Chain of Custody and Supporting Documentation

231342+1
~~230952~~ JT 6/9/09

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090603_00

Page: 1 of 3

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Metals 6010B Soil Aluminum	Metals 6010B Water Aluminum	Metals 6020 Be Soil	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Selenium	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	Metals 7471A Soil Mercury	PCB by SW8082 - Soil	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Soil	SVOCs by SW8270C SIM - Water	TPH by SW8015BM - Soil	TPH by SW8015BM - Water	VOC by SW8260B - Soil	VOC by SW8260B - Water					Comments
B1BS0080D001	Soil	6/3/2009	0:00	4	10	10		10						10	10	10	10	10										10		10						
B1TB2008T001	Water	6/3/2009	7:00	3																											10					
B1BS0080S001	Soil	6/3/2009	7:43	4	10	10		10						10	10	10	10	10										10		10						
B1BS0080S002	Soil	6/3/2009	7:50	4	H	H		H						H	H	H	H	H										EH		EH						
B1BS0082S001	Soil	6/3/2009	8:30	1	10	H		H						10																						
B1BS0082S002	Soil	6/3/2009	8:40	1	H	H		H						H																						
B1BS0083S001	Soil	6/3/2009	8:55	1	H									H																						
B1BS0081S001	Soil	6/3/2009	9:20	1	10	10		10						10			10																			
B1BS0078S001	Soil	6/3/2009	9:35	4	10	10		10						10	10	10	10	10										10		10						
B1BS0078S002	Soil	6/3/2009	9:40	4	H	H		H						H	H	H	H	H										EH		EH						

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract & Hold

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	6-3-09	R.M. Stelling	6/4/09				
Company: MWH	Time: 1515	Company: GEL	Time: ~~905~~ 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

~~2309527~~ 2313427
JT 6/9/09

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090603_00

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	CA	Field Contact #:	(323) 304-4969
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Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

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B1BS0077S001	Soil	6/3/2009	10:00	4	10									10	10	10	10	10										10		10			
B1BS0077S002	Soil	6/3/2009	10:15	4	H									H	H	H	H	H										EH		EH			
ILBS0253S001	Soil	6/3/2009	10:55	1	10								10	10	10	10		10					10	EH		10							
ILBS0253S002	Soil	6/3/2009	11:00	1	H								H	H	H	H		H					H	EH		EH							
ILBS0252S001	Soil	6/3/2009	11:15	1	10								10										10										
ILBS0252S002	Soil	6/3/2009	11:20	1	H								H										H										
ILBS0251S001	Soil	6/3/2009	12:20	1	10								10	10	10	10		10					10	EH		10							
ILBS0251S002	Soil	6/3/2009	12:30	1	H								H	H	H	H		H					H	EH		EH							
ILBS0250S001	Soil	6/3/2009	12:45	1	10								H	10	10	10		10					10	EH		10							
ILBS0249S001	Soil	6/3/2009	13:00	1	10								H	10	10	10		10					10	EH		10							

Requested Analyses

Instructions/TAT

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B. M	6-3-09	R.M. Stelling	6/4/09				
Company: MWH	Time: 1515	Company: GEL	Time: 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

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231342H
~~230952T~~ JT 6/9/09

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090603_00

Page: 3 of 3

Customer Information		Project Information		Project Information			
Site:	SSFL	Client Name:	Boeing	Collector:	B. Martasin	Boeing PM:	
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521				
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl				
	Suite 600	PM Phone #:	(925) 627-4627				
	Walnut Creek	Field Contact:	Brian Martasin				
	CA	Field Contact #:	(323) 304-4969				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell				
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road				
			Charleston, SC 29407				
		Lab Phone:	(843) 769-7388				

	Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Metals 6010B Soil Aluminum	Metals 6010B Water Aluminum	Metals 6020 Be Soil	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Selenium	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	Metals 7471A Soil Mercury	PCB by SW8082 - Soil	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Soil	SVOCs by SW8270C SIM - Water	TPH by SW8015BM - Soil	TPH by SW8015BM - Water	VOC by SW8260B - Soil	VOC by SW8260B - Water				Comments
✓	ILBS0249S002	Soil	6/3/2009	13:05	1	H								H	H	H	H		H					H	EH		EH								
✓	EBQW2217	Water	6/3/2009	13:30	10			10		10	10	10	10							10	10	10	10			10		10		10					

Requested Analyses

Instructions/TAT

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Numerical values for analyses equate to turn around time in days

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1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	6-3-09	R.M. Stelling	6/4/09				
Company: MWH	Time: 1515	Company: Gel	Time: 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

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GEL | Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

231342H

Client: SSFL	**SDG/ARCOC/Work Order:** ~~230952~~ JT 6/9/09
Received By: RMS	**Date Received:** 6/4/09

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?		✓	40 cpm
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?	✓			Preservation Method: (ice bags) blue ice dry ice none other (describe) 6, 4°
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 3161 5453 @ 6°
" " 5394 @ 4°

PM (or PMA) review: Initials JT Date 6/4/09

Requesting Firm: MWH
Address: 2121 No. California Blvd.
Walnut Creek, CA 94596
Phone: 925-627-4654
Fax: 925-627-4501
E-mail:Sarah.VonRaesfeld@mwhglobal.com

Date: 06/09/09

To: Jackie Trudell **Phone: 843-769-7388**

Laboratory GEL Laboratories, LLC **E-mail:** jacqueline.trudell@gel.com

From: Sarah Von Raesfeld

Requestor signature:

Subject: **Chain-of-Custody Form Analytical Request Change** **No. of Pages: 4**

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

COC No.	Client Sample ID(s)	Date Collected	Originally Requested Analyses	Change (s) and Method (s) Now Requested
MWHBM20090603_00	B1BS0077S002 B1BS0078S002 B1BS0080S002	06/03/09		Run VOCs

The reason for these changes:

Incorrectly marked on COC form _____

Lack of sample volume _____

Change in analytical request X

Other: _____

Thank you

2309521

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWH-IBM20090603_00

Page: 1 of 3

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
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Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract & Hold

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Metals 6010B Soil Aluminum	Metals 6010B Water Aluminum	Metals 6020 Be Soil	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Selenium	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	Metals 7471A Soil Mercury	PCB by SW8082 - Soil	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Soil	SVOCs by SW8270C SIM - Water	TPH by SW8015BM - Soil	TPH by SW8015BM - Water	VOC by SW8260B - Soil	VOC by SW8260B - Water	Comments
B1BS0080D001	Soil	6/3/2009	0:00	4 .1	10	10		10						10	10	10	10	10										10		10		
B1TB2008T001	Water	6/3/2009	7:00	3 .2																											10	
B1BS0080S001	Soil	6/3/2009	7:43	4 .1	10	10		10						10	10	10	10	10										10		10		
B1BS0080S002	Soil	6/3/2009	7:50	4 .1	H	H		H						H	H	H	H	H										EH		FD		(2)
B1BS0082B001	Soil	6/3/2009	8:30	1 .3	10	H		H						10																		
B1BS0082S002	Soil	6/3/2009	8:40	1 .3	H	H		H						H																		
B1BS0083S001	Soil	6/3/2009	8:55	1 .4	H									H																		
B1BS0081S001	Soil	6/3/2009	9:20	1 .5	10	10		10						10			10															
B1BS0078S001	Soil	6/3/2009	9:35	4 .1	10	10		10						10	10	10	10	10										10		10		
B1BS0078S002	Soil	6/3/2009	9:40	4 .1	H	H		H						H	H	H	H	H										EH		FD		

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by: (2)	Date:
	6-3-09	R.M. Stelling	6/4/09				
Company: MWH	Time: 1515	Company: GEL	Time: ~~905~~ 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

(2) SVR 06/09/09

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BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090603_00

Page: 2 of 3

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Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 800	PM Phone #:	(925) 627-4827
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
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			Charleston, SC 29407
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Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Metals 6010B Soil Aluminum	Metals 6010B Water Aluminum	Metals 6020 Be Soil	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Selenium	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	Metals 7471A Soil Mercury	PCB by SW8082 - Soil	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Soil	SVOCs by SW8270C SIM - Water	TPH by SW8015M - Soil	TPH by SW8015M - Water	VOC by SW8260B - Soil	VOC by SW8260B - Water
B1BS0077S001	Soil	6/3/2009	10:00	4	10									10	10	10	10	10										10		10	
B1BS0077S002	Soil	6/3/2009	10:15	4	H									H	H	H	H	H										EH		FD	
ILBS0253S001	Soil	6/3/2009	10:55	1	10								10	10	10	10		10					10	EH		10					
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ILBS0252S001	Soil	6/3/2009	11:15	1	10								10										10								
ILBS0252S002	Soil	6/3/2009	11:20	1	H								H										H								
ILBS0251S001	Soil	6/3/2009	12:20	1	10								10	10	10	10		10					10	EH		10					
ILBS0251S002	Soil	6/3/2009	12:30	1	H								H	H	H	H		H					H	EH		EH					
ILBS0250S001	Soil	6/3/2009	12:45	1	10								H	10	10	10		10					10	EH		10					
ILBS0249S001	Soil	6/3/2009	13:00	1	10 H								H	10 H	10 H	10 H		10 H					10 H	EH		10 GH					

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract & Hold

Comments

(2)

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
B. Martasin	6-3-09	R.M. Stelling	6/4/09				
Company: MWH	Time: 1515	Company: GEL	Time: 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

(1)

(1) SVR 06/08/09

(2) SVR 06/09/09

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BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090603_00

Page: 3 of 3

Customer Information		Project Information	
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Project Information			
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Contact #:			

Requested Analyses

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✓ ILBS0249S002	Soil	6/3/2009	13:05	1	10								H	H2	H2	H2		10					H	EH		EH									
✓ EBQW2217	Water	6/3/2009	13:30	10			10		10	10	10	10							10	10	10	10			10		10		10							

(1)

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Company: MWH	Time: 1515	Company: GEL	Time: 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

(1) SVR 06/08/09

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LABORATORY TASK ORDER (LTO) FORM

INSTRUCTIONS: To be completed by Environmental Contractor & Emailed to Laboratory Project Manager, CH2M HILL (boeingedms@ch2m.com) & the Data Validator at Least 48 hrs prior to need for sample containers. Project Analytical Laboratory will confirm receipt via E-Mail.

Event Name: ISRA Sampling, Feb 2009 **Start:** 2/19/2009 **End:** 2/23/2009

LTO DATE: **LTO NUMBER:**

Consultant Name:	MWH	**Contract Laboratory:**	GEL
Address:	2121 N. California Blvd. Ste. 600	Address:	2040 Savage Rd.
	Walnut Creek, CA 94596		Charleston, SC 29407
Contact Name:	Sarah Von Raesfeld	**Lab Contact Name:**	Cheryl Jones
Phone Number:	925-627-4654	Phone Number:	843-769-7388
Fax Number:	925-627-4501	Fax Number:	843-766-1178
E-mail Address:	Sarah.VonRaesfeld@mwhglobal.com	E-mail Address:	cj@gel.com

SAMPLE CONTAINER ORDER FORM

Date Required: 02/19/09

Date Sample Pickup: NA

Ship Containers To:

Project Site	X	*(enter "X")*
Consultant Office		*(enter "X")*
Other Location (specify in comments)		*(enter "X")*

Container Information:

Trip Blank (VOA only)	Yes	*(Yes/No)*
Temp Blank (VOA Only)	No	*(Yes/No)*
DI Water Required?	No	*(Yes/No)*
MS/MSD Extra Bottles?	No	*(Yes/No)*

Sample Matrix:

Soil	X	*(select all applicable)*
Water	X	*(select all applicable)*
Vapor		*(select all applicable)*

Est. Total # of Samples: 75 Est. Total # of EDDs 5

Requested Analyses: (Specify # of Samples)

	Water	Soil	Contingent
Dioxins - (1613B)	**5**	**9**	**14**
EPA 8015M (DRO)	--	--	--
EPA 8015M (JET FUEL)	--	--	--
EPA 8015M (CC)	--	--	--
EPA 8260B (VOC)	--	--	--
EPA 8270C SIM (SVOC)	--	--	--
EPA 8310 (PAH)	--	--	--
EPA 8082 (PCB)	--	--	--
Acetone (8260B)	--	--	--
EPA TO-15 VOCs (SIM)	--	--	--
Metals (6010B/6020/7470A/7471A)	--	--	--
Cadmium (6020)	**5**	**15**	**10**
Arsenic (6020)	**5**	**5**	**5**
% Moisture (D2216)	**0**	**40**	**30**
Lead (6020)	**5**	**40**	**30**
Copper (6020)	**5**	**10**	**5**
Zinc (6020)	**5**	**10**	**5**
EPA TO-14 (VOCs)	--	--	--

