenzene	50.0				36.1	ug/L		72.1	(39%-91%)		
1,2-Diphenylhydrazine/Azobenzene	50.0				35.6	ug/L		71.2	(48%-120%)		
1,3-Dichlorobenzene	50.0				34.6	ug/L		69.2	(38%-88%)		
1,4-Dichlorobenzene	50.0				35.1	ug/L		70.2	(38%-88%)		
1-Methylnaphthalene	50.0				44.6	ug/L		89.3	(40%-95%)		
2,4,5-Trichlorophenol	50.0				49.3	ug/L		98.7	(50%-111%)		
2,4,6-Trichlorophenol	50.0				51.1	ug/L		102	(54%-111%)		
2,4-Dichlorophenol	50.0				50.6	ug/L		101	(52%-105%)		
2,4-Dimethylphenol	50.0				41.7	ug/L		83.4	(44%-100%)		
2,4-Dinitrophenol	50.0				52.3	ug/L		105	(33%-118%)		
2,4-Dinitrotoluene	50.0				51.9	ug/L		104	(55%-108%)		
2,6-Dinitrotoluene	50.0				49.2	ug/L		98.5	(58%-104%)		
2-Chloronaphthalene	50.0				42.3	ug/L		84.6	(46%-100%)		
2-Chlorophenol	50.0				43.8	ug/L		87.6	(49%-96%)		
2-Methylnaphthalene	50.0				42.9	ug/L		85.7	(42%-97%)		
2-Methylphenol	50.0				36.5	ug/L		73.1	(41%-94%)		
2-Nitroaniline	50.0				36.2	ug/L		72.3	(50%-120%)		
2-Nitrophenol	50.0				51.5	ug/L		103	(52%-104%)		
3,3-Dichlorobenzidine	50.0				46.9	ug/L		93.7	(41%-107%)		
3-Nitroaniline	50.0				48.5	ug/L		96.9	(58%-125%)		
4,6-Dinitro-2-methylphenol	50.0				50.2	ug/L		100	(39%-124%)		
4-Bromophenyl phenyl ether	50.0				55.1	ug/L		110*	(56%-108%)		
4-Chloro-3-methylphenol	50.0				47.9	ug/L		95.8	(55%-109%)		
4-Chloroaniline	50.0				46.6	ug/L		93.1	(57%-145%)		
4-Chlorophenyl-phenylether	50.0				51.0	ug/L		102	(57%-106%)		
4-Methylphenol	50.0				38.7	ug/L		77.4	(38%-96%)		
4-Nitroaniline	50.0				44.3	ug/L		88.7	(48%-135%)		
4-Nitrophenol	50.0				23.4	ug/L		46.9	(19%-56%)		
Acenaphthene	50.0				42.5	ug/L		85	(47%-101%)		

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatiles-GC/MS										
Batch	905143									
Acenaphthylene	50.0		45.2	ug/L		90.5	(58%-99%)			
Aniline	50.0		33.5	ug/L		67	(49%-124%)	AGS1	09/23/09	19:42
Anthracene	50.0		44.4	ug/L		88.8	(55%-106%)			
Benzidine	100		11.7	ug/L		11.7*	(17%-138%)			
Benzo(a)anthracene	50.0		45.0	ug/L		90.1	(56%-105%)			
Benzo(a)pyrene	50.0		49.3	ug/L		98.6	(58%-111%)			
Benzo(b)fluoranthene	50.0		46.6	ug/L		93.1	(53%-114%)			
Benzo(ghi)perylene	50.0		47.3	ug/L		94.5	(41%-125%)			
Benzo(k)fluoranthene	50.0		50.2	ug/L		100	(55%-116%)			
Benzoic acid	50.0		24.7	ug/L		49.3	(10%-77%)			
Benzyl alcohol	50.0		38.1	ug/L		76.3	(41%-88%)			
Bis(2-chloroethoxy)methane	50.0		39.7	ug/L		79.3	(54%-107%)			
Bis(2-chloroethyl)ether	50.0		35.7	ug/L		71.5	(46%-106%)			
Bis(2-chloroisopropyl)ether	50.0		31.2	ug/L		62.4	(44%-115%)			
Butyl benzyl phthalate	50.0		55.1	ug/L		110	(55%-122%)			
Carbazole	50.0		50.7	ug/L		101	(52%-124%)			
Chrysene	50.0		49.2	ug/L		98.5	(56%-105%)			
Di-n-butylphthalate	50.0		53.3	ug/L		107	(58%-119%)			
Di-n-octyl-phthalate	50.0		56.6	ug/L		113	(41%-136%)			
Dibenzo(a,h)anthracene	50.0		44.5	ug/L		89.1	(44%-126%)			
Dibenzofuran	50.0		47.7	ug/L		95.4	(54%-108%)			
Diethylphthalate	50.0		54.3	ug/L		109	(60%-112%)			
Dimethylphthalate	50.0		53.8	ug/L		108*	(59%-107%)			
Diphenylamine	50.0		46.4	ug/L		92.9	(55%-113%)			
Fluoranthene	50.0		46.0	ug/L		92	(57%-114%)			
Fluorene	50.0		46.1	ug/L		92.1	(52%-106%)			
Hexachlorobenzene	50.0		43.7	ug/L		87.4	(53%-115%)			
Hexachlorobutadiene	50.0		31.9	ug/L		63.7	(33%-98%)			
Hexachlorocyclopentadiene	50.0		38.6	ug/L		77.2	(10%-128%)			
Hexachloroethane	50.0		28.9	ug/L		57.8	(35%-92%)			
Indeno(1,2,3-cd)pyrene	50.0		48.9	ug/L		97.7	(45%-124%)			
Isophorone	50.0		43.6	ug/L		87.2	(52%-113%)			
Naphthalene	50.0		40.8	ug/L		81.6	(40%-93%)			
Nitrobenzene	50.0		40.4	ug/L		80.7	(48%-112%)			
Pentachlorophenol	50.0		44.8	ug/L		89.6	(44%-121%)			
Phenanthrene	50.0		43.1	ug/L		86.2	(54%-105%)			
Phenol	50.0		16.2	ug/L		32.3	(21%-45%)			
Pyrene	50.0		50.5	ug/L		101	(49%-115%)			
bis(2-Ethylhexyl)phthalate	50.0		51.8	ug/L		104	(55%-124%)			
n-Nitroso-di-n-propylamine	50.0		39.1	ug/L		78.1	(44%-118%)			
n-Nitrosodimethylamine	50.0		24.6	ug/L		49.3	(43%-68%)			

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Semi-Volatiles-GC/MS									
Batch	905143								
**2,4,6-Tribromophenol	100			ug/L		114	(39%-115%)		
**2-Fluorobiphenyl	50.0		49.4	ug/L		98.7	(35%-100%)	AGS1	09/23/09 19:42
**2-Fluorophenol	100		52.4	ug/L		52.4	(25%-92%)		
**Nitrobenzene-d5	50.0		43.4	ug/L		86.8	(40%-112%)		
**Phenol-d5	100		31.7	ug/L		31.7	(15%-73%)		
**p-Terphenyl-d14	50.0		58.5	ug/L		117	(46%-130%)		
QC1201929875	LCS	D							
1,2,4-Trichlorobenzene	50.0		40.1	ug/L	1.61	80.3	(0%-20%)		09/23/09 20:02
1,2-Dichlorobenzene	50.0		37.0	ug/L	2.41	73.9	(0%-20%)		
1,2-Diphenylhydrazine/Azobenzene	50.0		34.9	ug/L	1.91	69.8	(0%-20%)		
1,3-Dichlorobenzene	50.0		35.9	ug/L	3.74	71.8	(0%-20%)		
1,4-Dichlorobenzene	50.0		36.2	ug/L	3.14	72.5	(0%-20%)		
1-Methylnaphthalene	50.0		44.2	ug/L	1.01	88.4	(0%-20%)		
2,4,5-Trichlorophenol	50.0		47.8	ug/L	3.19	95.6	(0%-20%)		
2,4,6-Trichlorophenol	50.0		50.1	ug/L	2.03	100	(0%-20%)		
2,4-Dichlorophenol	50.0		49.4	ug/L	2.51	98.8	(0%-20%)		
2,4-Dimethylphenol	50.0		41.5	ug/L	0.472	83	(0%-20%)		
2,4-Dinitrophenol	50.0		51.1	ug/L	2.19	102	(0%-20%)		
2,4-Dinitrotoluene	50.0		50.7	ug/L	2.50	101	(0%-20%)		
2,6-Dinitrotoluene	50.0		47.5	ug/L	3.58	95	(0%-20%)		
2-Chloronaphthalene	50.0		41.5	ug/L	1.78	83.1	(0%-20%)		
2-Chlorophenol	50.0		43.2	ug/L	1.35	86.4	(0%-20%)		
2-Methylnaphthalene	50.0		42.4	ug/L	1.05	84.8	(0%-20%)		
2-Methylphenol	50.0		35.0	ug/L	4.37	69.9	(0%-20%)		
2-Nitroaniline	50.0		35.5	ug/L	1.83	71	(0%-20%)		
2-Nitrophenol	50.0		50.6	ug/L	1.85	101	(0%-20%)		
3,3-Dichlorobenzidine	50.0		47.0	ug/L	0.307	94	(0%-20%)		
3-Nitroaniline	50.0		48.6	ug/L	0.330	97.2	(0%-20%)		
4,6-Dinitro-2-methylphenol	50.0		49.7	ug/L	0.984	99.4	(0%-20%)		
4-Bromophenyl phenyl ether	50.0		54.4	ug/L	1.18	109*	(0%-20%)		
4-Chloro-3-methylphenol	50.0		46.2	ug/L	3.63	92.4	(0%-20%)		
4-Chloroaniline	50.0		46.6	ug/L	0.157	93.3	(0%-20%)		
4-Chlorophenyl-phenylether	50.0		49.3	ug/L	3.34	98.7	(0%-20%)		
4-Methylphenol	50.0		37.7	ug/L	2.68	75.3	(0%-20%)		
4-Nitroaniline	50.0		44.7	ug/L	0.746	89.3	(0%-20%)		
4-Nitrophenol	50.0		22.9	ug/L	2.22	45.8	(0%-20%)		
Acenaphthene	50.0		41.5	ug/L	2.29	83.1	(0%-20%)		
Acenaphthylene	50.0		44.4	ug/L	1.96	88.7	(0%-20%)		
Aniline	50.0		35.2	ug/L	4.94	70.4	(0%-20%)		
Anthracene	50.0		42.7	ug/L	3.89	85.4	(0%-20%)		
Benzidine	100		21.8	ug/L	60.6*	21.8	(0%-20%)		

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatiles-GC/MS										
Batch	905143									
Benzo(a)anthracene	50.0		44.9	ug/L	0.300	89.8	(0%-20%)			
Benzo(a)pyrene	50.0		47.9	ug/L	2.87	95.8	(0%-20%)	AGS1	09/23/09	20:02
Benzo(b)fluoranthene	50.0		48.4	ug/L	3.78	96.7	(0%-20%)			
Benzo(ghi)perylene	50.0		47.8	ug/L	1.19	95.7	(0%-20%)			
Benzo(k)fluoranthene	50.0		45.5	ug/L	9.85	91	(0%-20%)			
Benzoic acid	50.0		24.5	ug/L	0.507	49.1	(0%-20%)			
Benzyl alcohol	50.0		37.3	ug/L	2.30	74.6	(0%-20%)			
Bis(2-chloroethoxy)methane	50.0		38.6	ug/L	2.62	77.3	(0%-20%)			
Bis(2-chloroethyl)ether	50.0		35.3	ug/L	1.40	70.5	(0%-20%)			
Bis(2-chloroisopropyl)ether	50.0		30.5	ug/L	2.19	61.1	(0%-20%)			
Butyl benzyl phthalate	50.0		53.4	ug/L	3.01	107	(0%-20%)			
Carbazole	50.0		50.1	ug/L	1.13	100	(0%-20%)			
Chrysene	50.0		45.9	ug/L	6.93	91.9	(0%-20%)			
Di-n-butylphthalate	50.0		51.4	ug/L	3.59	103	(0%-20%)			
Di-n-octyl-phthalate	50.0		53.4	ug/L	5.85	107	(0%-20%)			
Dibenzo(a,h)anthracene	50.0		44.9	ug/L	0.795	89.8	(0%-20%)			
Dibenzofuran	50.0		46.6	ug/L	2.41	93.2	(0%-20%)			
Diethylphthalate	50.0		52.5	ug/L	3.34	105	(0%-20%)			
Dimethylphthalate	50.0		51.9	ug/L	3.61	104	(0%-20%)			
Diphenylamine	50.0		45.3	ug/L	2.59	90.5	(0%-20%)			
Fluoranthene	50.0		44.2	ug/L	4.04	88.4	(0%-20%)			
Fluorene	50.0		44.8	ug/L	2.72	89.7	(0%-20%)			
Hexachlorobenzene	50.0		42.6	ug/L	2.50	85.2	(0%-20%)			
Hexachlorobutadiene	50.0		33.1	ug/L	3.67	66.1	(0%-20%)			
Hexachlorocyclopentadiene	50.0		38.7	ug/L	0.207	77.3	(0%-20%)			
Hexachloroethane	50.0		30.4	ug/L	4.93	60.7	(0%-20%)			
Indeno(1,2,3-cd)pyrene	50.0		48.5	ug/L	0.719	97	(0%-20%)			
Isophorone	50.0		42.5	ug/L	2.48	85.1	(0%-20%)			
Naphthalene	50.0		40.4	ug/L	1.06	80.7	(0%-20%)			
Nitrobenzene	50.0		39.4	ug/L	2.40	78.8	(0%-20%)			
Pentachlorophenol	50.0		43.7	ug/L	2.47	87.4	(0%-20%)			
Phenanthrene	50.0		42.4	ug/L	1.51	84.9	(0%-20%)			
Phenol	50.0		15.5	ug/L	4.15	31	(0%-20%)			
Pyrene	50.0		49.7	ug/L	1.61	99.5	(0%-20%)			
bis(2-Ethylhexyl)phthalate	50.0		49.0	ug/L	5.54	98	(0%-20%)			
n-Nitroso-di-n-propylamine	50.0		37.8	ug/L	3.24	75.6	(0%-20%)			
n-Nitrosodimethylamine	50.0		24.6	ug/L	0.234	49.2	(0%-20%)			
**2,4,6-Tribromophenol	100		108	ug/L		108	(39%-115%)			
**2-Fluorobiphenyl	50.0		48.0	ug/L		95.9	(35%-100%)			
**2-Fluorophenol	100		51.7	ug/L		51.7	(25%-92%)			
**Nitrobenzene-d5	50.0		42.6	ug/L		85.3	(40%-112%)			
			30.4							

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatiles-GC/MS											
Batch	905143										
**Phenol-d5	100				ug/L		30.4	(15%-73%)			
**p-Terphenyl-d14	50.0			58.1	ug/L		116	(46%-130%)	AGS1	09/23/09	20:02
QC1201929873		MB									
1,2,4-Trichlorobenzene			U	ND	ug/L					09/23/09	19:22
1,2-Dichlorobenzene			U	ND	ug/L						
1,2-Diphenylhydrazine/Azobenzene			U	ND	ug/L						
1,3-Dichlorobenzene			U	ND	ug/L						
1,4-Dichlorobenzene			U	ND	ug/L						
1-Methylnaphthalene			U	ND	ug/L						
2,4,5-Trichlorophenol			U	ND	ug/L						
2,4,6-Trichlorophenol			U	ND	ug/L						
2,4-Dichlorophenol			U	ND	ug/L						
2,4-Dimethylphenol			U	ND	ug/L						
2,4-Dinitrophenol			U	ND	ug/L						
2,4-Dinitrotoluene			U	ND	ug/L						
2,6-Dinitrotoluene			U	ND	ug/L						
2-Chloronaphthalene			U	ND	ug/L						
2-Chlorophenol			U	ND	ug/L						
2-Methylnaphthalene			U	ND	ug/L						
2-Methylphenol			U	ND	ug/L						
2-Nitroaniline			U	ND	ug/L						
2-Nitrophenol			U	ND	ug/L						
3,3-Dichlorobenzidine			U	ND	ug/L						
3-Nitroaniline			U	ND	ug/L						
4,6-Dinitro-2-methylphenol			U	ND	ug/L						
4-Bromophenyl phenyl ether			U	ND	ug/L						
4-Chloro-3-methylphenol			U	ND	ug/L						
4-Chloroaniline			U	ND	ug/L						
4-Chlorophenyl-phenylether			U	ND	ug/L						
4-Methylphenol			U	ND	ug/L						
4-Nitroaniline			U	ND	ug/L						
4-Nitrophenol			U	ND	ug/L						
Acenaphthene			U	ND	ug/L						
Acenaphthylene			U	ND	ug/L						
Aniline			U	ND	ug/L						
Anthracene			U	ND	ug/L						
Benzidine			U	ND	ug/L						
Benzo(a)anthracene			U	ND	ug/L						
Benzo(a)pyrene			U	ND	ug/L						
Benzo(b)fluoranthene			U	ND	ug/L						
Benzo(ghi)perylene			U	ND	ug/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatiles-GC/MS											
Batch	905143										
Benzo(k)fluoranthene			U	ND	ug/L						
Benzoic acid			U	ND	ug/L				AGS1	09/23/09	19:22
Benzyl alcohol			U	ND	ug/L						
Bis(2-chloroethoxy)methane			U	ND	ug/L						
Bis(2-chloroethyl)ether			U	ND	ug/L						
Bis(2-chloroisopropyl)ether			U	ND	ug/L						
Butyl benzyl phthalate			U	ND	ug/L						
Carbazole			U	ND	ug/L						
Chrysene			U	ND	ug/L						
Di-n-butylphthalate			U	ND	ug/L						
Di-n-octyl-phthalate			U	ND	ug/L						
Dibenzo(a,h)anthracene			U	ND	ug/L						
Dibenzofuran			U	ND	ug/L						
Diethylphthalate			U	ND	ug/L						
Dimethylphthalate			U	ND	ug/L						
Diphenylamine			U	ND	ug/L						
Fluoranthene			U	ND	ug/L						
Fluorene			U	ND	ug/L						
Hexachlorobenzene			U	ND	ug/L						
Hexachlorobutadiene			U	ND	ug/L						
Hexachlorocyclopentadiene			U	ND	ug/L						
Hexachloroethane			U	ND	ug/L						
Indeno(1,2,3-cd)pyrene			U	ND	ug/L						
Isophorone			U	ND	ug/L						
Naphthalene			U	ND	ug/L						
Nitrobenzene			U	ND	ug/L						
Pentachlorophenol			U	ND	ug/L						
Phenanthrene			U	ND	ug/L						
Phenol			U	ND	ug/L						
Pyrene			U	ND	ug/L						
bis(2-Ethylhexyl)phthalate			U	ND	ug/L						
n-Nitroso-di-n-propylamine			U	ND	ug/L						
n-Nitrosodimethylamine			U	ND	ug/L						
**2,4,6-Tribromophenol	100			100	ug/L		100	(39%-115%)			
**2-Fluorobiphenyl	50.0			45.7	ug/L		91.5	(35%-100%)			
**2-Fluorophenol	100			49.3	ug/L		49.3	(25%-92%)			
**Nitrobenzene-d5	50.0			40.4	ug/L		80.9	(40%-112%)			
**Phenol-d5	100			29.3	ug/L		29.3	(15%-73%)			
**p-Terphenyl-d14	50.0			56.6	ug/L		113	(46%-130%)			
Semi-Volatiles-PCB											
Batch	905196										
QC1201929989	LCS										