LABORATORY REPORTING REQUIREMENTS

Project TAT:

Normal:	X	(10 Business days)
RUSH:		(Specify- 24 / 48 / 72HRS)
Other :		(Specify # of Days)
Report Due Date:		

Special Reporting Requirements:

Contingent Analysis?	No	*(Yes/No)*
TIC (VOC) Required?	No	*(Yes/No)*
TIC (SVOC) Required?	No	*(Yes/No)*
Data Validation Pckge.:	Tier III	(Boeing Tier I, II or III)

Laboratory Results/Reports Deliverables:

Draft Results Fax?:		(Yes/No)
Draft Results E-mail?:	Yes	(Yes/No)

Specify Fax/E-mail Contact Name, #, E-mail Address: Sarah.VonRaesfeld@mwhglobal.com

Send Original Reports To:

Project Site		*(enter "X")*
Consultant Office		*(enter "X")*
Other Location (specify in comments)	X	*(enter "X")*
# of Copies Reports Req.:	1	

SPECIAL INSTRUCTIONS/LTO NOTES

CONFIRMATION OF TRANSMITTAL & RECEIPT

LTO Sent By:

Name: Sean Leffler

Date: 02/20/09

LTO Received By-

Name:

Date:

LABORATORY TASK ORDER (LTO) FORM (PAGE 2)

ADDITIONAL REQUIRED ANALYSES

LTO DATE: | **LTO NUMBER:**

Consultant Name:	MWH	**Contract Laboratory:**	GEL
Address:	2121 N. California Blvd. Ste. 600	Address:	2040 Savage Rd.
	Walnut Creek, CA 94596		Charleston, SC 29407
Contact Name:	Sarah Von Raesfeld	**Lab Contact Name:**	Cheryl Jones
Phone Number:	925-627-4654	Phone Number:	843-769-7388
Fax Number:	925-627-4501	Fax Number:	843-766-1178
E-mail Address:	Sarah.VonRaesfeld@mwhglobal.com	E-mail Address:	cj@gel.com

SAMPLE CONTAINER ORDER FORM (CONTINUED)

Requested Analyses: **(Specify # of Samples)**

	Water	Soil	Contingent
Arsenic (6020)	--	--	--
Lead (6020)	--	--	--
Cadmium (6020)	--	--	--
Lithium (6020)	--	--	--
Sodium (6020)	--	--	--
Selenium (6020)	--	--	--
Thallium (6020)	--	--	--
Zinc (6020)	--	--	--
Boron (6010B	--	--	--
Vanadium (6010B)	--	--	--
Copper (6020)	--	--	--
Zirconium (6020)	--	--	--

Table of Contents

Case Narrative

Case Narrative
for
Boeing - SSFL (MWH)
Work Order: 231342
SDG: 231342H

June 22, 2009

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample Receipt

The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on June 04, 2009 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

The laboratory received the following samples:

Laboratory Identification	Sample Description
231342001	B1BS0080S002
231342002	B1BS0078S002
231342003	B1BS0077S002

Items of Note

Santa Susanna Field Laboratory Technical Representative was contacted seeking resolution to any analytical and/or receipt issues. Please see the enclosed e-mails.

Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Data Package:

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: GC/MS Volatile.

I certify that this data package is in compliance with the terms and conditions of the subcontract and task order, both technically and for the completeness, for other than the conditions detailed in the attached case narratives.

Jacqueline A Trudell

Jacqueline Trudell
Project Manager

Data Qualifiers Definitions

Data Review Qualifier Definitions

Qualifier	Explanation
*	A quality control analyte recovery is outside of specified acceptance criteria
**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
A	The TIC is a suspected aldol-condensation product
B	Target analyte was detected in the associated blank
B	Metals-Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
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
d	5-day BOD-The 2:1 depletion requirement was not met for this sample
E	Organics-Concentration of the target analyte exceeds the instrument calibration range
E	Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
H	Analytical holding time was exceeded
h	Preparation or preservation holding time was exceeded
J	Value is estimated
N	Metals-The Matrix spike sample recovery is not within specified control limits
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	Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
ND	Analyte concentration is not detected above the reporting limit
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
Z	Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

Laboratory Certifications

List of current GEL Certifications as of 18 June 2009

State	Certification
Arizona	AZ0668
Arkansas	88−0651
CLIA	42D0904046
California − NELAP	01151CA
Colorado	GEL
Connecticut	PH−0169
Dept. of Navy	NFESC 413
EPA Region 5	WG−15J
Florida − NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois − NELAP	200029
Indiana	C−SC−01
Kansas − NELAP	E−10332
Kentucky	90129
Louisiana − NELAP	03046
Maryland	270
Massachusetts	M−SC012
Nevada	SC00012
New Jersey − NELAP	SC002
New Mexico	FL NELAP E87156
New York − NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania − NELAP	68−00485
South Carolina	10120001/10120002
Tennessee	TN 02934
Texas − NELAP	T104704235−07B−TX
U.S. Dept. of Agriculture	S−52597
Utah − NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

DATA VALIDATION REPORT

Boeing SSFL RFI ISRA

SAMPLE DELIVERY GROUP: 231342H

Prepared by

MEC^X, LP
12269 East Vassar Drive
Aurora, CO 80014

I. INTRODUCTION

Task Order Title:	Boeing SSFL RFI ISRA
Contract Task Order:	1261.500D.00
Sample Delivery Group:	231342H
Project Manager:	Dixie Hambrick
Matrix:	soil
QC Level:	V
No. of Samples:	3
No. of Reanalyses/Dilutions:	0
Laboratory:	GEL

Table 1. Sample Identification

Sample Name	*Lab Sample Name*	*Sub-Lab Sample Name*	*Matrix*	*Collection*	*Method*
B1BS0077S002	231342003	N/A	Soil	6/3/2009 10:15:00 AM	8260B
B1BS0078S002	231342002	N/A	Soil	6/3/2009 9:40:00 AM	8260B
B1BS0080S002	231342001	N/A	Soil	6/3/2009 7:50:00 AM	8260B

II. Sample Management

No anomalies were observed regarding sample management. The samples in this SDG were received at the laboratory within the temperature limits of 4°C ±2°C. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. Custody seals were intact. If necessary, the client ID was added to the sample result summary by the reviewer.

Data Qualifier Reference Table

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. The associated value is the sample detection limit or the quantitation limit for perchlorate only.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
T-I	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration. The tentative identification represents a compound with a CAS number and fit greater than 80%.	Not applicable

T-II	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration. The tentative identification represents a class of compound but not of sufficient identification quality to represent a specific compound.	Not applicable
T-III	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration. The tentative identification represents an unknown compound.	Not applicable
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	Not applicable.
-	False negative – compound was present but not reported.	Not applicable.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.

Qualification Code Reference Table Cont.

D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*II, *III	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.

III. Method Analyses

A. EPA METHOD 8260B—Volatile Organic Compounds (VOCs)

Reviewed By: P. Meeks
Date Reviewed: July 6, 2009

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Volatile Organics (DVP-2, Rev. 0), EPA Method 8260B*, and the *National Functional Guidelines for Organic Data Review* (10/99).

- Holding Times: Analytical holding times were met. The soil samples were analyzed within 14 days of collection.

- GC/MS Tuning: Review is not applicable at a Level V validation.

- Calibration: Review is not applicable at a Level V validation.

- Blanks: The method blanks had no target compound detects above the MDL.

- Blank Spikes and Laboratory Control Samples: Chloroethane was recovered above the control limit in the LCS only. All remaining recoveries and all RPDs were within laboratory-established QC limits.

- Surrogate Recovery: Recoveries were within laboratory-established QC limits.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on a sample from this SDG. Evaluation of method accuracy and precision was based on the LCS/LCSD results.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Trip Blanks: B1TB2008T01 (230952) was identified as the trip blank. There were no detects above the MDL in the trip blank.

    - Field Blanks and Equipment Rinsates: FBQW2231 (230761) was the field blank and EBQW2217 (230952) was the equipment rinsate associated with the soil samples in this SDG. Chloroform was detected in the field blank at 0.373 µg/L but was not detected in the site samples. There were no other detects above the MDL in the field QC sample.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

- Internal Standards Performance: Review is not applicable at a Level V validation.

- Compound Identification: Review is not applicable at a Level V validation. The laboratory analyzed for volatile target compounds by Method 8260B.

- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the reporting limit.

- Tentatively Identified Compounds: TICs were reported by the laboratory for this SDG.

- System Performance: Review is not applicable at a Level V validation.

Validated Sample Result Forms: 231342H

Analysis Method 8260B

Sample Name B1BS0077S002 **Matrix Type:** Soil **Result Type:** Primary

Lab Sample Name: 231342003 **Sample** 6/3/2009 10:15:00 AM **Validation** V

Analyte	CAS No	Result Value	RL	MDL	Result	Lab Qualifier	Validation	Validation Notes
1,1,1,2-Tetrachloroethane	630206	1.01	1.01	0.304	ug/kg	U	U	
1,1,1-Trichloroethane	71556	1.01	1.01	0.304	ug/kg	U	U	
1,1,2,2-Tetrachloroethane	79345	1.01	1.01	0.304	ug/kg	U	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	5.06	5.06	1.62	ug/kg	U	U	
1,1,2-Trichloroethane	79005	1.01	1.01	0.304	ug/kg	U	U	
1,1-Dichloroethane	75343	1.01	1.01	0.304	ug/kg	U	U	
1,1-Dichloroethene	75354	1.01	1.01	0.304	ug/kg	U	U	
1,1-Dichloropropene	563586	1.01	1.01	0.304	ug/kg	U	U	
1,2,3-Trichlorobenzene	87616	1.01	1.01	0.304	ug/kg	U	U	
1,2,3-Trichloropropane	96184	1.01	1.01	0.304	ug/kg	U	U	
1,2,4-Trichlorobenzene	120821	1.01	1.01	0.304	ug/kg	U	U	
1,2,4-Trimethylbenzene	95636	1.01	1.01	0.304	ug/kg	U	U	
1,2-Dibromo-3-chloropropane	96128	1.01	1.01	0.506	ug/kg	U	U	
1,2-Dibromoethane (EDB)	106934	1.01	1.01	0.304	ug/kg	U	U	
1,2-Dichlorobenzene	95501	1.01	1.01	0.304	ug/kg	U	U	
1,2-Dichloroethane	107062	1.01	1.01	0.304	ug/kg	U	U	
1,2-Dichloropropane	78875	1.01	1.01	0.304	ug/kg	U	U	
1,3,5-Trimethylbenzene	108678	1.01	1.01	0.304	ug/kg	U	U	
1,3-Dichlorobenzene	541731	1.01	1.01	0.304	ug/kg	U	U	
1,3-Dichloropropane	142289	1.01	1.01	0.304	ug/kg	U	U	
1,4-Dichlorobenzene	106467	1.01	1.01	0.304	ug/kg	U	U	
2,2-dichloropropane	594207	1.01	1.01	0.304	ug/kg	U	U	
2-Butanone (MEK)	78933	11.7	5.06	1.27	ug/kg			
2-Chloro-1,1,1-trifluoroethane	75887	10.1	10.1	3.04	ug/kg	U	U	
2-Chloroethyl vinyl ether	110758	5.06	5.06	1.27	ug/kg	U	U	
2-Chlorotoluene	95498	1.01	1.01	0.304	ug/kg	U	U	
2-Hexanone	591786	5.06	5.06	1.52	ug/kg	U	U	
4-Chlorotoluene	106434	1.01	1.01	0.304	ug/kg	U	U	
4-Methyl-2-pentanone (MIBK)	108101	5.06	5.06	1.27	ug/kg	U	U	
Acetone	67641	61.5	5.06	1.68	ug/kg			
Benzene	71432	1.01	1.01	0.304	ug/kg	U	U	
Bromobenzene	108861	1.01	1.01	0.304	ug/kg	U	U	
Bromochloromethane	74975	1.01	1.01	0.304	ug/kg	U	U	
Bromodichloromethane	75274	1.01	1.01	0.304	ug/kg	U	U	
Bromoform	75252	1.01	1.01	0.304	ug/kg	U	U	