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatiles-PCB											
Batch	905196										
Aroclor-1016	1.00			0.630	ug/L		63	(42%-110%)	YS1	09/24/09	11:02
Aroclor-1260	1.00			0.780	ug/L		78	(50%-110%)			
**4cmx	0.200			0.122	ug/L		60.9	(29%-103%)			
**Decachlorobiphenyl	0.200			0.121	ug/L		60.6	(34%-118%)			
QC1201929988	MB										
Aroclor-1016			U	ND	ug/L					09/24/09	10:52
Aroclor-1221			U	ND	ug/L						
Aroclor-1232			U	ND	ug/L						
Aroclor-1242			U	ND	ug/L						
Aroclor-1248			U	ND	ug/L						
Aroclor-1254			U	ND	ug/L						
Aroclor-1260			U	ND	ug/L						
**4cmx	0.200			0.117	ug/L		58.3	(29%-103%)			
**Decachlorobiphenyl	0.200			0.123	ug/L		61.7	(34%-118%)			
QC1201929990	237391003 MS										
Aroclor-1016	4.00	U	ND	2.30	ug/L		57.5	(22%-114%)		09/24/09	11:23
Aroclor-1260	4.00	U	ND	2.60	ug/L		65	(32%-112%)			
**4cmx	0.800		0.516	0.477	ug/L		59.6	(29%-103%)			
**Decachlorobiphenyl	0.800		0.454	0.414	ug/L		51.7	(34%-118%)			
QC1201929991	237391003 MSD										
Aroclor-1016	4.00	U	ND	2.50	ug/L	8.33	62.5	(0%-30%)		09/24/09	11:33
Aroclor-1260	4.00	U	ND	2.70	ug/L	3.77	67.5	(0%-30%)			
**4cmx	0.800		0.516	0.540	ug/L		67.5	(29%-103%)			
**Decachlorobiphenyl	0.800		0.454	0.446	ug/L		55.8	(34%-118%)			
Volatile-GC/MS											
Batch	905130										
QC1201929845	LCS										
1,1,1,2-Tetrachloroethane	50.0			47.5	ug/L		95	(79%-124%)	AXO1	09/22/09	10:57
1,1,1-Trichloroethane	50.0			49.9	ug/L		99.7	(73%-132%)			
1,1,2,2-Tetrachloroethane	50.0			46.1	ug/L		92.3	(71%-121%)			
1,1,2-Trichloroethane	50.0			48.9	ug/L		97.7	(76%-120%)			
1,1-Dichloroethane	50.0			49.3	ug/L		98.5	(75%-121%)			
1,1-Dichloroethene	50.0			58.3	ug/L		117	(70%-128%)			
1,1-Dichloropropene	50.0			54.3	ug/L		109	(75%-128%)			
1,2,3-Trichlorobenzene	50.0			49.7	ug/L		99.5	(67%-133%)			
1,2,3-Trichloropropane	50.0			47.2	ug/L		94.4	(72%-134%)			
1,2,4-Trichlorobenzene	50.0			49.9	ug/L		99.9	(66%-135%)			
1,2,4-Trimethylbenzene	50.0			45.9	ug/L		91.9	(74%-123%)			
1,2-Dibromo-3-chloropropane	50.0			49.7	ug/L		99.4	(67%-141%)			
1,2-Dibromoethane (EDB)	50.0			48.2	ug/L		96.3	(66%-132%)			
1,2-Dichlorobenzene	50.0			46.6	ug/L		93.1	(76%-120%)			
1,2-Dichloroethane	50.0			41.8	ug/L		83.6	(70%-123%)			
1,2-Dichloropropane	50.0			49.3	ug/L		98.6	(75%-121%)			

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS										
Batch	905130									
1,3,5-Trimethylbenzene	50.0		46.0	ug/L		92	(73%-124%)			
1,3-Dichlorobenzene	50.0		49.1	ug/L		98.2	(74%-120%)	AXO1	09/22/09	10:57
1,3-Dichloropropane	50.0		47.7	ug/L		95.4	(73%-120%)			
1,4-Dichlorobenzene	50.0		47.4	ug/L		94.7	(74%-120%)			
2,2-Dichloropropane	50.0		51.6	ug/L		103	(72%-140%)			
2-Butanone (MEK)	250		142	ug/L		57	(31%-160%)			
2-Chloroethyl vinyl ether	250		241	ug/L		96.3	(40%-135%)			
2-Chlorotoluene	50.0		45.6	ug/L		91.2	(71%-121%)			
2-Hexanone	250		149	ug/L		59.7	(34%-162%)			
4-Chlorotoluene	50.0		47.1	ug/L		94.2	(74%-120%)			
4-Methyl-2-pentanone (MIBK)	250		215	ug/L		86.1	(68%-132%)			
Acetone	250		116	ug/L		46.4	(28%-157%)			
Benzene	50.0		49.6	ug/L		99.2	(72%-120%)			
Bromobenzene	50.0		47.6	ug/L		95.3	(74%-120%)			
Bromochloromethane	50.0		46.3	ug/L		92.7	(76%-123%)			
Bromodichloromethane	50.0		48.4	ug/L		96.9	(77%-130%)			
Bromoform	50.0		47.4	ug/L		94.8	(77%-139%)			
Bromomethane	50.0		53.0	ug/L		106	(63%-131%)			
Carbon tetrachloride	50.0		51.0	ug/L		102	(75%-139%)			
Chlorobenzene	50.0		48.7	ug/L		97.4	(76%-120%)			
Chloroethane	50.0		57.2	ug/L		114	(67%-126%)			
Chloroform	50.0		47.2	ug/L		94.4	(76%-121%)			
Chloromethane	50.0		53.1	ug/L		106	(52%-139%)			
Dibromochloromethane	50.0		46.8	ug/L		93.6	(82%-131%)			
Dibromomethane	50.0		46.3	ug/L		92.5	(77%-124%)			
Dichlorodifluoromethane	50.0		63.6	ug/L		127	(35%-156%)			
Ethylbenzene	50.0		47.5	ug/L		95	(75%-120%)			
Hexachlorobutadiene	50.0		47.6	ug/L		95.2	(68%-129%)			
Isopropylbenzene	50.0		40.6	ug/L		81.2	(58%-138%)			
Methyl-tert-butyl Ether (MTBE)	50.0		45.7	ug/L		91.4	(70%-129%)			
Methylene chloride	50.0		48.5	ug/L		97	(72%-131%)			
Styrene	50.0		49.2	ug/L		98.4	(76%-126%)			
Tetrachloroethene	50.0		49.0	ug/L		98.1	(72%-126%)			
Toluene	50.0		47.6	ug/L		95.2	(74%-120%)			
Trichloroethene	50.0		51.9	ug/L		104	(76%-123%)			
Trichlorofluoromethane	50.0		55.7	ug/L		111	(66%-153%)			
Vinyl chloride	50.0		57.5	ug/L		115	(61%-131%)			
cis-1,2-Dichloroethene	50.0		49.8	ug/L		99.6	(77%-124%)			
cis-1,3-Dichloropropene	50.0		51.7	ug/L		103	(79%-127%)			
m,p-Xylenes	100		97.2	ug/L		97.2	(64%-130%)			
n-Butylbenzene	50.0		50.2	ug/L		100	(74%-130%)			
			46.1							

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Volatile-GC/MS										
Batch	905130									
n-Propylbenzene	50.0			ug/L		92.2	(70%-124%)			
o-Xylene	50.0		49.8	ug/L		99.6	(75%-121%)	AXO1	09/22/09	10:57
p-Isopropyltoluene	50.0		50.1	ug/L		100	(74%-131%)			
sec-Butylbenzene	50.0		49.4	ug/L		98.7	(72%-126%)			
tert-Butylbenzene	50.0		48.9	ug/L		97.8	(73%-125%)			
trans-1,2-Dichloroethene	50.0		48.1	ug/L		96.2	(71%-124%)			
trans-1,3-Dichloropropene	50.0		50.2	ug/L		100	(81%-127%)			
**1,2-Dichloroethane-d4	50.0		44.5	ug/L		89	(59%-130%)			
**Bromofluorobenzene	50.0		49.5	ug/L		99.1	(71%-126%)			
**Toluene-d8	50.0		50.3	ug/L		101	(76%-129%)			
QC1201929846	LCS									
1,1,2-Trichloro-1,2,2-trifluoroethane	250		268	ug/L		107	(52%-141%)		09/22/09	11:30
2-Chloro-1,1,1-trifluoroethane	150		148	ug/L		98.7	(66%-128%)			
Chlorotrifluoroethylene	150		187	ug/L		125	(38%-146%)			
**1,2-Dichloroethane-d4	50.0		43.6	ug/L		87.2	(59%-130%)			
**Bromofluorobenzene	50.0		48.3	ug/L		96.7	(71%-126%)			
**Toluene-d8	50.0		50.2	ug/L		100	(76%-129%)			
QC1201929842	MB									
1,1,1,2-Tetrachloroethane		U	ND	ug/L					09/22/09	13:08
1,1,1-Trichloroethane		U	ND	ug/L						
1,1,2,2-Tetrachloroethane		U	ND	ug/L						
1,1,2-Trichloro-1,2,2-trifluoroethane		U	ND	ug/L						
1,1,2-Trichloroethane		U	ND	ug/L						
1,1-Dichloroethane		U	ND	ug/L						
1,1-Dichloroethene		U	ND	ug/L						
1,1-Dichloropropene		U	ND	ug/L						
1,2,3-Trichlorobenzene		U	ND	ug/L						
1,2,3-Trichloropropane		U	ND	ug/L						
1,2,4-Trichlorobenzene		U	ND	ug/L						
1,2,4-Trimethylbenzene		U	ND	ug/L						
1,2-Dibromo-3-chloropropane		U	ND	ug/L						
1,2-Dibromoethane (EDB)		U	ND	ug/L						
1,2-Dichlorobenzene		U	ND	ug/L						
1,2-Dichloroethane		U	ND	ug/L						
1,2-Dichloropropane		U	ND	ug/L						
1,3,5-Trimethylbenzene		U	ND	ug/L						
1,3-Dichlorobenzene		U	ND	ug/L						
1,3-Dichloropropane		U	ND	ug/L						
1,4-Dichlorobenzene		U	ND	ug/L						
2,2-Dichloropropane		U	ND	ug/L						
2-Butanone (MEK)		U	ND	ug/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	905130										
2-Chloro-1,1,1-trifluoroethane			U	ND	ug/L						
2-Chloroethyl vinyl ether			U	ND	ug/L				AXO1	09/22/09	13:08
2-Chlorotoluene			U	ND	ug/L						
2-Hexanone			U	ND	ug/L						
4-Chlorotoluene			U	ND	ug/L						
4-Methyl-2-pentanone (MIBK)			U	ND	ug/L						
Acetone			U	ND	ug/L						
Benzene			U	ND	ug/L						
Bromobenzene			U	ND	ug/L						
Bromochloromethane			U	ND	ug/L						
Bromodichloromethane			U	ND	ug/L						
Bromoform			U	ND	ug/L						
Bromomethane			U	ND	ug/L						
Carbon tetrachloride			U	ND	ug/L						
Chlorobenzene			U	ND	ug/L						
Chloroethane			U	ND	ug/L						
Chloroform			U	ND	ug/L						
Chloromethane			U	ND	ug/L						
Chlorotrifluoroethylene			U	ND	ug/L						
Dibromochloromethane			U	ND	ug/L						
Dibromomethane			U	ND	ug/L						
Dichlorodifluoromethane			U	ND	ug/L						
Ethylbenzene			U	ND	ug/L						
Hexachlorobutadiene			U	ND	ug/L						
Isopropylbenzene			U	ND	ug/L						
Methyl-tert-butyl Ether (MTBE)			U	ND	ug/L						
Methylene chloride			U	ND	ug/L						
Styrene			U	ND	ug/L						
Tetrachloroethene			U	ND	ug/L						
Toluene			U	ND	ug/L						
Trichloroethene			U	ND	ug/L						
Trichlorofluoromethane			U	ND	ug/L						
Vinyl chloride			U	ND	ug/L						
cis-1,2-Dichloroethene			U	ND	ug/L						
cis-1,3-Dichloropropene			U	ND	ug/L						
m,p-Xylenes			U	ND	ug/L						
n-Butylbenzene			U	ND	ug/L						
n-Propylbenzene			U	ND	ug/L						
o-Xylene			U	ND	ug/L						
p-Isopropyltoluene			U	ND	ug/L						
sec-Butylbenzene			U	ND	ug/L						
			U	ND							

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QC Summary

Workorder: 237576

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	905130										
tert-Butylbenzene					ug/L						
trans-1,2-Dichloroethene			U	ND	ug/L				AXO1	09/22/09	13:08
trans-1,3-Dichloropropene			U	ND	ug/L						
**1,2-Dichloroethane-d4	50.0			45.0	ug/L		90.1	(59%-130%)			
**Bromofluorobenzene	50.0			49.4	ug/L		98.9	(71%-126%)			
**Toluene-d8	50.0			50.0	ug/L		99.9	(76%-129%)			
QC1201929843 237576001 PS											
1,1,1,2-Tetrachloroethane	50.0	U	ND	47.9	ug/L		95.9	(73%-127%)		09/22/09	20:16
1,1,1-Trichloroethane	50.0	U	ND	48.8	ug/L		97.6	(66%-132%)			
1,1,2,2-Tetrachloroethane	50.0	U	ND	45.7	ug/L		91.3	(66%-128%)			
1,1,2-Trichloroethane	50.0	U	ND	47.6	ug/L		95.1	(71%-125%)			
1,1-Dichloroethane	50.0	U	ND	48.9	ug/L		97.8	(69%-125%)			
1,1-Dichloroethene	50.0	U	ND	51.6	ug/L		103	(61%-129%)			
1,1-Dichloropropene	50.0	U	ND	51.3	ug/L		103	(68%-128%)			
1,2,3-Trichlorobenzene	50.0	U	ND	48.6	ug/L		97.3	(59%-136%)			
1,2,3-Trichloropropane	50.0	U	ND	49.3	ug/L		98.7	(67%-141%)			
1,2,4-Trichlorobenzene	50.0	U	ND	47.9	ug/L		95.8	(56%-134%)			
1,2,4-Trimethylbenzene	50.0	U	ND	44.8	ug/L		89.6	(62%-130%)			
1,2-Dibromo-3-chloropropane	50.0	U	ND	49.6	ug/L		99.1	(62%-146%)			
1,2-Dibromoethane (EDB)	50.0	U	ND	47.5	ug/L		95	(73%-126%)			
1,2-Dichlorobenzene	50.0	U	ND	46.4	ug/L		92.7	(66%-122%)			
1,2-Dichloroethane	50.0	U	ND	45.1	ug/L		90.3	(65%-129%)			
1,2-Dichloropropane	50.0	U	ND	49.5	ug/L		99	(71%-125%)			
1,3,5-Trimethylbenzene	50.0	U	ND	44.5	ug/L		88.9	(62%-130%)			
1,3-Dichlorobenzene	50.0	U	ND	47.4	ug/L		94.8	(65%-123%)			
1,3-Dichloropropane	50.0	U	ND	46.9	ug/L		93.7	(69%-124%)			
1,4-Dichlorobenzene	50.0	U	ND	46.2	ug/L		92.5	(64%-120%)			
2,2-Dichloropropane	50.0	U	ND	50.4	ug/L		101	(61%-134%)			
2-Butanone (MEK)	250	U	ND	141	ug/L		56.4	(11%-151%)			
2-Chloroethyl vinyl ether	250	U	ND	225	ug/L		89.9	(45%-140%)			
2-Chlorotoluene	50.0	U	ND	44.3	ug/L		88.5	(62%-126%)			
2-Hexanone	250	U	ND	147	ug/L		58.9	(28%-143%)			
4-Chlorotoluene	50.0	U	ND	46.0	ug/L		92.1	(64%-124%)			
4-Methyl-2-pentanone (MIBK)	250	U	ND	204	ug/L		81.8	(64%-133%)			
Acetone	250	U	ND	118	ug/L		47.2	(14%-150%)			
Benzene	50.0	U	ND	47.3	ug/L		94.7	(66%-121%)			
Bromobenzene	50.0	U	ND	46.5	ug/L		93	(67%-124%)			
Bromochloromethane	50.0	U	ND	48.8	ug/L		97.6	(71%-129%)			
Bromodichloromethane	50.0	U	ND	50.5	ug/L		101	(72%-134%)			
Bromoform	50.0	U	ND	49.3	ug/L		98.6	(72%-143%)			
Bromomethane	50.0	U	ND	48.6	ug/L		97.1	(54%-136%)			
Carbon tetrachloride	50.0	U	ND	50.5	ug/L		101	(66%-138%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	905130										
Chlorobenzene	50.0	U	ND	47.2	ug/L		94.4	(69%-120%)			
Chloroethane	50.0	U	ND	50.5	ug/L		101	(60%-129%)	AXO1	09/22/09	20:16
Chloroform	50.0	U	ND	48.8	ug/L		97.6	(70%-126%)			
Chloromethane	50.0	U	ND	50.7	ug/L		101	(47%-140%)			
Dibromochloromethane	50.0	U	ND	47.9	ug/L		95.7	(76%-135%)			
Dibromomethane	50.0	U	ND	48.2	ug/L		96.5	(71%-130%)			
Dichlorodifluoromethane	50.0	U	ND	59.7	ug/L		119	(31%-151%)			
Ethylbenzene	50.0	U	ND	45.6	ug/L		91.1	(65%-123%)			
Hexachlorobutadiene	50.0	U	ND	43.8	ug/L		87.7	(53%-132%)			
Isopropylbenzene	50.0	U	ND	38.7	ug/L		77.5	(60%-132%)			
Methyl-tert-butyl Ether (MTBE)	50.0	U	ND	46.9	ug/L		93.8	(65%-133%)			
Methylene chloride	50.0	U	ND	48.7	ug/L		97.4	(68%-134%)			
Styrene	50.0	U	ND	47.8	ug/L		95.5	(66%-131%)			
Tetrachloroethene	50.0	U	ND	44.9	ug/L		89.8	(63%-126%)			
Toluene	50.0	U	ND	45.5	ug/L		91	(65%-124%)			
Trichloroethene	50.0	U	ND	49.8	ug/L		99.7	(66%-127%)			
Trichlorofluoromethane	50.0	U	ND	53.5	ug/L		107	(58%-151%)			
Vinyl chloride	50.0	U	ND	50.7	ug/L		101	(51%-134%)			
cis-1,2-Dichloroethene	50.0	U	ND	50.4	ug/L		101	(71%-128%)			
cis-1,3-Dichloropropene	50.0	U	ND	51.3	ug/L		103	(71%-129%)			
m,p-Xylenes	100	U	ND	91.2	ug/L		91.2	(64%-125%)			
n-Butylbenzene	50.0	U	ND	46.9	ug/L		93.8	(58%-135%)			
n-Propylbenzene	50.0	U	ND	43.5	ug/L		87.1	(60%-127%)			
o-Xylene	50.0	U	ND	47.8	ug/L		95.6	(66%-126%)			
p-Isopropyltoluene	50.0	U	ND	47.4	ug/L		94.9	(61%-135%)			
sec-Butylbenzene	50.0	U	ND	46.7	ug/L		93.4	(61%-131%)			
tert-Butylbenzene	50.0	U	ND	46.8	ug/L		93.7	(64%-129%)			
trans-1,2-Dichloroethene	50.0	U	ND	47.0	ug/L		93.9	(64%-126%)			
trans-1,3-Dichloropropene	50.0	U	ND	49.1	ug/L		98.2	(73%-130%)			
**1,2-Dichloroethane-d4	50.0		46.6	47.7	ug/L		95.4	(59%-130%)			
**Bromofluorobenzene	50.0		50.0	48.8	ug/L		97.6	(71%-126%)			
**Toluene-d8	50.0		50.3	48.8	ug/L		97.6	(76%-129%)			
QC1201929844 237576001 PSD											
1,1,1,2-Tetrachloroethane	50.0	U	ND	47.2	ug/L	1.48	94.5	(0%-20%)		09/22/09	20:49
1,1,1-Trichloroethane	50.0	U	ND	46.3	ug/L	5.33	92.6	(0%-20%)			
1,1,2,2-Tetrachloroethane	50.0	U	ND	46.3	ug/L	1.39	92.6	(0%-20%)			
1,1,2-Trichloroethane	50.0	U	ND	47.8	ug/L	0.560	95.6	(0%-20%)			
1,1-Dichloroethane	50.0	U	ND	48.1	ug/L	1.64	96.2	(0%-20%)			
1,1-Dichloroethene	50.0	U	ND	51.4	ug/L	0.402	103	(0%-20%)			
1,1-Dichloropropene	50.0	U	ND	49.8	ug/L	3.00	99.6	(0%-20%)			
1,2,3-Trichlorobenzene	50.0	U	ND	49.0	ug/L	0.827	98.1	(0%-20%)			
1,2,3-Trichloropropane	50.0	U	ND	48.3	ug/L	2.07	96.7	(0%-20%)			