Analysis Method 8260B

Bromomethane	74839	1.01	1.01	0.304	ug/kg	U	U
Carbon Tetrachloride	56235	1.01	1.01	0.304	ug/kg	U	U
Chlorobenzene	108907	1.01	1.01	0.304	ug/kg	U	U
Chloroethane	75003	1.01	1.01	0.304	ug/kg	U	U
Chloroform	67663	1.01	1.01	0.304	ug/kg	U	U
Chloromethane	74873	1.01	1.01	0.304	ug/kg	U	U
Chlorotrifluoroethylene	79389	10.1	10.1	3.04	ug/kg	U	U
cis-1,2-Dichloroethene	156592	1.01	1.01	0.304	ug/kg	U	U
cis-1,3-Dichloropropene	10061015	1.01	1.01	0.304	ug/kg	U	U
Dibromochloromethane	124481	1.01	1.01	0.304	ug/kg	U	U
Dibromomethane	74953	1.01	1.01	0.304	ug/kg	U	U
Dichlorodifluoromethane	75718	1.01	1.01	0.304	ug/kg	U	U
Ethylbenzene	100414	1.01	1.01	0.304	ug/kg	U	U
Hexachlorobutadiene	87683	1.01	1.01	0.304	ug/kg	U	U
Isopropylbenzene	98828	1.01	1.01	0.304	ug/kg	U	U
m,p-Xylenes	136777612	0.427	2.03	0.304	ug/kg	J	J
Methylene chloride	75092	5.06	5.06	2.03	ug/kg	U	U
Methyl-tert-butyl ether (MTBE)	1634044	1.01	1.01	0.304	ug/kg	U	U
n-Butylbenzene	104518	1.01	1.01	0.304	ug/kg	U	U
n-Propylbenzene	103651	1.01	1.01	0.304	ug/kg	U	U
o-Xylene	95476	1.01	1.01	0.304	ug/kg	U	U
p-Isopropyltoluene	99876	1.01	1.01	0.304	ug/kg	U	U
sec-Butylbenzene	135988	1.01	1.01	0.304	ug/kg	U	U
Styrene	100425	0.819	1.01	0.304	ug/kg	J	J
tert-Butylbenzene	98066	1.01	1.01	0.304	ug/kg	U	U
Tetrachloroethene	127184	1.01	1.01	0.304	ug/kg	U	U
Toluene	108883	0.538	1.01	0.304	ug/kg	J	J
trans-1,2-Dichloroethene	156605	1.01	1.01	0.304	ug/kg	U	U
trans-1,3-Dichloropropene	10061026	1.01	1.01	0.304	ug/kg	U	U
Trichloroethene	79016	1.01	1.01	0.304	ug/kg	U	U
Trichlorofluoromethane	75694	1.01	1.01	0.577	ug/kg	U	U
Vinyl chloride	75014	1.01	1.01	0.304	ug/kg	U	U

Analysis Method 8260B

Sample Name B1BS0078S002 **Matrix Type:** Soil **Result Type:** Primary

Lab Sample Name: 231342002 **Sample** 6/3/2009 9:40:00 AM **Validation** V

Analyte	CAS No	Result Value	RL	MDL	Result	Lab Qualifier	Validation	Validation Notes
1,1,1,2-Tetrachloroethane	630206	1.07	1.07	0.322	ug/kg	U	U	
1,1,1-Trichloroethane	71556	1.07	1.07	0.322	ug/kg	U	U	
1,1,2,2-Tetrachloroethane	79345	1.07	1.07	0.322	ug/kg	U	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	5.37	5.37	1.72	ug/kg	U	U	
1,1,2-Trichloroethane	79005	1.07	1.07	0.322	ug/kg	U	U	
1,1-Dichloroethane	75343	1.07	1.07	0.322	ug/kg	U	U	
1,1-Dichloroethene	75354	1.07	1.07	0.322	ug/kg	U	U	
1,1-Dichloropropene	563586	1.07	1.07	0.322	ug/kg	U	U	
1,2,3-Trichlorobenzene	87616	1.07	1.07	0.322	ug/kg	U	U	
1,2,3-Trichloropropane	96184	1.07	1.07	0.322	ug/kg	U	U	
1,2,4-Trichlorobenzene	120821	1.07	1.07	0.322	ug/kg	U	U	
1,2,4-Trimethylbenzene	95636	1.07	1.07	0.322	ug/kg	U	U	
1,2-Dibromo-3-chloropropane	96128	1.07	1.07	0.537	ug/kg	U	U	
1,2-Dibromoethane (EDB)	106934	1.07	1.07	0.322	ug/kg	U	U	
1,2-Dichlorobenzene	95501	1.07	1.07	0.322	ug/kg	U	U	
1,2-Dichloroethane	107062	1.07	1.07	0.322	ug/kg	U	U	
1,2-Dichloropropane	78875	1.07	1.07	0.322	ug/kg	U	U	
1,3,5-Trimethylbenzene	108678	1.07	1.07	0.322	ug/kg	U	U	
1,3-Dichlorobenzene	541731	1.07	1.07	0.322	ug/kg	U	U	
1,3-Dichloropropane	142289	1.07	1.07	0.322	ug/kg	U	U	
1,4-Dichlorobenzene	106467	1.07	1.07	0.322	ug/kg	U	U	
2,2-dichloropropane	594207	1.07	1.07	0.322	ug/kg	U	U	
2-Butanone (MEK)	78933	5.37	5.37	1.34	ug/kg	U	U	
2-Chloro-1,1,1-trifluoroethane	75887	10.7	10.7	3.22	ug/kg	U	U	
2-Chloroethyl vinyl ether	110758	5.37	5.37	1.34	ug/kg	U	U	
2-Chlorotoluene	95498	1.07	1.07	0.322	ug/kg	U	U	
2-Hexanone	591786	5.37	5.37	1.61	ug/kg	U	U	
4-Chlorotoluene	106434	1.07	1.07	0.322	ug/kg	U	U	
4-Methyl-2-pentanone (MIBK)	108101	5.37	5.37	1.34	ug/kg	U	U	
Acetone	67641	5.37	5.37	1.78	ug/kg	U	U	
Benzene	71432	1.07	1.07	0.322	ug/kg	U	U	
Bromobenzene	108861	1.07	1.07	0.322	ug/kg	U	U	
Bromochloromethane	74975	1.07	1.07	0.322	ug/kg	U	U	
Bromodichloromethane	75274	1.07	1.07	0.322	ug/kg	U	U	
Bromoform	75252	1.07	1.07	0.322	ug/kg	U	U	

Analysis Method 8260B

Bromomethane	74839	1.07	1.07	0.322	ug/kg	U	U
Carbon Tetrachloride	56235	1.07	1.07	0.322	ug/kg	U	U
Chlorobenzene	108907	1.07	1.07	0.322	ug/kg	U	U
Chloroethane	75003	1.07	1.07	0.322	ug/kg	U	U
Chloroform	67663	1.07	1.07	0.322	ug/kg	U	U
Chloromethane	74873	1.07	1.07	0.322	ug/kg	U	U
Chlorotrifluoroethylene	79389	10.7	10.7	3.22	ug/kg	U	U
cis-1,2-Dichloroethene	156592	1.07	1.07	0.322	ug/kg	U	U
cis-1,3-Dichloropropene	10061015	1.07	1.07	0.322	ug/kg	U	U
Dibromochloromethane	124481	1.07	1.07	0.322	ug/kg	U	U
Dibromomethane	74953	1.07	1.07	0.322	ug/kg	U	U
Dichlorodifluoromethane	75718	1.07	1.07	0.322	ug/kg	U	U
Ethylbenzene	100414	1.07	1.07	0.322	ug/kg	U	U
Hexachlorobutadiene	87683	1.07	1.07	0.322	ug/kg	U	U
Isopropylbenzene	98828	1.07	1.07	0.322	ug/kg	U	U
m,p-Xylenes	136777612	2.15	2.15	0.322	ug/kg	U	U
Methylene chloride	75092	5.37	5.37	2.15	ug/kg	U	U
Methyl-tert-butyl ether (MTBE)	1634044	1.07	1.07	0.322	ug/kg	U	U
n-Butylbenzene	104518	1.07	1.07	0.322	ug/kg	U	U
n-Propylbenzene	103651	1.07	1.07	0.322	ug/kg	U	U
o-Xylene	95476	1.07	1.07	0.322	ug/kg	U	U
p-Isopropyltoluene	99876	1.07	1.07	0.322	ug/kg	U	U
sec-Butylbenzene	135988	1.07	1.07	0.322	ug/kg	U	U
Styrene	100425	1.04	1.07	0.322	ug/kg	J	J
tert-Butylbenzene	98066	1.07	1.07	0.322	ug/kg	U	U
Tetrachloroethene	127184	1.07	1.07	0.322	ug/kg	U	U
Toluene	108883	1.07	1.07	0.322	ug/kg	U	U
trans-1,2-Dichloroethene	156605	1.07	1.07	0.322	ug/kg	U	U
trans-1,3-Dichloropropene	10061026	1.07	1.07	0.322	ug/kg	U	U
Trichloroethene	79016	1.07	1.07	0.322	ug/kg	U	U
Trichlorofluoromethane	75694	1.07	1.07	0.613	ug/kg	U	U
Vinyl chloride	75014	1.07	1.07	0.322	ug/kg	U	U

Analysis Method 8260B

Sample Name B1BS0080S002 **Matrix Type:** Soil **Result Type:** Primary

Lab Sample Name: 231342001 **Sample** 6/3/2009 7:50:00 AM **Validation** V

Analyte	CAS No	Result Value	RL	MDL	Result	Lab Qualifier	Validation	Validation Notes
1,1,1,2-Tetrachloroethane	630206	1.06	1.06	0.318	ug/kg	U	U	
1,1,1-Trichloroethane	71556	1.06	1.06	0.318	ug/kg	U	U	
1,1,2,2-Tetrachloroethane	79345	1.06	1.06	0.318	ug/kg	U	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	5.3	5.3	1.69	ug/kg	U	U	
1,1,2-Trichloroethane	79005	1.06	1.06	0.318	ug/kg	U	U	
1,1-Dichloroethane	75343	1.06	1.06	0.318	ug/kg	U	U	
1,1-Dichloroethene	75354	1.06	1.06	0.318	ug/kg	U	U	
1,1-Dichloropropene	563586	1.06	1.06	0.318	ug/kg	U	U	
1,2,3-Trichlorobenzene	87616	1.06	1.06	0.318	ug/kg	U	U	
1,2,3-Trichloropropane	96184	1.06	1.06	0.318	ug/kg	U	U	
1,2,4-Trichlorobenzene	120821	1.06	1.06	0.318	ug/kg	U	U	
1,2,4-Trimethylbenzene	95636	0.392	1.06	0.318	ug/kg	J	J	
1,2-Dibromo-3-chloropropane	96128	1.06	1.06	0.53	ug/kg	U	U	
1,2-Dibromoethane (EDB)	106934	1.06	1.06	0.318	ug/kg	U	U	
1,2-Dichlorobenzene	95501	1.06	1.06	0.318	ug/kg	U	U	
1,2-Dichloroethane	107062	1.06	1.06	0.318	ug/kg	U	U	
1,2-Dichloropropane	78875	1.06	1.06	0.318	ug/kg	U	U	
1,3,5-Trimethylbenzene	108678	1.06	1.06	0.318	ug/kg	U	U	
1,3-Dichlorobenzene	541731	1.06	1.06	0.318	ug/kg	U	U	
1,3-Dichloropropane	142289	1.06	1.06	0.318	ug/kg	U	U	
1,4-Dichlorobenzene	106467	1.06	1.06	0.318	ug/kg	U	U	
2,2-dichloropropane	594207	1.06	1.06	0.318	ug/kg	U	U	
2-Butanone (MEK)	78933	5.3	5.3	1.32	ug/kg	U	U	
2-Chloro-1,1,1-trifluoroethane	75887	10.6	10.6	3.18	ug/kg	U	U	
2-Chloroethyl vinyl ether	110758	5.3	5.3	1.32	ug/kg	U	U	
2-Chlorotoluene	95498	1.06	1.06	0.318	ug/kg	U	U	
2-Hexanone	591786	5.3	5.3	1.59	ug/kg	U	U	
4-Chlorotoluene	106434	1.06	1.06	0.318	ug/kg	U	U	
4-Methyl-2-pentanone (MIBK)	108101	5.3	5.3	1.32	ug/kg	U	U	
Acetone	67641	5.3	5.3	1.76	ug/kg	U	U	
Benzene	71432	0.334	1.06	0.318	ug/kg	J	J	
Bromobenzene	108861	1.06	1.06	0.318	ug/kg	U	U	
Bromochloromethane	74975	1.06	1.06	0.318	ug/kg	U	U	
Bromodichloromethane	75274	1.06	1.06	0.318	ug/kg	U	U	
Bromoform	75252	1.06	1.06	0.318	ug/kg	U	U	