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QC Summary

Workorder: 237576

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	905130										
1,2,4-Trichlorobenzene	50.0	U	ND	46.9	ug/L	1.99	93.9	(0%-20%)			
1,2,4-Trimethylbenzene	50.0	U	ND	43.9	ug/L	1.98	87.9	(0%-20%)	AXO1	09/22/09	20:49
1,2-Dibromo-3-chloropropane	50.0	U	ND	50.4	ug/L	1.72	101	(0%-20%)			
1,2-Dibromoethane (EDB)	50.0	U	ND	48.8	ug/L	2.63	97.5	(0%-20%)			
1,2-Dichlorobenzene	50.0	U	ND	45.7	ug/L	1.51	91.3	(0%-20%)			
1,2-Dichloroethane	50.0	U	ND	44.0	ug/L	2.63	87.9	(0%-20%)			
1,2-Dichloropropane	50.0	U	ND	47.6	ug/L	4.00	95.1	(0%-20%)			
1,3,5-Trimethylbenzene	50.0	U	ND	43.2	ug/L	3.00	86.3	(0%-20%)			
1,3-Dichlorobenzene	50.0	U	ND	47.0	ug/L	0.745	94	(0%-20%)			
1,3-Dichloropropane	50.0	U	ND	47.9	ug/L	2.11	95.7	(0%-20%)			
1,4-Dichlorobenzene	50.0	U	ND	46.2	ug/L	0.151	92.3	(0%-20%)			
2,2-Dichloropropane	50.0	U	ND	45.7	ug/L	9.76	91.5	(0%-20%)			
2-Butanone (MEK)	250	U	ND	143	ug/L	1.47	57.3	(0%-20%)			
2-Chloroethyl vinyl ether	250	U	ND	229	ug/L	1.92	91.6	(0%-20%)			
2-Chlorotoluene	50.0	U	ND	43.5	ug/L	1.78	86.9	(0%-20%)			
2-Hexanone	250	U	ND	151	ug/L	2.68	60.5	(0%-20%)			
4-Chlorotoluene	50.0	U	ND	44.8	ug/L	2.73	89.6	(0%-20%)			
4-Methyl-2-pentanone (MIBK)	250	U	ND	212	ug/L	3.74	84.9	(0%-20%)			
Acetone	250	U	ND	118	ug/L	0.174	47.3	(0%-20%)			
Benzene	50.0	U	ND	46.4	ug/L	1.95	92.9	(0%-20%)			
Bromobenzene	50.0	U	ND	45.6	ug/L	1.99	91.2	(0%-20%)			
Bromochloromethane	50.0	U	ND	47.4	ug/L	2.97	94.8	(0%-20%)			
Bromodichloromethane	50.0	U	ND	49.2	ug/L	2.46	98.5	(0%-20%)			
Bromoform	50.0	U	ND	48.1	ug/L	2.38	96.3	(0%-20%)			
Bromomethane	50.0	U	ND	50.7	ug/L	4.20	101	(0%-20%)			
Carbon tetrachloride	50.0	U	ND	47.5	ug/L	6.13	95.1	(0%-20%)			
Chlorobenzene	50.0	U	ND	47.3	ug/L	0.160	94.6	(0%-20%)			
Chloroethane	50.0	U	ND	50.1	ug/L	0.960	100	(0%-20%)			
Chloroform	50.0	U	ND	46.7	ug/L	4.42	93.4	(0%-20%)			
Chloromethane	50.0	U	ND	49.8	ug/L	1.76	99.6	(0%-20%)			
Dibromochloromethane	50.0	U	ND	47.5	ug/L	0.682	95.1	(0%-20%)			
Dibromomethane	50.0	U	ND	47.2	ug/L	2.08	94.5	(0%-20%)			
Dichlorodifluoromethane	50.0	U	ND	57.7	ug/L	3.37	115	(0%-20%)			
Ethylbenzene	50.0	U	ND	44.8	ug/L	1.76	89.5	(0%-20%)			
Hexachlorobutadiene	50.0	U	ND	43.0	ug/L	1.93	86	(0%-20%)			
Isopropylbenzene	50.0	U	ND	37.5	ug/L	3.38	74.9	(0%-20%)			
Methyl-tert-butyl Ether (MTBE)	50.0	U	ND	46.2	ug/L	1.52	92.4	(0%-20%)			
Methylene chloride	50.0	U	ND	47.2	ug/L	3.21	94.3	(0%-20%)			
Styrene	50.0	U	ND	47.9	ug/L	0.194	95.7	(0%-20%)			
Tetrachloroethene	50.0	U	ND	44.0	ug/L	2.01	88	(0%-20%)			
Toluene	50.0	U	ND	44.8	ug/L	1.49	89.7	(0%-20%)			
				48.3							

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	905130										
Trichloroethene	50.0	U	ND		ug/L	3.19	96.5	(0%-20%)			
Trichlorofluoromethane	50.0	U	ND	50.9	ug/L	5.11	102	(0%-20%)	AXO1	09/22/09	20:49
Vinyl chloride	50.0	U	ND	50.1	ug/L	1.09	100	(0%-20%)			
cis-1,2-Dichloroethene	50.0	U	ND	48.5	ug/L	3.74	97	(0%-20%)			
cis-1,3-Dichloropropene	50.0	U	ND	50.6	ug/L	1.38	101	(0%-20%)			
m,p-Xylenes	100	U	ND	90.4	ug/L	0.847	90.4	(0%-20%)			
n-Butylbenzene	50.0	U	ND	45.4	ug/L	3.22	90.8	(0%-20%)			
n-Propylbenzene	50.0	U	ND	42.4	ug/L	2.70	84.7	(0%-20%)			
o-Xylene	50.0	U	ND	47.5	ug/L	0.683	95	(0%-20%)			
p-Isopropyltoluene	50.0	U	ND	46.0	ug/L	3.02	92.1	(0%-20%)			
sec-Butylbenzene	50.0	U	ND	45.1	ug/L	3.60	90.1	(0%-20%)			
tert-Butylbenzene	50.0	U	ND	45.6	ug/L	2.67	91.2	(0%-20%)			
trans-1,2-Dichloroethene	50.0	U	ND	45.4	ug/L	3.43	90.8	(0%-20%)			
trans-1,3-Dichloropropene	50.0	U	ND	49.0	ug/L	0.168	98.1	(0%-20%)			
**1,2-Dichloroethane-d4	50.0		46.6	46.9	ug/L		93.8	(59%-130%)			
**Bromofluorobenzene	50.0		50.0	48.7	ug/L		97.4	(71%-126%)			
**Toluene-d8	50.0		50.3	49.2	ug/L		98.4	(76%-129%)			

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.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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QC Summary

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Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
P	Organics--	The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%								
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
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



SAMPLE RECEIPT & REVIEW FORM

Client: SSFL SDG/ARCOC/Work Order: 237576

Received By: SL Date Received: 9/19/09

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*: <u>40cpm</u>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	
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>50</u> ice bags blue ice dry ice none other (describe)
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: Fed Ex 7979 4647 5030



March 02, 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: 237620
SDG: 237620

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 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

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620001

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0100D001

LEVEL: Low

DATE RECEIVED 22-SEP-09

MATRIX: SOIL

%SOLIDS: 92.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.223	mg/kg		0.0215	0.215	0.2	2	MS	BAJ	09/25/09 03:07	090924-1	905164
7439-92-1	Lead	6.55	mg/kg		0.107	0.43	0.4	2	MS	BAJ	09/25/09 03:07	090924-1	905164
7440-66-6	Zinc	59	mg/kg		2.15	10.7	5	10	MS	BAJ	09/25/09 18:08	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.501	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620002

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0100S001

LEVEL: Low

DATE RECEIVED 22-SEP-09

MATRIX: SOIL

%SOLIDS: 97.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.329	mg/kg		0.0204	0.204	0.2	2	MS	BAJ	09/25/09 03:14	090924-1	905164
7439-92-1	Lead	9.43	mg/kg		0.102	0.409	0.4	2	MS	BAJ	09/25/09 03:14	090924-1	905164
7440-66-6	Zinc	69.4	mg/kg		2.04	10.2	5	10	MS	BAJ	09/25/09 18:10	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.5	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620003

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0101S001

LEVEL: Low

DATE RECEIVED 22-SEP-09

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.254	mg/kg		0.022	0.22	0.2	2	MS	BAJ	09/25/09 03:20	090924-1	905164
7439-92-1	Lead	5.93	mg/kg		0.11	0.439	0.4	2	MS	BAJ	09/25/09 03:20	090924-1	905164
7440-66-6	Zinc	61.1	mg/kg		2.2	11	5	10	MS	BAJ	09/25/09 18:11	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.519	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620004

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0101S002

LEVEL: Low

DATE RECEIVED 22-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
7440-43-9	Cadmium	0.125	mg/kg	J	0.0211	0.211	0.2	2	MS	BAJ	09/25/09 03:26	090924-1	905164
7439-92-1	Lead	5.02	mg/kg		0.106	0.422	0.4	2	MS	BAJ	09/25/09 03:26	090924-1	905164
7440-66-6	Zinc	48.5	mg/kg		2.11	10.6	5	10	MS	BAJ	09/25/09 18:13	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.516	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620005

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0102S001

LEVEL: Low

DATE RECEIVED 22-SEP-09

MATRIX: SOIL

%SOLIDS: 90.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.158	mg/kg	J	0.0213	0.213	0.2	2	MS	BAJ	09/25/09 03:44	090924-1	905164
7439-92-1	Lead	5.53	mg/kg		0.107	0.427	0.4	2	MS	BAJ	09/25/09 03:44	090924-1	905164
7440-66-6	Zinc	52	mg/kg		2.13	10.7	5	10	MS	BAJ	09/25/09 18:19	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.52	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620006

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0103S001

LEVEL: Low

DATE RECEIVED 22-SEP-09

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.226	mg/kg	J	0.0245	0.245	0.2	2	MS	BAJ	09/25/09 04:15	090924-1	905164
7439-92-1	Lead	6.69	mg/kg		0.122	0.49	0.4	2	MS	BAJ	09/25/09 04:15	090924-1	905164
7440-66-6	Zinc	82.2	mg/kg		2.45	12.2	5	10	MS	BAJ	09/25/09 18:28	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.501	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620007