Analysis Method 8260B

Bromomethane	74839	1.06	1.06	0.318	ug/kg	U	U
Carbon Tetrachloride	56235	1.06	1.06	0.318	ug/kg	U	U
Chlorobenzene	108907	1.06	1.06	0.318	ug/kg	U	U
Chloroethane	75003	1.06	1.06	0.318	ug/kg	U	U
Chloroform	67663	1.06	1.06	0.318	ug/kg	U	U
Chloromethane	74873	1.06	1.06	0.318	ug/kg	U	U
Chlorotrifluoroethylene	79389	10.6	10.6	3.18	ug/kg	U	U
cis-1,2-Dichloroethene	156592	1.06	1.06	0.318	ug/kg	U	U
cis-1,3-Dichloropropene	10061015	1.06	1.06	0.318	ug/kg	U	U
Dibromochloromethane	124481	1.06	1.06	0.318	ug/kg	U	U
Dibromomethane	74953	1.06	1.06	0.318	ug/kg	U	U
Dichlorodifluoromethane	75718	1.06	1.06	0.318	ug/kg	U	U
Ethylbenzene	100414	0.538	1.06	0.318	ug/kg	J	J
Hexachlorobutadiene	87683	1.06	1.06	0.318	ug/kg	U	U
Isopropylbenzene	98828	1.06	1.06	0.318	ug/kg	U	U
m,p-Xylenes	136777612	1.49	2.12	0.318	ug/kg	J	J
Methylene chloride	75092	5.3	5.3	2.12	ug/kg	U	U
Methyl-tert-butyl ether (MTBE)	1634044	1.06	1.06	0.318	ug/kg	U	U
n-Butylbenzene	104518	1.06	1.06	0.318	ug/kg	U	U
n-Propylbenzene	103651	1.06	1.06	0.318	ug/kg	U	U
o-Xylene	95476	1.06	1.06	0.318	ug/kg	U	U
p-Isopropyltoluene	99876	1.06	1.06	0.318	ug/kg	U	U
sec-Butylbenzene	135988	1.06	1.06	0.318	ug/kg	U	U
Styrene	100425	0.927	1.06	0.318	ug/kg	J	J
tert-Butylbenzene	98066	1.06	1.06	0.318	ug/kg	U	U
Tetrachloroethene	127184	1.06	1.06	0.318	ug/kg	U	U
Toluene	108883	6.45	1.06	0.318	ug/kg		
trans-1,2-Dichloroethene	156605	1.06	1.06	0.318	ug/kg	U	U
trans-1,3-Dichloropropene	10061026	1.06	1.06	0.318	ug/kg	U	U
Trichloroethene	79016	1.06	1.06	0.318	ug/kg	U	U
Trichlorofluoromethane	75694	1.06	1.06	0.604	ug/kg	U	U
Vinyl chloride	75014	1.06	1.06	0.318	ug/kg	U	U

Chain of Custody and Supporting Documentation

232668

CHAIN OF CUSTODY RECORD

COC #: MWHAR20090630_00

Page: 1 of 1

Customer Information		Project Information		Project Information			
Site:	SSFL	Client Name:	Boeing	Collector:	Alison Ruotolo	Boeing PM:	
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521				
Address:	2121 N. California Blvd	Project Manager:	Dixie Hambrick				
	Suite 600	PM Phone #:	(626) 568-6348				
	Walnut Creek	Field Contact:	Shelby Valenzuela				
	CA	Field Contact #:	(626) 255-0503				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell				
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road				
			Charleston, SC 29407				
		Lab Phone:	(843) 769-7388				

Sample Name	Matrix	Date	Time	No. of Containers	Requested Analyses: D2216 Moisture Soil	Requested Analyses: Dioxin by 1613B - Soil	Comments
B1BS0091S001 ✓	Soil	6/30/2009	12:13	1	10	10	
B1BS0092D001 ✓	Soil	6/30/2009	10:33	1	10	10	
B1BS0092S001 ✓	Soil	6/30/2009	10:33	1	10	10	
B1BS0093S001 ✓	Soil	6/30/2009	11:23	1	10	10	
B1BS0094S001 ✓	Soil	6/30/2009	11:00	1	H	H	
B1BS0096S001 ✓	Soil	6/30/2009	11:49	1	H	H	

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	6/30/09		7/1/09				
Company: MWH	Time: 1530	Company:	Time: 900	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑

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232668

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHSD20090630_00

Page: 1 of 1

Customer Information		Project Information		Project Information			
Site:	SSFL	Client Name:	Boeing	Collector:	Shelby Dawson	Boeing PM:	
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521				
Address:	2121 N. California Blvd	Project Manager:	Dixie Hambrick				
	Suite 600	PM Phone #:	(626) 568-6348				
	Walnut Creek	Field Contact:	Shelby Valenzuela				
	CA	Field Contact #:	(626) 255-0503				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell				
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road				
			Charleston, SC 29407				
		Lab Phone:	(843) 769-7388				

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cu Water	Metals 6020 Water Lead	Comments
HZBS0127S001 ✓	Soil	6/30/2009	9:20	1	10	10				
HZBS0128S001 ✓	Soil	6/30/2009	9:45	1	10	10				
HZBS0126S001 ✓	Soil	6/30/2009	9:50	1	H	H				
HZBS0125S001 ✓	Soil	6/30/2009	10:00	1	H	H				
FBQW2234 ✓	Water	6/30/2009	12:30	3			10	10	10	
EBQW2219 ✓	Water	6/30/2009	12:40	3			10			

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	6/30/09	R. M. Stelling	7/1/09				
Company: MWH	Time: 1530	Company: GEL	Time: 900	Company:	Time:	Company:	Time:

Comments: HZBS0125S001 & HZBS0126S001 on Hold.

Geotracker EDF ☐

Data Validation Package ☑

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GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SSFL	**SDG/ARCOC/Work Order:** 232668
Received By: RMS	**Date Received:** 7/1/09

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?		✓	30cpm
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?	✓			Preservation Method: (ice bags) blue ice dry ice none other (describe) 2°
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 3161 5409

PM (or PMA) review: Initials JT Date 7/1/09

Requesting Firm: MWH
Address: 2121 No. California Blvd.
Walnut Creek, CA 94596
Phone: 925-627-4654
Fax: 925-627-4501
E-mail:Sarah.VonRaesfeld@mwhglobal.com

Date: 07/01/09

To: Jackie Trudell **Phone: 843-769-7388**

Laboratory GEL Laboratories, LLC **E-mail:** jacqueline.trudell@gel.com

From: Sarah Von Raesfeld

Requestor signature:

Subject: **Chain-of-Custody Form Analytical Request Change** **No. of Pages: 8**

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

COC No.	Client Sample ID(s)	Date Collected	Originally Requested Analyses	Change (s) and Method (s) Now Requested
MWHBM20090601_00	HZBS0109S001	06/01/09		Run dioxins and % moisture
MWHBM20090602_00	ENBS0082S001 ENBS0083S001 ENBS0084S001	06/02/09		Run SVOC SIM
MWHBM20090603_00	B1BS0080S002	06/03/09		Run TPH and % moisture
MWHBM20090603_00	ILBS0249S002 ILBS0250S001 ILBS0251S001 ILBS0253S001	06/03/09		Run PCBs
MWHBM20090603_00	ILBS0251S002	06/03/09		Run mercury, zinc, and % moisture

The reason for these changes:

Incorrectly marked on COC form _____

Lack of sample volume _____

Change in analytical request X

Other: _____

Thank you

230761?

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090601_00

Page: 1 of 2

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1691614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7368

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6010B Water Aluminum	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Water	TPH by SW8015M - Water	VOC by SW8260B - Water
HZBS0123D001	Soil	6/1/2009	0:00	1	10	10																
HZBS0110S001	Soil	6/1/2009	8:00	1	10	10																
HZBS0109S001	Soil	6/1/2009	8:09	1 (2)	~~H~~ 15	~~H~~ 15																
HZBS0114S001	Soil	6/1/2009	8:18	1	H	H																
HZBS0116S001	Soil	6/1/2009	8:25	1 (1)	~~10~~	~~10~~																
HZBS0111S001	Soil	6/1/2009	8:28	1	10	10																
HZBS0117S001	Soil	6/1/2009	8:41	1	H	H																
HZBS0119S001	Soil	6/1/2009	8:55	1	H	H																
HZBS0120S001	Soil	6/1/2009	9:03	1	10	10																
HZBS0121S001	Soil	6/1/2009	9:15	1	H	H																

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract & Hold

Comments

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Company: MWH	Time: 1615	Company: GEL	Time: 915	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

(1) Cancel analysis SVR 06/08/09

(2) SVR 07/01/09

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2307611

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090601_00

Page: 2 of 2

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones
	sean.jeffer@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6010B Water Aluminum	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Water	TPH by SW8015MM - Water	VOC by SW8260B - Water
HZBS01118S001	Soil	6/1/2009	9:26	1	10	10																
HZBS01125001	Soil	6/1/2009	9:44	1	10	10																
HZBS01136001	Soil	6/1/2009	9:57	1	H	H																
HZBS01248001	Soil	6/1/2009	10:58	1	10	10							10	10								
HZBS01233001	Soil	6/1/2009	11:17	1	10	10																
EBQW2231	Water	6/1/2009	14:05	10			10	10	10	10	10	10			10	10	10	10	10	10	10	10
EBQW2216	Water	6/1/2009	14:25	3			10				10					10						
HZBS01158001	Soil	6/1/2009	15:15	1	10	10																

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract & Hold

Comments

MS/MSD

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Company: MWH	Time: 1615	Company: Gel	Time: 915	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

10

230859?

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090602_00

Page: 1 of 2

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Water Lead	Metals 7470A Water Mercury	Metals 7471A Soil Mercury
A1BS0056S001 ✓	Soil	6/2/2009	7:55	1 (1)	~~10~~	~~10~~									
A1BS0057S001 ✓	Soil	6/2/2009	8:05	1 (1)	~~10~~	~~10~~									
A1BS0058S001 ✓	Soil	6/2/2009	12:15	1	10					10	10	10			10
A1BS0059S001 ✓	Soil	6/2/2009	12:27	1	10					10	10	10			10
A1BS0060S001 ✓	Soil	6/2/2009	12:40	1	10					10	10	10			10
A1BS0061S001 ✓	Soil	6/2/2009	12:50	1	10					10	10	10			10
A1BS0062S001 ✓	Soil	6/2/2009	13:05	1	10					10	10	10			10
EBQW2216 ✓	Water	6/2/2009	14:05	3			10	10	10				10	10	
ENBS0080S001 ✓	Soil	6/2/2009	10:52	1	10	10									
ENBS0081S001 ✓	Soil	6/2/2009	11:03	1	H	H									

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

Comments

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
B. M	6-2-09	R. M. Stelling	6/3/09				
Company: MWH	Time: 1455	Company: Gel	Time: 915	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

(1) Cancel analysis SVR 06/08/09

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2308597

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090602_00

Page: 2 of 2

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Water Lead	Metals 7470A Water Mercury	Metals 7471A Soil Mercury	SVOCs by 8270C SIM-Soil (2)	(1)			Comments
ENBS0082S001	Soil	6/2/2009	9:47	1	10	10					10	10				10				
ENBS0083S001	Soil	6/2/2009	10:05	1	10	10					10	10				10				
ENBS0084S001	Soil	6/2/2009	10:17	1	10	10					10	10				10				
ENBS0085S001	Soil	6/2/2009	8:40	1	10	10														
ENBS0086S001	Soil	6/2/2009	8:50	1	H	H														
ENBS0087S001	Soil	6/2/2009	9:08	1	10	10														
ENBS0088S001	Soil	6/2/2009	9:20	1	H	H														

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
B. M	6-2-09	L.M. Stelling	6/3/09				
Company: MWH	Time: 1455	Company: GEL	Time: 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

(2) SVR 07/01/09

12

2309521

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWH-IBM20090603_00

Page: 1 of 3

Customer Information		Project Information		Project Information			
Site:	SSFL	Client Name:	Boeing	Collector:	B. Martesin	Boeing PM:	
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521				
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl				
	Suite 600	PM Phone #:	(925) 627-4627				
	Walnut Creek	Field Contact:	Brian Martesin				
	CA	Field Contact #:	(323) 304-4969				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell				
	sean.jeffer@mwhglobal.com	Lab Address:	2040 Savage Road				
			Charleston, SC 29407				
		Lab Phone:	(843) 769-7388				

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Metals 6010B Soil Aluminum	Metals 6010B Water Aluminum	Metals 6020 Ba Soil	Metals 6020 Ba Water	Metals 6020 Cd Water	Metals 6020 Cr Water	Metals 6020 Se Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Selenium	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Water Zinc	Metals 7470A Water Mercury	Metals 7471A Soil Mercury	PCB by SW8082 - Soil	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Soil	SVOCs by SW8270C SIM - Water	TPH by SW8015BM - Soil	TPH by SW8015BM - Water	VOC by SW8260B - Soil	VOC by SW8260B - Water	Comments
✓ B1BS0040D001	Soil	6/3/2009	0:00	4 .1	10	10		10						10	10	10	10	10										10		10		
✓ B1TB2008T001	Water	6/3/2009	7:00	3 .2																											10	
✓ B1BS00808001	Soil	6/3/2009	7:43	4 .5	10	10		10						10	10	10	10	10										10		10		
✓ B1BS00808002	Soil	6/3/2009	7:50	4 .3	10	H		H						H	H	H	H	H										EH		FD		E
✓ B1BS00826001	Soil	6/3/2009	8:30	1 .3	10	H		H						10																		
✓ B1BS00826002	Soil	6/3/2009	8:40	1 .3	H	H		H						H																		
✓ B1BS00835001	Soil	6/3/2009	8:55	1 .4	H									H																		
✓ B1BS00815001	Soil	6/3/2009	9:20	1 .5	10	10		10						10			10															
✓ B1BS00785001	Soil	6/3/2009	9:35	4 .1	10	10		10						10	10	10	10	10										10		10		
✓ B1BS00785002	Soil	6/3/2009	9:40	4 .1	H	H		H						H	H	H	H	H										EH		FD		

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by: (2)	Date:
	6-3-09	R.M. Stelling	6/4/09				
Company: MWH	Time: 1515	Company: GEL	Time: 905 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

(2) SVR 06/09/09

(3) SVR 07/01/09

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2309521

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090603_00

Page: 2 of 3

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4827
	Walnut Creek	Field Contact:	Brian Mantasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.jeffer@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information	
Collector:	B. Mantasin
Contact #:	
Boeing PM:	

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Metals 6010B Soil Aluminum	Metals 6010B Water Aluminum	Metals 6020 Be Soil	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Selenium	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	Metals 7471A Soil Mercury	PCB by SW8082 - Soil	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Soil	SVOCs by SW8270C SIM - Water	TPH by SW8015BM - Soil	TPH by SW8015BM - Water	VOC by SW8260B - Soil	VOC by SW8260B - Water
✓ B1B800775001	Soil	6/3/2009	10:00	4	10									10	10	10	10	10										10		10		
✓ B1B800775002	Soil	6/3/2009	10:15	4	H									H	H	H	H	H										EH		10		
✓ ILB802538001	Soil	6/3/2009	10:55	1	10								10	10	10	10		10					10	10		10						
✓ ILB802538002	Soil	6/3/2009	11:00	1	H								H	H	H	H		H					H	EH		EH						
✓ ILB802528001	Soil	6/3/2009	11:15	1	10								10										10									
✓ ILB802528002	Soil	6/3/2009	11:20	1	H								H										H									
✓ ILB802519001	Soil	6/3/2009	12:20	1	10								10	10	10	10		10					10	EH		10						
✓ ILB802519002	Soil	6/3/2009	12:30	1	10								H	H	H	H		H					H	EH		EH						
✓ ILB802506001	Soil	6/3/2009	12:45	1	10								H	10	10	10		10					10	EH		10						
✓ ILB802493001	Soil	6/3/2009	13:00	1	10								H	10	10	10		10					10	EH								

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract & Hold

Comments

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	6-3-09	R.M. Stelling	6/4/09				
Company: MWH	Time: 1515	Company: GEL	Time: 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

① SVR 06/08/09
② SVR 06/09/09
③ SVR 07/01/09

2309521

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090603_00

Page: 3 of 3

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.jeffer@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Metals 6010B Soil Aluminum	Metals 6010B Water Aluminum	Metals 6020 Be Soil	Metals 6020 Be Water	Metals 6020 Co Water	Metals 6020 Cu Water	Metals 6020 Sb Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Selenium	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	Metals 7471A Soil Mercury	PCB by SW8082 - Soil	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Soil	SVOCs by SW8270C SIM - Water	TPH by SW8015BM - Soil	TPH by SW8015BM - Water	VOC by SW8260B - Soil	VOC by SW8260B - Water	Instructions/TAT	Comments
✓ ILBG02498002	Soil	6/3/2009	13:05	1	X								H																				
✓ EBQW2217	Water	6/3/2009	13:30	10			10		10	10	10	10							10	10	10	10			10		10		10					

Instructions/TAT

Legend
Numerical values for analyses equals to turn around time in days

H - Hold
EH - Extract & Hold

(1)

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Company: MWH	Time: 1515	Company: GEL	Time: 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

(1) SVR 06/08/09

(3) SVR 07/01/09

15

Subject: COCs and hold samples
From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com>
Date: Tue, 30 Jun 2009 17:32:16 -0600
To: "jacqueline.trudell@gel.com" <jacqueline.trudell@gel.com>
CC: Sean Leffler <Sean.S.Leffler@us.mwhglobal.com>

Hi Jackie,

Here are the COCs for the samples collected today. I do not expect the field crew to collect any more samples until next Tuesday.

No need to worry about dividing up the samples like I had mentioned earlier, we are just going to run everything in one SDG. Please combine both of the COCs from today with the hold samples listed below.

ILBS0251S002 - turn on mercury and zinc (this sample was not in my previous email)
HZBS0109S002 - turn on analysis for dioxins
ENBS0082S001 - turn on analysis for SVOCs (sample is past HT)
ENBS0083S001 - turn on analysis for SVOCs (sample is past HT)
ENBS0084S001 - turn on analysis for SVOCs (sample is past HT)
B1BS0080S002 - turn on analysis for TPH
ILBS0249S002 – turn on analysis for PCBs
ILBS0250S001 – turn on analysis for PCBs
ILBS0251S001 – turn on analysis for PCBs
ILBS0253S001 – turn on analysis for PCBs

Thanks,
Sarah

MWHAR20090630_00.pdf	**Content-Description:**	MWHAR20090630_00.pdf
	Content-Type:	application/pdf
	Content-Encoding:	base64

MWHSD20090630_00.pdf	**Content-Description:**	MWHSD20090630_00.pdf
	Content-Type:	application/pdf
	Content-Encoding:	base64

2326668H
~~2309521~~ JT 7/1/09

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090603_00

Page: 1 of 3

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1691614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4989
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Metals 6010B Soil Aluminum	Metals 6010B Water Aluminum	Metals 6020 Be Soil	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Selenium	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	Metals 7471A Soil Mercury	PCB by SW8082 - Soil	PCB by SW8082 - Water	SVOCs by SW8270C-SIM - Soil	SVOCs by SW8270C-SIM - Water	TPH by SW8015BM - Soil	TPH by SW8015BM - Water	VOC by SW8260B - Soil	VOC by SW8260B - Water					Comments
B1BS0080D001	Soil	6/3/2009	0:00	4	10	10		10						10	10	10	10	10										10		10						
B1TB2005T001	Water	6/3/2009	7:00	3																											10				
B1BS0080S001	Soil	6/3/2009	7:43	4	10	10		10						10	10	10	10	10										10		10						
B1BS0080S002	Soil	6/3/2009	7:50	4	H	H		H						H	H	H	H	H										EH		EH						
B1BS0082S001	Soil	6/3/2009	8:30	1	10	H		H						10																						
B1BS0082S002	Soil	6/3/2009	8:40	1	H	H		H						H																						
B1BS0083S001	Soil	6/3/2009	8:55	1	H									H																						
B1BS0081S001	Soil	6/3/2009	9:20	1	10	10		10						10			10																			
B1BS0078S001	Soil	6/3/2009	9:35	4	10	10		10						10	10	10	10	10										10		10						
B1BS0078S002	Soil	6/3/2009	9:40	4	H	H		H						H	H	H	H	H										EH		EH						

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days.

H - Hold
EH - Extract & Hold

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Company: MWH	Time: 1515	Company: GEL	Time: 905	Company:	Time:	Company:	Time:

Comments: 945

Geotracker EDF ☐

Data Validation Package ☑ Level IV

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2326684
~~230952~~ 1. JT 7/1/09

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090603_00

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Metals 6010B Soil Aluminum	Metals 6010B Water Aluminum	Metals 6020 Be Soil	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Selenium	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	Metals 7471A Soil Mercury	PCB by SW8082 - Soil	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Soil	SVOCs by SW8270C SIM - Water	TPH by SW8015BM - Soil	TPH by SW8015BM - Water	VOC by SW8260B - Soil	VOC by SW8260B - Water				Comments
✓ B1BS0077S001	Soil	6/3/2009	10:00	4	10									10	10	10	10	10																	
✓ B1BS0077S002	Soil	6/3/2009	10:15	4	H									H	H	H	H	H										10		10					
✓ ILBS0253S001	Soil	6/3/2009	10:55	1	10								10	10	10	10		10					10	EH		10		EH		EH					
✓ ILBS0253S002	Soil	6/3/2009	11:00	1	H								H	H	H	H		H					H	EH		EH								
✓ ILBS0252S001	Soil	6/3/2009	11:15	1	10								10										10												
✓ ILBS0252S002	Soil	6/3/2009	11:20	1	H								H										H												
✓ ILBS0251S001	Soil	6/3/2009	12:20	1	10								10	10	10	10		10					10	EH		10								
✓ ILBS0251S002	Soil	6/3/2009	12:30	1	H								H	H	H	H		H					H	EH		EH								
✓ ILBS0250S001	Soil	6/3/2009	12:45	1	10								H	10	10	10		10					10	EH		10								
✓ ILBS0249S001	Soil	6/3/2009	13:00	1	10								H	10	10	10		10					10	EH		10								

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract & Hold

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	6-3-09	R.M. Stilling	6/4/09				
Company: MWH	Time: 1515	Company: GEL	Time: 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

2326681H

~~2309527~~ JT 7/1/09

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090603_00

Page: 3 of 3

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martesin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martesin	Boeing PM:	
Contact #:			

Sample Name	Matrix	Date	Time	No. of Containers
✓ ILSS02496002	Soil	6/3/2009	13:05	1
✓ ESQW2217	Water	6/3/2009	13:30	10

Requested Analyses

Sample Name	D2216 Moisture Soil	Metals 6010B Soil Aluminum	Metals 6010B Water Aluminum	Metals 6020 Be Soil	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Selenium	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	Metals 7471A Soil Mercury	PCB by SW8082 - Soil	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Soil	SVOCs by SW8270C SIM - Water	TPH by SW8015BM - Soil	TPH by SW8015BM - Water	VOC by SW8260B - Soil	VOC by SW8260B - Water				
ILSS02496002	H								H	H	H	H		H					H	EH		EH								
ESQW2217			10		10	10	10	10							10	10	10	10			10		10		10		10				

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract & Hold

Comments

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
B. Martesin	6-3-09	R.M. Stelling	6/4/09				
Company: MWH	Time: 1515	Company: GEL	Time: 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

19

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SSFL	SDG/ARCOC/Work Order: ~~230952~~ 232668H JT 7/1/09
Received By: RMS	Date Received: 6/4/09

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?		✓	40 cpm
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?	✓			Preservation Method: (ice bags) blue ice dry ice none other (describe) 6, 4°
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 3161 5453 @ 6°
" " 5394 @ 4°

PM (or PMA) review: Initials JT Date 6/4/09

2326684
~~230859~~ JT 7/1/09

Boeing

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090602_00

Page: 1 of 2

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Sample Name	Matrix	Date	Time	No. of Containers	Requested Analyses: D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Water Lead	Metals 7470A Water Mercury	Metals 7471A Soil Mercury	Instructions/TAT / Comments
A1BS0056S001 ✓	Soil	6/2/2009	7:55	1	10	10										
A1BS0057S001 ✓	Soil	6/2/2009	8:05	1	10	10										
A1BS0058S001 ✓	Soil	6/2/2009	12:15	1	10					10	10	10			10	
A1BS0059S001 ✓	Soil	6/2/2009	12:27	1	10					10	10	10			10	
A1BS0060S001 ✓	Soil	6/2/2009	12:40	1	10					10	10	10			10	
A1BS0061S001 ✓	Soil	6/2/2009	12:50	1	10					10	10	10			10	
A1BS0062S001 ✓	Soil	6/2/2009	13:05	1	10					10	10	10			10	
EBQW2216 ✓	Water	6/2/2009	14:05	3			10	10	10				10	10		
ENBS0080S001 ✓	Soil	6/2/2009	10:52	1	10	10										
ENBS0081S001 ✓	Soil	6/2/2009	11:03	1	H	H										