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0103S002

LEVEL: Low

DATE RECEIVED 22-SEP-09

MATRIX: SOIL

%SOLIDS: 94.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.149	mg/kg	J	0.0202	0.202	0.2	2	MS	BAJ	09/25/09 04:21	090924-1	905164
7439-92-1	Lead	5.3	mg/kg		0.101	0.403	0.4	2	MS	BAJ	09/25/09 04:21	090924-1	905164
7440-66-6	Zinc	53.3	mg/kg		2.02	10.1	5	10	MS	BAJ	09/25/09 18:29	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.524	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620008 **BASIS:** Dry Weight **DATE COLLECTED** 21-SEP-09

CLIENT ID: HZET0600D001 **LEVEL:** Low **DATE RECEIVED** 22-SEP-09

MATRIX: SOIL **%SOLIDS:** 92.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.113	mg/kg	J	0.0214	0.214	0.2	2	MS	BAJ	09/25/09 04:40	090924-1	905164
7439-92-1	Lead	5.45	mg/kg		0.107	0.427	0.4	2	MS	BAJ	09/25/09 04:40	090924-1	905164
7440-66-6	Zinc	53	mg/kg		2.14	10.7	5	10	MS	BAJ	09/25/09 18:35	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.507	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620009

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0600S001

LEVEL: Low

DATE RECEIVED 22-SEP-09

MATRIX: SOIL

%SOLIDS: 90.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.0846	mg/kg	J	0.0213	0.213	0.2	2	MS	BAJ	09/25/09 04:46	090924-1	905164
7439-92-1	Lead	4.39	mg/kg		0.107	0.426	0.4	2	MS	BAJ	09/25/09 04:46	090924-1	905164
7440-66-6	Zinc	47.9	mg/kg		2.13	10.7	5	10	MS	BAJ	09/25/09 18:37	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.516	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620010

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0601S001

LEVEL: Low

DATE RECEIVED 22-SEP-09

MATRIX: SOIL

%SOLIDS: 90.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.146	mg/kg	J	0.0218	0.218	0.2	2	MS	BAJ	09/25/09 04:52	090924-1	905164
7439-92-1	Lead	6.03	mg/kg		0.109	0.437	0.4	2	MS	BAJ	09/25/09 04:52	090924-1	905164
7440-66-6	Zinc	46.6	mg/kg		2.18	10.9	5	10	MS	BAJ	09/25/09 18:39	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.507	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620011

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0602S001

LEVEL: Low

DATE RECEIVED 22-SEP-09

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.109	mg/kg	J	0.0216	0.216	0.2	2	MS	BAJ	09/25/09 04:58	090924-1	905164
7439-92-1	Lead	4.36	mg/kg		0.108	0.433	0.4	2	MS	BAJ	09/25/09 04:58	090924-1	905164
7440-66-6	Zinc	38.8	mg/kg		2.16	10.8	5	10	MS	BAJ	09/25/09 18:40	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.52	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620012

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0603S001

LEVEL: Low

DATE RECEIVED 22-SEP-09

MATRIX: SOIL

%SOLIDS: 93.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.173	mg/kg	J	0.0213	0.213	0.2	2	MS	BAJ	09/25/09 05:04	090924-1	905164
7439-92-1	Lead	6.64	mg/kg		0.107	0.426	0.4	2	MS	BAJ	09/25/09 05:04	090924-1	905164
7440-66-6	Zinc	48.8	mg/kg		2.13	10.7	5	10	MS	BAJ	09/25/09 18:42	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.504	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620013

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0604S001

LEVEL: Low

DATE RECEIVED 22-SEP-09

MATRIX: SOIL

%SOLIDS: 98.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.153	mg/kg	J	0.02	0.2	0.2	2	MS	BAJ	09/25/09 05:11	090924-1	905164
7439-92-1	Lead	8	mg/kg		0.0999	0.4	0.4	2	MS	BAJ	09/25/09 05:11	090924-1	905164
7440-66-6	Zinc	51.9	mg/kg		2	9.99	5	10	MS	BAJ	09/25/09 18:44	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.506	g	50	mL	09/23/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 237620

CONTRACT: SSFL00160

METHOD TYPE: SW846

SAMPLE ID: 237620014

BASIS: Dry Weight

DATE COLLECTED 21-SEP-09

CLIENT ID: HZET0605S001

LEVEL: Low

DATE RECEIVED 22-SEP-09

MATRIX: SOIL

%SOLIDS: 95.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-43-9	Cadmium	0.216	mg/kg		0.02	0.2	0.2	2	MS	BAJ	09/25/09 05:17	090924-1	905164
7439-92-1	Lead	10.1	mg/kg		0.1	0.4	0.4	2	MS	BAJ	09/25/09 05:17	090924-1	905164
7440-66-6	Zinc	45.1	mg/kg		2	10	5	10	MS	BAJ	09/25/09 18:46	090925-2	905164

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
905164	905163	SW846 3050B	0.525	g	50	mL	09/23/09	AXG2

Subcontract Data

Dioxins

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

Page 1 of 2

SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068001	Date Collected: 09/21/2009 09:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 11.4
Client ID: HZET0100D001		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/27/2009 22:27	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a-10		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 11.64 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.178	pg/g	0.178	0.485
40321-76-4	1,2,3,7,8-PeCDD	U	0.206	pg/g	0.206	2.42
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.268	pg/g	0.268	2.42
57653-85-7	1,2,3,6,7,8-HxCDD	J	0.601	pg/g	0.304	2.42
19408-74-3	1,2,3,7,8,9-HxCDD	U	0.301	pg/g	0.301	2.42
35822-46-9	1,2,3,4,6,7,8-HpCDD		15.4	pg/g	0.646	2.42
3268-87-9	1,2,3,4,5,6,7,8-OCDD		275	pg/g	2.11	4.85
51207-31-9	2,3,7,8-TCDF		0.481	pg/g	0.240	0.485
57117-41-6	1,2,3,7,8-PeCDF	U	0.189	pg/g	0.189	2.42
57117-31-4	2,3,4,7,8-PeCDF	J	0.178	pg/g	0.176	2.42
70648-26-9	1,2,3,4,7,8-HxCDF	JK	0.211	pg/g	0.163	2.42
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.184	pg/g	0.184	2.42
60851-34-5	2,3,4,6,7,8-HxCDF	U	0.215	pg/g	0.215	2.42
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.291	pg/g	0.291	2.42
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	1.80	pg/g	0.275	2.42
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.432	pg/g	0.432	2.42
39001-02-0	1,2,3,4,5,6,7,8-OCDF		5.77	pg/g	1.78	4.85
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	0.178	pg/g	0.178	0.485
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	0.206	pg/g	0.206	2.42
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		3.79	pg/g	0.268	2.42
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		68.7	pg/g	0.646	2.42
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	1.43	pg/g	0.240	0.485
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.938	pg/g	0.118	2.42
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		2.86	pg/g	0.163	2.42
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		5.27	pg/g	0.275	2.42
	TEQ WHO2005 ND=0 with EMPCs		0.439	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.487	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		169	194	pg/g	87	(25%-164%)
13C-1,2,3,7,8-PeCDD		146	194	pg/g	75	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		228	194	pg/g	117	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		231	194	pg/g	119	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		171	194	pg/g	88	(23%-140%)
13C-OCDD		188	388	pg/g	49	(17%-157%)
13C-2,3,7,8-TCDF		179	194	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDF		149	194	pg/g	77	(24%-185%)
13C-2,3,4,7,8-PeCDF		161	194	pg/g	83	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		246	194	pg/g	127	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		215	194	pg/g	111	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		196	194	pg/g	101	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		198	194	pg/g	102	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		168	194	pg/g	87	(28%-143%)

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

Page 2 of 2

SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068001	Date Collected: 09/21/2009 09:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 11.4
Client ID: HZET0100D001		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/27/2009 22:27	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a-10		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 11.64 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			182	194	pg/g	94
37Cl-2,3,7,8-TCDD			15.9	19.4	pg/g	82
						(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: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068001	Date Collected: 09/21/2009 09:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 11.4
Client ID: HZET0100D001		Prep Basis: Dry Weight
Batch ID: 2253	Method: EPA Method 1613B	
Run Date: 09/28/2009 17:58	Analyst: HMP	Instrument: HRP763
Data File: b28sep09a-10		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 11.64 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.436	pg/g	0.215	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
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SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068002	Date Collected: 09/21/2009 09:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 2.6
Client ID: HZET0100S001		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/27/2009 23:15	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a-11		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 10.4 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.158	pg/g	0.158	0.494
40321-76-4	1,2,3,7,8-PeCDD	J	0.363	pg/g	0.146	2.47
39227-28-6	1,2,3,4,7,8-HxCDD	J	0.527	pg/g	0.172	2.47
57653-85-7	1,2,3,6,7,8-HxCDD	J	2.09	pg/g	0.191	2.47
19408-74-3	1,2,3,7,8,9-HxCDD	J	1.01	pg/g	0.190	2.47
35822-46-9	1,2,3,4,6,7,8-HpCDD		51.7	pg/g	0.555	2.47
3268-87-9	1,2,3,4,5,6,7,8-OCDD		969	pg/g	1.21	4.94
51207-31-9	2,3,7,8-TCDF		0.596	pg/g	0.215	0.494
57117-41-6	1,2,3,7,8-PeCDF	JK	0.268	pg/g	0.116	2.47
57117-31-4	2,3,4,7,8-PeCDF	J	0.440	pg/g	0.116	2.47
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.507	pg/g	0.124	2.47
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.375	pg/g	0.136	2.47
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.434	pg/g	0.136	2.47
72918-21-9	1,2,3,7,8,9-HxCDF	JK	0.294	pg/g	0.178	2.47
67562-39-4	1,2,3,4,6,7,8-HpCDF		5.17	pg/g	0.152	2.47
55673-89-7	1,2,3,4,7,8,9-HpCDF	J	0.525	pg/g	0.265	2.47
39001-02-0	1,2,3,4,5,6,7,8-OCDF		17.1	pg/g	0.537	4.94
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.231	pg/g	0.158	0.494
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	2.16	pg/g	0.146	2.47
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		16.3	pg/g	0.172	2.47
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		219	pg/g	0.555	2.47
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	2.45	pg/g	0.215	0.494
30402-15-4	Total Pentachlorodibenzofuran with EMPCs		4.78	pg/g	0.0784	2.47
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		11.2	pg/g	0.124	2.47
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		17.6	pg/g	0.152	2.47
	TEQ WHO2005 ND=0 with EMPCs		1.96	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		1.96	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		195	197	pg/g	99	(25%-164%)
13C-1,2,3,7,8-PeCDD		185	197	pg/g	94	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		184	197	pg/g	93	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		185	197	pg/g	94	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		176	197	pg/g	89	(23%-140%)
13C-OCDD		305	395	pg/g	77	(17%-157%)
13C-2,3,7,8-TCDF		188	197	pg/g	95	(25%-164%)
13C-1,2,3,7,8-PeCDF		195	197	pg/g	99	(24%-185%)
13C-2,3,4,7,8-PeCDF		204	197	pg/g	103	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		188	197	pg/g	95	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		170	197	pg/g	86	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		184	197	pg/g	93	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		188	197	pg/g	95	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		181	197	pg/g	92	(28%-143%)