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
B. M	6-2-09	R. M. Stelling	6/3/09				
Company: MWH	Time: 1455	Company: Gel	Time: 915	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

2326608H
~~230859~~ OT 7/1/09

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090602_00

Page: 2 of 2

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Water Lead	Metals 7470A Water Mercury	Metals 7471A Soil Mercury					Comments
ENBS0082S001	Soil	6/2/2009	9:47	1	10	10					10	10								
ENBS0083S001	Soil	6/2/2009	10:05	1	10	10					10	10								
ENBS0084S001	Soil	6/2/2009	10:17	1	10	10					10	10								
ENBS0085S001	Soil	6/2/2009	8:40	1	10	10														
ENBS0086S001	Soil	6/2/2009	8:50	1	H	H														
ENBS0087S001	Soil	6/2/2009	9:08	1	10	10														
ENBS0088S001	Soil	6/2/2009	9:20	1	H	H														

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
B. Martasin	6-2-09	R.M. Stelling	6/3/09				
Company: MWH	Time: 1455	Company: GEL	Time: 0915	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

22

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

232668H

Client: SSFL	SDG/ARCOC/Work Order: ~~330859~~ JT 7/1/09
Received By: RMS	Date Received: 6/3/09

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?		✓	3000 cpm
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?	✓			Preservation Method: (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 3161 5464

PM (or PMA) review: Initials JT Date 6/3/09

2326681H
~~2307617~~ JT 7/1/09

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090601_00

Page: 1 of 2

Customer Information		Project Information		Project Information			
Site:	SSFL	Client Name:	Boeing	Collector:	B. Martasin	Boeing PM:	
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521				
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl				
	Suite 600	PM Phone #:	(925) 627-4627				
	Walnut Creek	Field Contact:	Brian Martasin				
	CA	Field Contact #:	(323) 304-4969				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones				
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road				
			Charleston, SC 29407				
		Lab Phone:	(843) 769-7388				

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6010B Water Aluminum	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Water	TPH by SW8015BM - Water	VOC by SW8260B - Water
HZBS0123D001	Soil	6/1/2009	0:00	1	10	10																
HZBS0110S001	Soil	6/1/2009	8:00	1	10	10																
HZBS0109S001	Soil	6/1/2009	8:09	1	H	H																
HZBS0114S001	Soil	6/1/2009	8:18	1	H	H																
HZBS0116S001	Soil	6/1/2009	8:25	1	10	10																
HZBS0111S001	Soil	6/1/2009	8:28	1	10	10																
HZBS0117S001	Soil	6/1/2009	8:41	1	H	H																
HZBS0119S001	Soil	6/1/2009	8:55	1	H	H																
HZBS0120S001	Soil	6/1/2009	9:03	1	10	10																
HZBS0121S001	Soil	6/1/2009	9:15	1	H	H																

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract & Hold

Comments

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	6-1-09	R.M. Stallings	6/2/09				
Company: MWH	Time: 1615	Company: GEL	Time: 915	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

2326681H
~~230761~~ JT 7/1/09

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090601_00

Page: 2 of 2

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	B. Martasin	Boeing PM:	
Contact #:			

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6010B Water Aluminum	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Water	TPH by SW8015BM - Water	VOC by SW8260B - Water	Comments
HZBS0118S001	Soil	6/1/2009	9:26	1	10	10																	
HZBS0112S001	Soil	6/1/2009	9:44	1	10	10																	MS/MSD
HZBS0113S001	Soil	6/1/2009	9:57	1	H	H																	
HZBS0124S001	Soil	6/1/2009	10:58	1	10	10							10	10									
HZBS0123S001	Soil	6/1/2009	11:17	1	10	10																	
FBQW2231	Water	6/1/2009	14:05	10			10	10	10	10	10	10			10	10	10	10	10	10	10	10	
EBQW2215	Water	6/1/2009	14:25	3			10				10					10							
HZBS0115S001	Soil	6/1/2009	15:15	1	10	10																	

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract & Hold

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	6-1-09	R.M. Stelling	6/2/09				
Company: MWH	Time: 1615	Company: Gel	Time: 945	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

GEL | Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SSFL	SDG/ARCOC/Work Order: ~~230766~~ 232666H JT 7/1/09
Received By: RMS	Date Received: 6/2/09

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?	✓			Preservation Method: (ice bags) blue ice dry ice none other (describe) 4, 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:

Fx: 9457 3161 5372
" " 5383

PM (or PMA) review: Initials JT Date 6/2/09

LABORATORY TASK ORDER (LTO) FORM

INSTRUCTIONS: To be completed by Environmental Contractor & Emailed to Laboratory Project Manager, CH2M HILL (boeingedms@ch2m.com) & the Data Validator at Least 48 hrs prior to need for sample containers. Project Analytical Laboratory will confirm receipt via E-Mail.

Event Name: ISRA Sampling, Feb 2009 **Start:** 2/19/2009 **End:** 2/23/2009

LTO DATE: **LTO NUMBER:**

Consultant Name:	MWH	**Contract Laboratory:**	GEL
Address:	2121 N. California Blvd. Ste. 600	Address:	2040 Savage Rd.
	Walnut Creek, CA 94596		Charleston, SC 29407
Contact Name:	Sarah Von Raesfeld	**Lab Contact Name:**	Cheryl Jones
Phone Number:	925-627-4654	Phone Number:	843-769-7388
Fax Number:	925-627-4501	Fax Number:	843-766-1178
E-mail Address:	Sarah.VonRaesfeld@mwhglobal.com	E-mail Address:	cj@gel.com

SAMPLE CONTAINER ORDER FORM

Date Required: 02/19/09

Date Sample Pickup: NA

Ship Containers To:

Project Site	X	*(enter "X")*
Consultant Office		*(enter "X")*
Other Location (specify in comments)		*(enter "X")*

Container Information:

Trip Blank (VOA only)	Yes	*(Yes/No)*
Temp Blank (VOA Only)	No	*(Yes/No)*
DI Water Required?	No	*(Yes/No)*
MS/MSD Extra Bottles?	No	*(Yes/No)*

Sample Matrix:

Soil	X	*(select all applicable)*
Water	X	*(select all applicable)*
Vapor		*(select all applicable)*

Est. Total # of Samples: 75 Est. Total # of EDDs 5

Requested Analyses: (Specify # of Samples)

	Water	Soil	Contingent
Dioxins - (1613B)	**5**	**9**	**14**
EPA 8015M (DRO)	--	--	--
EPA 8015M (JET FUEL)	--	--	--
EPA 8015M (CC)	--	--	--
EPA 8260B (VOC)	--	--	--
EPA 8270C SIM (SVOC)	--	--	--
EPA 8310 (PAH)	--	--	--
EPA 8082 (PCB)	--	--	--
Acetone (8260B)	--	--	--
EPA TO-15 VOCs (SIM)	--	--	--
Metals (6010B/6020/7470A/7471A)	--	--	--
Cadmium (6020)	**5**	**15**	**10**
Arsenic (6020)	**5**	**5**	**5**
% Moisture (D2216)	**0**	**40**	**30**
Lead (6020)	**5**	**40**	**30**
Copper (6020)	**5**	**10**	**5**
Zinc (6020)	**5**	**10**	**5**
EPA TO-14 (VOCs)	--	--	--

LABORATORY REPORTING REQUIREMENTS

Project TAT:

Normal:	X	(10 Business days)
RUSH:		(Specify- 24 / 48 / 72HRS)
Other :		(Specify # of Days)
Report Due Date:		

Special Reporting Requirements:

Contingent Analysis?	No	*(Yes/No)*
TIC (VOC) Required?	No	*(Yes/No)*
TIC (SVOC) Required?	No	*(Yes/No)*
Data Validation Pckge.:	Tier III	(Boeing Tier I, II or III)

Laboratory Results/Reports Deliverables:

Draft Results Fax?:		(Yes/No)
Draft Results E-mail?:	Yes	(Yes/No)

Specify Fax/E-mail Contact Name, #, E-mail Address: Sarah.VonRaesfeld@mwhglobal.com

Send Original Reports To:

Project Site		*(enter "X")*
Consultant Office		*(enter "X")*
Other Location (specify in comments)	X	*(enter "X")*
# of Copies Reports Req.:	1	

SPECIAL INSTRUCTIONS/LTO NOTES

CONFIRMATION OF TRANSMITTAL & RECEIPT

LTO Sent By:

Name: Sean Leffler

Date: 02/20/09

LTO Received By-

Name:

Date:

LABORATORY TASK ORDER (LTO) FORM (PAGE 2)

ADDITIONAL REQUIRED ANALYSES

LTO DATE: | **LTO NUMBER:**

Consultant Name:	MWH	**Contract Laboratory:**	GEL
Address:	2121 N. California Blvd. Ste. 600	Address:	2040 Savage Rd.
	Walnut Creek, CA 94596		Charleston, SC 29407
Contact Name:	Sarah Von Raesfeld	**Lab Contact Name:**	Cheryl Jones
Phone Number:	925-627-4654	Phone Number:	843-769-7388
Fax Number:	925-627-4501	Fax Number:	843-766-1178
E-mail Address:	Sarah.VonRaesfeld@mwhglobal.com	E-mail Address:	cj@gel.com

SAMPLE CONTAINER ORDER FORM (CONTINUED)

Requested Analyses: **(Specify # of Samples)**

	Water	Soil	Contingent
Arsenic (6020)	--	--	--
Lead (6020)	--	--	--
Cadmium (6020)	--	--	--
Lithium (6020)	--	--	--
Sodium (6020)	--	--	--
Selenium (6020)	--	--	--
Thallium (6020)	--	--	--
Zinc (6020)	--	--	--
Boron (6010B	--	--	--
Vanadium (6010B)	--	--	--
Copper (6020)	--	--	--
Zirconium (6020)	--	--	--

BOEING

CHAIN OF CUSTODY RECORD

COC #: 232668 MWHAR20090630_00

Page: 1 of 1

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Dixie Hambrick
	Suite 600	PM Phone #:	(626) 568-6348
	Walnut Creek	Field Contact:	Shelby Valenzuela
	CA	Field Contact #:	(626) 255-0503
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	Alison Ruotolo	Boeing PM:	
Contact #:			

G341-588

Sample Name	Matrix	Date	Time	No. of Containers	Requested Analyses: D2216 Moisture Soil	Requested Analyses: Dioxin by 1613B - Soil	Comments
B1BS0091S001	Soil	6/30/2009	12:13	1	10	10	
B1BS0092D001	Soil	6/30/2009	10:33	1	10	10	
B1BS0092S001	Soil	6/30/2009	10:33	1	10	10	
B1BS0093S001	Soil	6/30/2009	11:23	1	10	10	
B1BS0094S001	Soil	6/30/2009	11:00	1	H	H	
B1BS0096S001	Soil	6/30/2009	11:49	1	H	H	

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	6/30/09	R.M. Stelling	7/1/09	R.M. Stelling	7/1/09		7/2/09
Company: MWH	Time: 1530	Company:	Time: 900	Company: Gel	Time: 1600	Company: SGS 59	Time: 10:00

Comments:

Geotracker EDF ☐

Data Validation Package ☑

Seal intact

232668

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHSD20090630_00

Page: 1 of 1

G341-888

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521
Address:	2121 N. California Blvd	Project Manager:	Dixie Hambrick
	Suite 600	PM Phone #:	(626) 568-6348
	Walnut Creek	Field Contact:	Shelby Valenzuela
	CA	Field Contact #:	(626) 255-0503
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	Shelby Dawson	Boeing PM:	
Contact #:			

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cu Water	Metals 6020 Water Lead
HZBS0127S001	Soil	6/30/2009	9:20	1	10	10			
HZBS0128S001	Soil	6/30/2009	9:45	1	10	10			
HZBS0126S001	Soil	6/30/2009	9:50	1	H	H			
HZBS0125S001	Soil	6/30/2009	10:00	1	H	H			
FBQW2234	Water	6/30/2009	12:30	3			10	10	10
EBQW2219	Water	6/30/2009	12:40	3			10		

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

Comments

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	6/30/09	R.M. Stelling	7/1/09	R.M. Stelling	7/1/09		7/2/09
Company: MWH	Time: 1530	Company: GEL	Time: 900	Company: GEL	Time: 1600	Company: SGS	Time: 10:00

Comments: HZBS0125S001 & HZBS0126S001 on Hold.