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SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068002	Date Collected: 09/21/2009 09:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 2.6
Client ID: HZET0100S001		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/27/2009 23:15	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a-11		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 10.4 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	197	pg/g	88	(26%-138%)
37Cl-2,3,7,8-TCDD		17.8	19.7	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
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Sample Summary**

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SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068002	Date Collected: 09/21/2009 09:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 2.6
Client ID: HZET0100S001		Prep Basis: Dry Weight
Batch ID: 2253	Method: EPA Method 1613B	
Run Date: 09/28/2009 18:20	Analyst: HMP	Instrument: HRP763
Data File: b28sep09a-11		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 10.4 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.456	pg/g	0.187	0.494

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: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068003	Date Collected: 09/21/2009 09:35	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 13.9
Client ID: HZET0101S001		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/28/2009 00:04	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a-12		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 12.2 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.157	pg/g	0.157	0.476
40321-76-4	1,2,3,7,8-PeCDD	U	0.155	pg/g	0.155	2.38
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.204	pg/g	0.204	2.38
57653-85-7	1,2,3,6,7,8-HxCDD	U	0.215	pg/g	0.215	2.38
19408-74-3	1,2,3,7,8,9-HxCDD	U	0.221	pg/g	0.221	2.38
35822-46-9	1,2,3,4,6,7,8-HpCDD		2.40	pg/g	0.331	2.38
3268-87-9	1,2,3,4,5,6,7,8-OCDD		41.1	pg/g	0.950	4.76
51207-31-9	2,3,7,8-TCDF		0.348	pg/g	0.229	0.476
57117-41-6	1,2,3,7,8-PeCDF	U	0.125	pg/g	0.125	2.38
57117-31-4	2,3,4,7,8-PeCDF	U	0.119	pg/g	0.119	2.38
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.120	pg/g	0.120	2.38
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.121	pg/g	0.121	2.38
60851-34-5	2,3,4,6,7,8-HxCDF	U	0.123	pg/g	0.123	2.38
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.175	pg/g	0.175	2.38
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.375	pg/g	0.154	2.38
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.269	pg/g	0.269	2.38
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	1.01	pg/g	0.638	4.76
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	J	0.320	pg/g	0.157	0.476
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	0.155	pg/g	0.155	2.38
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	0.670	pg/g	0.204	2.38
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		8.52	pg/g	0.331	2.38
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	1.25	pg/g	0.229	0.476
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.665	pg/g	0.076	2.38
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.680	pg/g	0.120	2.38
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.885	pg/g	0.154	2.38
	TEQ WHO2005 ND=0 with EMPCs		0.0752	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		178	190	pg/g	94	(25%-164%)
13C-1,2,3,7,8-PeCDD		175	190	pg/g	92	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		185	190	pg/g	97	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		176	190	pg/g	93	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		166	190	pg/g	87	(23%-140%)
13C-OCDD		281	381	pg/g	74	(17%-157%)
13C-2,3,7,8-TCDF		174	190	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDF		176	190	pg/g	92	(24%-185%)
13C-2,3,4,7,8-PeCDF		189	190	pg/g	99	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		182	190	pg/g	95	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		170	190	pg/g	89	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		181	190	pg/g	95	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		179	190	pg/g	94	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		179	190	pg/g	94	(28%-143%)

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SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068003	Date Collected: 09/21/2009 09:35	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 13.9
Client ID: HZET0101S001		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/28/2009 00:04	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a-12		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 12.2 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		168	190	pg/g	88	(26%-138%)
37Cl-2,3,7,8-TCDD		16.5	19.0	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
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: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068003	Date Collected: 09/21/2009 09:35	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 13.9
Client ID: HZET0101S001		Prep Basis: Dry Weight
Batch ID: 2253	Method: EPA Method 1613B	
Run Date: 09/28/2009 18:42	Analyst: HMP	Instrument: HRP763
Data File: b28sep09a-12		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 12.2 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.368	pg/g	0.161	0.476

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
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Sample Summary**

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SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068004	Date Collected: 09/21/2009 13:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 8.4
Client ID: HZET0101S002		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/28/2009 00:52	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a-13		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 11.11 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.166	pg/g	0.166	0.491
40321-76-4	1,2,3,7,8-PeCDD	U	0.154	pg/g	0.154	2.46
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.191	pg/g	0.191	2.46
57653-85-7	1,2,3,6,7,8-HxCDD	U	0.214	pg/g	0.214	2.46
19408-74-3	1,2,3,7,8,9-HxCDD	U	0.212	pg/g	0.212	2.46
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	0.769	pg/g	0.336	2.46
3268-87-9	1,2,3,4,5,6,7,8-OCDD		7.75	pg/g	0.588	4.91
51207-31-9	2,3,7,8-TCDF		0.259	pg/g	0.197	0.491
57117-41-6	1,2,3,7,8-PeCDF	U	0.127	pg/g	0.127	2.46
57117-31-4	2,3,4,7,8-PeCDF	U	0.128	pg/g	0.128	2.46
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.131	pg/g	0.131	2.46
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.136	pg/g	0.136	2.46
60851-34-5	2,3,4,6,7,8-HxCDF	U	0.143	pg/g	0.143	2.46
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.202	pg/g	0.202	2.46
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.234	pg/g	0.159	2.46
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.287	pg/g	0.287	2.46
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	0.615	pg/g	0.615	4.91
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	0.166	pg/g	0.166	0.491
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	0.154	pg/g	0.154	2.46
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	0.191	pg/g	0.191	2.46
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	2.22	pg/g	0.336	2.46
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.727	pg/g	0.197	0.491
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.472	pg/g	0.0859	2.46
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.232	pg/g	0.131	2.46
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.493	pg/g	0.159	2.46
	TEQ WHO2005 ND=0 with EMPCs		0.0383	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.0853	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		180	197	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDD		171	197	pg/g	87	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		182	197	pg/g	93	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		180	197	pg/g	92	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		168	197	pg/g	86	(23%-140%)
13C-OCDD		290	393	pg/g	74	(17%-157%)
13C-2,3,7,8-TCDF		183	197	pg/g	93	(25%-164%)
13C-1,2,3,7,8-PeCDF		180	197	pg/g	92	(24%-185%)
13C-2,3,4,7,8-PeCDF		185	197	pg/g	94	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		185	197	pg/g	94	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		168	197	pg/g	86	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		180	197	pg/g	92	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		176	197	pg/g	90	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		176	197	pg/g	90	(28%-143%)

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SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068004	Date Collected: 09/21/2009 13:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 8.4
Client ID: HZET0101S002		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/28/2009 00:52	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a-13		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 11.11 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	197	pg/g	86	(26%-138%)
37Cl-2,3,7,8-TCDD		16.4	19.7	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
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SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068004	Date Collected: 09/21/2009 13:10	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 8.4
Client ID: HZET0101S002		Prep Basis: Dry Weight
Batch ID: 2253	Method: EPA Method 1613B	
Run Date: 09/28/2009 19:03	Analyst: HMP	Instrument: HRP763
Data File: b28sep09a-13		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 11.11 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.317	pg/g	0.173	0.491

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: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068005	Date Collected: 09/21/2009 12:55	Matrix: Soil
Client Sample: 1613 Soil/MS/MSD	Date Received: 09/23/2009 09:50	%Moisture: 10.6
Client ID: HZET0102S001		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/28/2009 04:11	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a_2-2		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 11.41 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.172	pg/g	0.172	0.490
40321-76-4	1,2,3,7,8-PeCDD	U	0.173	pg/g	0.173	2.45
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.212	pg/g	0.212	2.45
57653-85-7	1,2,3,6,7,8-HxCDD	U	0.247	pg/g	0.247	2.45
19408-74-3	1,2,3,7,8,9-HxCDD	U	0.241	pg/g	0.241	2.45
35822-46-9	1,2,3,4,6,7,8-HpCDD	K	2.47	pg/g	0.412	2.45
3268-87-9	1,2,3,4,5,6,7,8-OCDD		39.4	pg/g	0.973	4.90
51207-31-9	2,3,7,8-TCDF		0.314	pg/g	0.231	0.490
57117-41-6	1,2,3,7,8-PeCDF	U	0.136	pg/g	0.136	2.45
57117-31-4	2,3,4,7,8-PeCDF	U	0.141	pg/g	0.141	2.45
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.155	pg/g	0.155	2.45
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.162	pg/g	0.162	2.45
60851-34-5	2,3,4,6,7,8-HxCDF	U	0.172	pg/g	0.172	2.45
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.241	pg/g	0.241	2.45
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	0.412	pg/g	0.214	2.45
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.406	pg/g	0.406	2.45
39001-02-0	1,2,3,4,5,6,7,8-OCDF	J	1.16	pg/g	0.708	4.90
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	0.172	pg/g	0.172	0.490
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	0.173	pg/g	0.173	2.45
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	J	0.249	pg/g	0.212	2.45
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		8.95	pg/g	0.412	2.45
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	0.610	pg/g	0.231	0.490
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.145	pg/g	0.0996	2.45
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	0.208	pg/g	0.155	2.45
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.922	pg/g	0.214	2.45
	TEQ WHO2005 ND=0 with EMPCs		0.0724	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.143	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		175	196	pg/g	89	(25%-164%)
13C-1,2,3,7,8-PeCDD		162	196	pg/g	82	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		186	196	pg/g	95	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		178	196	pg/g	91	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		161	196	pg/g	82	(23%-140%)
13C-OCDD		275	392	pg/g	70	(17%-157%)
13C-2,3,7,8-TCDF		181	196	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDF		166	196	pg/g	84	(24%-185%)
13C-2,3,4,7,8-PeCDF		169	196	pg/g	86	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		180	196	pg/g	92	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		171	196	pg/g	87	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		175	196	pg/g	89	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		173	196	pg/g	88	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		173	196	pg/g	88	(28%-143%)

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SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068005	Date Collected: 09/21/2009 12:55	Matrix: Soil
Client Sample: 1613 Soil/MS/MSD	Date Received: 09/23/2009 09:50	%Moisture: 10.6
Client ID: HZET0102S001		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/28/2009 04:11	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a_2-2		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 11.41 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		161	196	pg/g	82	(26%-138%)
37Cl-2,3,7,8-TCDD		16.4	19.6	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: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068005	Date Collected: 09/21/2009 12:55	Matrix: Soil
Client Sample: 1613 Soil/MS/MSD	Date Received: 09/23/2009 09:50	%Moisture: 10.6
Client ID: HZET0102S001		Prep Basis: Dry Weight
Batch ID: 2253	Method: EPA Method 1613B	
Run Date: 09/28/2009 19:25	Analyst: HMP	Instrument: HRP763
Data File: b28sep09a-14		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 11.41 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.314	pg/g	0.157	0.490

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: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068006	Date Collected: 09/21/2009 12:45	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 15.5
Client ID: HZET0103S001		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/28/2009 01:40	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a-14		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 11.94 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.174	pg/g	0.174	0.496
40321-76-4	1,2,3,7,8-PeCDD	U	0.141	pg/g	0.141	2.48
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.208	pg/g	0.208	2.48
57653-85-7	1,2,3,6,7,8-HxCDD	J	0.706	pg/g	0.232	2.48
19408-74-3	1,2,3,7,8,9-HxCDD	JK	0.456	pg/g	0.230	2.48
35822-46-9	1,2,3,4,6,7,8-HpCDD		14.5	pg/g	0.432	2.48
3268-87-9	1,2,3,4,5,6,7,8-OCDD		337	pg/g	1.01	4.96
51207-31-9	2,3,7,8-TCDF		0.311	pg/g	0.232	0.496
57117-41-6	1,2,3,7,8-PeCDF	U	0.145	pg/g	0.145	2.48
57117-31-4	2,3,4,7,8-PeCDF	U	0.142	pg/g	0.142	2.48
70648-26-9	1,2,3,4,7,8-HxCDF	JK	0.165	pg/g	0.123	2.48
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.126	pg/g	0.126	2.48
60851-34-5	2,3,4,6,7,8-HxCDF	JK	0.161	pg/g	0.138	2.48
72918-21-9	1,2,3,7,8,9-HxCDF	U	0.190	pg/g	0.190	2.48
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	1.48	pg/g	0.181	2.48
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.323	pg/g	0.323	2.48
39001-02-0	1,2,3,4,5,6,7,8-OCDF		5.02	pg/g	0.870	4.96
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	0.174	pg/g	0.174	0.496
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	J	0.272	pg/g	0.141	2.48
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs		5.28	pg/g	0.208	2.48
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs		70.6	pg/g	0.432	2.48
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	B	1.24	pg/g	0.232	0.496
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.543	pg/g	0.0864	2.48
55684-94-1	Total Hexachlorodibenzofuran with EMPCs		2.73	pg/g	0.123	2.48
38998-75-3	Total Heptachlorodibenzofuran with EMPCs		4.61	pg/g	0.181	2.48
	TEQ WHO2005 ND=0 with EMPCs		0.442	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.463	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		183	198	pg/g	92	(25%-164%)
13C-1,2,3,7,8-PeCDD		186	198	pg/g	94	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		187	198	pg/g	95	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		188	198	pg/g	95	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		175	198	pg/g	88	(23%-140%)
13C-OCDD		297	396	pg/g	75	(17%-157%)
13C-2,3,7,8-TCDF		194	198	pg/g	98	(25%-164%)
13C-1,2,3,7,8-PeCDF		192	198	pg/g	97	(24%-185%)
13C-2,3,4,7,8-PeCDF		198	198	pg/g	100	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		195	198	pg/g	98	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		179	198	pg/g	90	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		187	198	pg/g	94	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		182	198	pg/g	92	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		185	198	pg/g	93	(28%-143%)

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SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068006	Date Collected: 09/21/2009 12:45	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 15.5
Client ID: HZET0103S001		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/28/2009 01:40	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a-14		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 11.94 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		173	198	pg/g	87	(26%-138%)
37Cl-2,3,7,8-TCDD		17.3	19.8	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
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SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068006	Date Collected: 09/21/2009 12:45	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 15.5
Client ID: HZET0103S001		Prep Basis: Dry Weight
Batch ID: 2253	Method: EPA Method 1613B	
Run Date: 09/28/2009 20:30	Analyst: HMP	Instrument: HRP763
Data File: b28sep09a-17		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 11.94 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.365	pg/g	0.172	0.496

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: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068007	Date Collected: 09/21/2009 13:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 4.1
Client ID: HZET0103S002		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/28/2009 06:35	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a_2-5		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 10.73 g	

CAS No.	Parname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.315	pg/g	0.315	0.486
40321-76-4	1,2,3,7,8-PeCDD	U	0.282	pg/g	0.282	2.43
39227-28-6	1,2,3,4,7,8-HxCDD	U	0.449	pg/g	0.449	2.43
57653-85-7	1,2,3,6,7,8-HxCDD	U	0.492	pg/g	0.492	2.43
19408-74-3	1,2,3,7,8,9-HxCDD	U	0.494	pg/g	0.494	2.43
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	1.13	pg/g	0.941	2.43
3268-87-9	1,2,3,4,5,6,7,8-OCDD	K	5.32	pg/g	3.09	4.86
51207-31-9	2,3,7,8-TCDF	U	0.348	pg/g	0.348	0.486
57117-41-6	1,2,3,7,8-PeCDF	JK	0.299	pg/g	0.251	2.43
57117-31-4	2,3,4,7,8-PeCDF	J	0.389	pg/g	0.257	2.43
70648-26-9	1,2,3,4,7,8-HxCDF	J	0.381	pg/g	0.288	2.43
57117-44-9	1,2,3,6,7,8-HxCDF	JK	0.365	pg/g	0.325	2.43
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.564	pg/g	0.375	2.43
72918-21-9	1,2,3,7,8,9-HxCDF	J	0.704	pg/g	0.556	2.43
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	0.725	pg/g	0.488	2.43
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	0.816	pg/g	0.816	2.43
39001-02-0	1,2,3,4,5,6,7,8-OCDF	U	2.66	pg/g	2.66	4.86
41903-57-5	Total Tetrachlorodibenzo-p-dioxin with EMPCs	U	0.315	pg/g	0.315	0.486
36088-22-9	Total Pentachlorodibenzo-p-dioxin with EMPCs	U	0.282	pg/g	0.282	2.43
34465-46-8	Total Hexachlorodibenzo-p-dioxin with EMPCs	U	0.449	pg/g	0.449	2.43
37871-00-4	Total Heptachlorodibenzo-p-dioxin with EMPCs	J	1.13	pg/g	0.941	2.43
30402-14-3	Total Tetrachlorodibenzofuran with EMPCs	U	0.348	pg/g	0.348	0.486
30402-15-4	Total Pentachlorodibenzofuran with EMPCs	J	0.688	pg/g	0.251	2.43
55684-94-1	Total Hexachlorodibenzofuran with EMPCs	J	2.01	pg/g	0.288	2.43
38998-75-3	Total Heptachlorodibenzofuran with EMPCs	J	0.725	pg/g	0.488	2.43
	TEQ WHO2005 ND=0 with EMPCs		0.347	pg/g		
	TEQ WHO2005 ND=0.5 with EMPCs		0.578	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		161	194	pg/g	83	(25%-164%)
13C-1,2,3,7,8-PeCDD		149	194	pg/g	76	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		216	194	pg/g	111	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		207	194	pg/g	107	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		154	194	pg/g	79	(23%-140%)
13C-OCDD		159	389	pg/g	41	(17%-157%)
13C-2,3,7,8-TCDF		176	194	pg/g	91	(25%-164%)
13C-1,2,3,7,8-PeCDF		156	194	pg/g	80	(24%-185%)
13C-2,3,4,7,8-PeCDF		163	194	pg/g	84	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		221	194	pg/g	114	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		196	194	pg/g	101	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		185	194	pg/g	95	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		175	194	pg/g	90	(29%-147%)
13C-1,2,3,4,6,7,8-HpCDF		157	194	pg/g	81	(28%-143%)

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Sample Summary**

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SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068007	Date Collected: 09/21/2009 13:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 4.1
Client ID: HZET0103S002		Prep Basis: Dry Weight
Batch ID: 2232	Method: EPA Method 1613B	
Run Date: 09/28/2009 06:35	Analyst: HMP	Instrument: HRP763
Data File: b27sep09a_2-5		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 10.73 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		156	194	pg/g	80	(26%-138%)
37Cl-2,3,7,8-TCDD		15.4	19.4	pg/g	79	(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
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Sample Summary**

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SDG Number: 1068	Client: BOEN001	Project: BOEN00309
Lab Sample ID: 1068007	Date Collected: 09/21/2009 13:25	Matrix: Soil
Client Sample: 1613 Soil	Date Received: 09/23/2009 09:50	%Moisture: 4.1
Client ID: HZET0103S002		Prep Basis: Dry Weight
Batch ID: 2253	Method: EPA Method 1613B	
Run Date: 09/28/2009 20:51	Analyst: HMP	Instrument: HRP763
Data File: b28sep09a-18		Dilution: 1
Prep Batch: 2152	Prep Method: SW846 3540C	
Prep Date: 24-SEP-09 15:00:00	Aliquot: 10.73 g	

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
51207-31-9	2,3,7,8-TCDF	J	0.299	pg/g	0.278	0.486

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.