Geotracker EDF ☐

Data Validation Package ☑ Seal intact

44

230761

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090601_00

Page: 1 of 2

G341-583

Customer Information		Project Information		Project Information		Boeing PM:	
Site:	SSFL	Client Name:	Boeing	Collector:	B. Martasin		
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521				
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl				
	Suite 600	PM Phone #:	(925) 627-4627				
	Walnut Creek	Field Contact:	Brian Martasin				
	CA	Field Contact #:	(323) 304-4969				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones				
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road				
			Charleston, SC 29407				
		Lab Phone:	(843) 769-7388				

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6010B Water Aluminum	Metals 6020 Be Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Se Water	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Metals 7470A Water Mercury	PCB by SW8082 - Water	SVOCs by SW8270C SIM - Water	TPH by SW8015BM - Water	VOC by SW8260B - Water
HZBS0123D001	Soil	6/1/2009	0:00	1	10	10																
HZBS0110S001	Soil	6/1/2009	8:00	1	10	10																
HZBS0109S001	Soil	6/1/2009	8:09	1	H	H																
HZBS0114S001	Soil	6/1/2009	8:18	1	H	H																
HZBS0116S001	Soil	6/1/2009	8:25	1	10	10																
HZBS0111S001	Soil	6/1/2009	8:28	1	10	10																
HZBS0117S001	Soil	6/1/2009	8:41	1	H	H																
HZBS0119S001	Soil	6/1/2009	8:55	1	H	H																
HZBS0120S001	Soil	6/1/2009	9:03	1	10	10																
HZBS0121S001	Soil	6/1/2009	9:15	1	H	H																

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract & Hold

Comments

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	6-1-09	R.M. Stellenz	6/2/09	R.M. Stellenz	6/2/09	3.9 Seal intact	6/3/09
Company: MWH	Time: 1615	Company: Gel	Time: 915	Company: Gel	Time: 1700	Company: SGS	Time: 10:05

Comments:

Geotracker EDF [ ]

Data Validation Package [✓] Level IV

Lockamy, Lori Inl (Wilmington)

From: Jacqueline Trudell [jac01439@gel.com]
Sent: Monday, July 06, 2009 8:01 AM
To: Lockamy, Lori Inl (Wilmington)
Subject: Dioxin Add-on

Hi Lori!
Hope you had a wonderful holiday weekend!

Please add sample HZBS0109S001 (sample received on HOLD at SGS) to the SDG of samples received on Thursday of last week.

Thanks!
Jackie

G341-583-3 → G341-588-13

--
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

SGS Environmental Services, Inc.

Cust Proj ID: SSFL 232668
Client Name: General Engineering Labs PO:

G341-588

Due Date: 2009-07-15 17:00:00
Login Date: 2009-07-02 11:47:26

Sample ID		Cust Sample ID	PRI	Date Collected	Date Received	Date Due	Matrix	LOC	Report	Analysis	Status
G341-588-1	A	B1BS0091S001	RUSH	2009-06-30 12:13:00	2009-07-02	2009-07-15	Soil	W2	Full	1613	PR::NEED
G341-588-2	A	B1BS0092D001	RUSH	2009-06-30 10:33:00	2009-07-02	2009-07-15	Soil	W2	Full	1613	PR::NEED
G341-588-3	A	B1BS0092S001	RUSH	2009-06-30 10:33:00	2009-07-02	2009-07-15	Soil	W2	Full	1613	PR::NEED
G341-588-4	A	B1BS0093S001	RUSH	2009-06-30 11:23:00	2009-07-02	2009-07-15	Soil	W2	Full	1613	PR::NEED
G341-588-5	A	B1BS0094S001	RUSH	2009-06-30 11:00:00	2009-07-02	2009-07-15	Soil	W2	Full	1613	LG::HOLD
G341-588-6	A	B1BS0096S001	RUSH	2009-06-30 11:49:00	2009-07-02	2009-07-15	Soil	W2	Full	1613	LG::HOLD
G341-588-7	A	HZBS0127S001	RUSH	2009-06-30 09:20:00	2009-07-02	2009-07-15	Soil	W2	Full	1613	PR::NEED
G341-588-8	A	HZBS0128S001	RUSH	2009-06-30 09:45:00	2009-07-02	2009-07-15	Soil	W2	Full	1613	PR::NEED
G341-588-9	A	HZBS0126S001	RUSH	2009-06-30 09:50:00	2009-07-02	2009-07-15	Soil	W2	Full	1613	LG::HOLD
G341-588-10	A	HZBS0125S001	RUSH	2009-06-30 10:00:00	2009-07-02	2009-07-15	Soil	W2	Full	1613	LG::HOLD
G341-588-11	A	FBQW2234	RUSH	2009-06-30 12:30:00	2009-07-02	2009-07-15	Water	W2	Full	1613	PR::NEED
G341-588-12	A	EBQW2219	RUSH	2009-06-30 12:40:00	2009-07-02	2009-07-15	Water	W2	Full	1613	PR::NEED
G341-588-13	A	HZBS0109S001	RUSH	2009-06-01 08:09:00	2009-06-03	2009-07-15	Soil	W2	Full	1613	PR::NEED

Sample Receipt Checklist (SRC)

SGS Environmetal Services Inc.

Client: **General Engineering Labs** Lab Proj. ID: **G341-588**

Client Proj. ID: **SSFL 232668**

1. X Shipped
__ Hand Delivered
Notes:

2. X Proper, full, and complete documentation
(unique sample identification on durable label with indelible ink, location of collection, date/time of collection, collector's name, preservation type, sample type (method/matrix))
__ Acceptable documentation (but, incomplete)
__ Unacceptable documentation
Notes:

3. __ Custody Tape on Container
X No Custody Tape
Notes:

4. X Samples Intact*
(are in appropriate container, are not damaged, and do not show signs of contamination)
__ Samples Broken / Leaking
__ VOA Vials Checked for Air Bubbles
Notes:

5. X Chilled on Receipt* Actual Temp.(s) in °C: 5.9
__ Ambient on Receipt
__ Walk-in on Ice; Coming down to temp.
__ Received out of temperature protocol
Notes:

6. X Sufficient Sample Submitted
__ Insufficient Sample Submitted
Notes:

7. X Samples Preserved Correctly*
(see preservative checklist where applicable)
__ Improper Preservative(s)
__ None recommended (N/A)
Notes:

8. X Received Within Holding Time
__ Not Received Within Holding Time
__ N/A
Notes:

9. X No Discrepancies Noted
__ Discrepancies Noted
Notes:

Comments:

* = Rejection of sample is required when not marked; Contact client services immediately for a resolution.

Inspected and Logged in by: UNL

DC27.091503.3

Date / Time: Wed-7/15/09 16:42

Table of Contents

Case Narrative

Case Narrative
for
Boeing - SSFL (MWH)
Work Order: 232668
SDG: 232668H

July 16, 2009

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample Receipt

The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on July 01, 2009, June 02, 2009, June 03, 2009 and June 04, 2009 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

The laboratory received the following samples:

Laboratory Identification	Sample Description
232668001	B1BS0091S001
232668002	B1BS0092D001
232668003	B1BS0092S001
232668004	B1BS0093S001
232668005	B1BS0094S001
232668006	B1BS0096S001
232668007	HZBS0127S001
232668008	HZBS0128S001
232668009	HZBS0126S001
232668010	HZBS0125S001
232668011	FBQW2234
232668012	EBQW2219
232668013	ILBS0251S002
232668014	HZBS0109S001
232668015	ENBS0082S001
232668016	ENBS0083S001
232668017	ENBS0084S001
232668018	B1BS0080S002
232668019	ILBS0249S002
232668020	ILBS0250S001
232668021	ILBS0251S001
232668022	ILBS0253S001

Items of Note

Santa Susanna Field Laboratory Technical Representative was contacted seeking resolution to any analytical and/or receipt issues. Please see the enclosed e-mails.

Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Data Package:

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: FID Flame Ionization Detector, GC Semivolatile PCB, GC/MS Semivolatile, Metals, Percent Moisture and Dioxins (SGS Laboratories).

I certify that this data package is in compliance with the terms and conditions of the subcontract and task order, both technically and for the completeness, for other than the conditions detailed in the attached case narratives.

Jacqueline Trudell

Project Manager

Data Qualifiers Definitions

Data Review Qualifier Definitions

Qualifier	Explanation
*	A quality control analyte recovery is outside of specified acceptance criteria
**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
A	The TIC is a suspected aldol-condensation product
B	Target analyte was detected in the associated blank
B	Metals-Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
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
d	5-day BOD-The 2:1 depletion requirement was not met for this sample
E	Organics-Concentration of the target analyte exceeds the instrument calibration range
E	Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
H	Analytical holding time was exceeded
h	Preparation or preservation holding time was exceeded
J	Value is estimated
N	Metals-The Matrix spike sample recovery is not within specified control limits
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	Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
ND	Analyte concentration is not detected above the reporting limit
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
Z	Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

Laboratory Certifications

List of current GEL Certifications as of 16 July 2009

State	Certification
Arizona	AZ0668
Arkansas	88−0651
CLIA	42D0904046
California − NELAP	01151CA
Colorado	GEL
Connecticut	PH−0169
Dept. of Navy	NFESC 413
EPA Region 5	WG−15J
Florida − NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois − NELAP	200029
Indiana	C−SC−01
Kansas − NELAP	E−10332
Kentucky	90129
Louisiana − NELAP	03046
Maryland	270
Massachusetts	M−SC012
Nevada	SC00012
New Jersey − NELAP	SC002
New Mexico	FL NELAP E87156
New York − NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania − NELAP	68−00485
South Carolina	10120001/10120002
Tennessee	TN 02934
Texas − NELAP	T104704235−07B−TX
U.S. Dept. of Agriculture	S−52597
Utah − NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

Subcontract Data
Dioxins

SGS

Laboratory Results

Ms. Jacqueline Trudell
General Engineering Labs
2040 Savage Rd.
Charleston SC 29407

Phone: 843-556-8171
Fax:

Dear Ms. Trudell:

Enclosed is a full data package containing the final results for samples received by SGS Environmental Services, Inc. on July 2, 2009 under your project name "SSFL 232668". The samples were analyzed by Method 1613 following SGS's Standard Operating Procedures and are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards.

Number of Samples Received:	12
Your Project Reference:	SSFL 232668
PAL Project Number:	G341-588

We appreciate your business and look forward to working with you again. Please contact me at 910-350-1903 if you have questions or need additional technical support.

Sincerely,

Lori Lockamy
Project Manager

15 July 2009
Date

DC138.033007.7

SGS

Case Narrative
SGS Project: **G341-588**
Project Name: **SSFL 232668**

For Method: 1613

- The submitted samples were accepted into the lab on June 3rd, 2009 and July 2nd, 2009 and extracted on July 7th, 2009 by method 3540C and July 8th, 2009 by method 3520C. The sample extracts and associated QC extracts were then processed through clean-up as prescribed in the SGS standard operating procedures and analyzed by GC/MS for method 1613.

- The LMB associated with WG17183 contains a "Q" qualifier for $^{13}C_{12}$-1,2,3,7,8,9-HxCDF indicating there is a quantitative interference for this extraction standard. The effect of the interference is a lower reported recovery compared to the other extraction standards. The interference affects the reported recovery only.

- Samples **B1BS0092D001** and **B1BS0092S001** required a 5X dilution due to saturated OCDD analytes. The dilution factor is notated on the form 1's and the reported concentrations have been adjusted. The TEQ for the dilution has been '~' flagged indicating that the result is only a partial.

Tamara Morgan 7-15-09

Tamara Morgan Date
Data Validation

SGS

Table of Contents

Section 1: Cover Letter/Case Narrative

Contains the Table of Contents, a project narrative, the client and SGS project identifiers, the number and type of samples, the methodology used to process the samples, and a summary table of sample results. A listing of current certifications by state, a table of abbreviations and qualifiers and the Toxic Equivalent Factors (TEF) are also supplied.

Section 2: Project Information

Contains the chain-of-custody(s), internal chain-of-custody(s) if applicable, sample login summary, sample receipt checklist, and any other project/client specific information.

Section 3: Sample Analytical Results

Contains results for client samples. Sample results include two pages of summarized analytical data and the associated raw data. The raw data includes a quantitation report from the instrumentation used that lists, ion areas, ratios, retention times, concentrations, and signal-to-noise ratios. It also has the selected ion current profiles (SICPs) for all homolog groups and any manual integrations.

Section 4: Quality Control Analytical Results

Contains results for each analytical workgroup associated with the submitted samples. A workgroup consists of the Lab Method Blank (LMB) and the Ongoing Precision and Recovery sample (OPR). All sample preparation data, including dry weight determinations, extraction logs, clean-up logs and observation notes are also documented. Any other supporting QC data will be documented here upon client request.

Section 5: Initial Calibration

Contains a table summarizing calibration data such as relative response factors, concentrations, and percent relative standard deviation. This section also contains related daily instrument QC information: GC performance data, mass resolution check, windows defining mix, and SICPs for all homolog groups and any manual integrations as well as the injection prep and instrument run logs.

Section 6: Continuing Calibration Data

Contains all daily instrument quality control information. This includes mass resolution checks, a table summarizing the window defining peaks, SICPs for the first and last eluters for each homolog group, SICPs documenting GC performance, a summary quantitation report showing RRFs for the Ccal and Ical, and SICPs for all homolog groups and any manual integrations, injection prep and instrumentation runlogs.

SGS

List of Qualifiers: Dioxin's

B Analyte was detected in the Lab Method Blank at a level above the Reporting Limit.

EDL "Estimated Detection Limit"

EMPC "Estimated Maximum Possible Concentration"

RL Report Limit

CL Control Limit

U Undetected

ppt Parts-per-trillion (pg/g; ng/L)

V Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit.

Outside quality control limits

* Indicates that the ion-ratio fails high or low; analyte reported as an EMPC

An average uncertainty of 30% can be routinely achieved as concluded from the evaluation of HRGC-HRMS standard operating procedures. The following flags warn the data user of situations where the uncertainty may be greater than stated.

A Amount detected is less than the Lower Method Calibration Limit.

J Amount detected is between the Method Detection Limit and the Lower Calibration Limit.

O The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high.

E Amount detected is greater than the Upper Calibration Limit.

S The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s).

Q Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s).

I Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s).

DPE Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s).

DC250.081908.1

DATA VALIDATION REPORT

Boeing SSFL RFI ISRA

SAMPLE DELIVERY GROUP: 232668H

Prepared by

MEC^{X}, LP
12269 East Vassar Drive
Aurora, CO 80014

I. INTRODUCTION

Task Order Title:	Boeing SSFL RFI ISRA
Contract Task Order:	1261.500D.00
Sample Delivery Group:	232668H
Project Manager:	Dixie Hambrick
Matrix:	water/soil
QC Level:	V
No. of Samples:	18
No. of Reanalyses/Dilutions:	0
Laboratory:	GEL

Table 1. Sample Identification

Sample Name	*Lab Sample Name*	*Sub-Lab Sample Name*	*Matrix*	*Collection*	*Method*
B1BS0080S002	232668018	N/A	Soil	6/3/2009 7:50:00 AM	8015B
B1BS0091S001	232668001	G341-588-1B	Soil	6/30/2009 12:13:00 PM	1613B
B1BS0092D001	232668002	G341-588-2B	Soil	6/30/2009 10:33:00 AM	1613B
B1BS0092S001	232668003	G341-588-3B	Soil	6/30/2009 10:33:00 AM	1613B
B1BS0093S001	232668004	G341-588-4B	Soil	6/30/2009 11:23:00 AM	1613B
EBQW2219	232668012	G341-588-12B	Water	6/30/2009 12:40:00 PM	1613B
ENBS0082S001	232668015	N/A	Soil	6/2/2009 9:47:00 AM	8270C
ENBS0083S001	232668016	N/A	Soil	6/2/2009 10:05:00 AM	8270C
ENBS0084S001	232668017	N/A	Soil	6/2/2009 10:17:00 AM	8270C
FBQW2234	232668011	G341-588-11B	Water	6/30/2009 12:30:00 PM	1613B , 6020
HZBS0109S001	232668014	G341-588-13B	Soil	6/1/2009 8:09:00 AM	1613B
HZBS0127S001	232668007	G341-588-7B	Soil	6/30/2009 9:20:00 AM	1613B
HZBS0128S001	232668008	G341-588-8B	Soil	6/30/2009 9:45:00 AM	1613B
ILBS0249S002	232668019	N/A	Soil	6/3/2009 1:05:00 PM	8082
ILBS0250S001	232668020	N/A	Soil	6/3/2009 12:45:00 PM	8082
ILBS0251S001	232668021	N/A	Soil	6/3/2009 12:20:00 PM	8082
ILBS0251S002	232668013	N/A	Soil	6/3/2009 12:30:00 PM	7471A, 6020
ILBS0253S001	232668022	N/A	Soil	6/3/2009 10:55:00 AM	8082

II. Sample Management

No anomalies were observed regarding sample management. The samples in this SDG were received at the laboratory within the temperature limits of 4°C ±2°C. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. Custody seals were intact upon receipt at GEL. No custody seals were present upon receipt at SGS. If necessary, the client ID was added to the sample result summary by the reviewer.

Data Qualifier Reference Table

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. The associated value is the sample detection limit or the quantitation limit for perchlorate only.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
T-I	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration. The tentative identification represents a compound with a CAS number and fit greater than 80%.	Not applicable

T-II	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration. The tentative identification represents a class of compound but not of sufficient identification quality to represent a specific compound.	Not applicable
T-III	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration. The tentative identification represents an unknown compound.	Not applicable
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	Not applicable.
-	False negative – compound was present but not reported.	Not applicable.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.

Qualification Code Reference Table Cont.

D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*II, *III	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.

III. Method Analyses

A. EPA METHOD 1613—Dioxin/Furans

Reviewed By: P. Meeks
Date Reviewed: July 23, 2009

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Dioxins and Furans (DVP-19, Rev. 0), USEPA Method 1613*, and the *National Functional Guidelines Chlorinated Dioxin/Furan Data Review* (10/99).

- Holding Times: Extraction and analytical holding times were met. The samples were extracted and analyzed within one year of collection.

- Instrument Performance: Review is not applicable at a Level V validation.

- Calibration: Review is not applicable at a Level V validation.

- Blanks: OCDD was detected in the soil method blank at 0.666 pg/g; however, all sample detects were above the reporting limit and exceeded 5× the method blank concentration. 1,2,3,7,8-PeCDF and Total PeCDF were detected in the aqueous method blank at 0.000820 ng/L but were not detected in the aqueous samples. Method blanks had no other target compound detects above the EDL.

- Blank Spikes and Laboratory Control Samples: Recoveries were within the acceptance criteria listed in Table 6 of Method 1613 and RPDs were within the laboratory established QC limits.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: FBQW2234 was identified as the field blank and EBQW2219 was identified as the equipment rinsate associated with all samples except HZBS0109S001. FBQW2231 (230761) was the field blank and EBQW2215 (230761) was the equipment rinsate associated with HZBS0109S001. There were no detects above the EDL in any of the field QC samples.

    - Field Duplicates: B1BS0092S001 and B1BS0092D001 were identified as field duplicate samples. All detects were in common and all RPDs were less than 100%.

- Internal Standards Performance: Internal standard recoveries are not routinely evaluated at a Level V validation; however, the recoveries were reported on the sample result

summaries. The labeled standard recoveries were within the acceptance criteria listed in Table 7 of Method 1613.

- Compound Identification: Review is not applicable at a Level V validation. The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613. Confirmation analysis was not performed by the laboratory for 2,3,7,8-TCDF detects reported between the EDL and the adjusted reporting limit; therefore, the results for 2,3,7,8-TCDF were qualified as estimated, "J," in all of the samples of this SDG. The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613.

- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. The laboratory calculated and reported compound-specific detection limits. Quantitative interference, as denoted by a laboratory "Q" code, was present in several results in the samples of this SDG; therefore, any result with a laboratory "Q," code was qualified as estimated, "J," for detects and, "UJ," for nondetects. EMPCs (estimated maximum possible concentration) were identified in the samples of this SDG. Any EMPC was qualified as estimated, "UJ," in the samples of this SDG.

  OCDD in B1BS0092D001 and B1BS0092S001 was analyzed at a 5× dilution but these two analytes and OCDD in HZBS0127S001 were reported above the linear range of the calibration and were qualified as estimated, "J". Any detect below the laboratory lower calibration level was qualified as estimated, "J." The laboratory calculated and reported compound-specific detection limits. Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHODS 6020, 7470A/7471A—Metals and Mercury

Reviewed By: P. Meeks
Date Reviewed: July 23, 2009

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0), EPA Methods 6020, 7470A/7471A*, and the *National Functional Guidelines for Inorganic Data Review* (7/02).

- Holding Times: Analytical holding times, six months for ICP-MS metals and 28 days for mercury, were met.

- Tuning: Review is not applicable at a Level V validation.

- Calibration: Review is not applicable at a Level V validation.

- Blanks: Mercury was reported in the soil method blank at -0.0051 mg/kg; therefore, nondetected mercury in the sample was qualified as estimated, "UJ." There were no other applicable detects in the method blanks or CCBs.

- Interference Check Samples: Review is not applicable at a Level V validation.

- Blank Spikes and Laboratory Control Samples: Recoveries and aqueous RPDs were within laboratory-established QC limits.

- Laboratory Duplicates: Laboratory duplicate analyses were performed on ILBS0251S002 for mercury only. The RPD was within the laboratory-established control limit.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on ILBS0251S002 for mercury only. Recoveries and the RPD were within laboratory-established QC limits.

- Serial Dilution: Serial dilution analyses were performed on FBQW2234, and on ILBS0251S002 for mercury only. The %Ds were within the method-established control limit.

- Internal Standards Performance: Review is not applicable at a Level V validation.

- Sample Result Verification: Review is not applicable at a Level V validation. As the samples in this SDG were validated at Level V, the QC information necessary to make an absolute determination of bias in the samples was not reviewed; therefore, when qualifications were applied, no bias was assigned. The soil ICP-MS analyte was analyzed at the laboratory's standard 2× dilution for soils. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the MDL.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: FBQW2231 (230761) was the field blank and EBQW2219 was the equipment blank associated with the soil sample in this SDG. There were no applicable detects in the field QC samples.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

C. EPA METHOD 8270C—Polynuclear Aromatic Hydrocarbons (PAHs)

Reviewed By: P. Meeks
Date Reviewed: July 23, 2009

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Semivolatile Organics (DVP-3, Rev. 0), EPA Method 8270C*, and the *National Functional Guidelines for Organic Data Review* (10/99).

- Holding Times: The soil samples were extracted beyond the 14-days holding time; therefore all results were qualified as estimated, "J," for detects and, "UJ," for nondetects. All samples were extracted within 40 days of extraction.

- GC/MS Tuning: Review is not applicable at a Level V validation.

- Calibration: Review is not applicable at a Level V validation.

- Blanks: Bis(2-ethylhexyl)phthalate was detected in the method blank at 10.1 µg/kg; therefore, this target analyte was qualified as nondetected, "U," in all samples, either at the RL if detected below the RL or at the level of contamination if detected above. The method blanks had no other target compound detects above the MDL.

- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.

- Surrogate Recovery: Recoveries were within laboratory-established QC limits.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on ENBS0083S001. Recoveries and RPDs were within the laboratory-established control limits.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: FBQW2231 (230761) was the field blank and EBQW2216 (230859) was the equipment rinsate associated with the samples in this SDG. There were no detects above the MDL in the field blank and the equipment rinsate was not analyzed for PAH compounds.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

- Internal Standards Performance: Review is not applicable at a Level V validation.

- Compound Identification: Review is not applicable at a Level V validation. The laboratory analyzed for PAH compounds and added phthalates by low-level Method 8270C.

- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the reporting limit.

- Tentatively Identified Compounds: TICs were not reported by the laboratory for this SDG.

- System performance: System performance is not evaluated at a Level V validation.

D. EPA METHOD 8082—PCBs

Reviewed By: P. Meeks
Date Reviewed: July 23, 2009

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Organochlorine Pesticides/PCBs by GC (DVP-4, Rev. 0), EPA Method 8082*, and the *National Functional Guidelines for Organic Data Review* (10/99).

- Holding Times: The soil samples were extracted beyond the 14-days holding time; therefore, all results (all nondetects) were qualified as estimated, "UJ." All samples were extracted within 40 days of extraction.

- Calibration: Review is not applicable at a Level V validation.

- Blanks: The method blank had no target compound detects above the MDL.

- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.

- Surrogate Recovery: Recoveries were within laboratory-established QC limits.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on ILBS0253S001. All recoveries and RPDs were within the laboratory-established control limits.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: FBQW2231 (230761) was the field blank and EBQW2217 (230952) was the equipment rinsate associated with the samples in this SDG. There were no detects above the MDL in the field QC samples.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

- Compound Identification: Review is not applicable at a Level V validation. The laboratory analyzed for Aroclors by Method 8082.

- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. ILBS0249S001 and ILBS0253S001 were analyzed at 5× dilutions due to oily matrices. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the reporting limit.

E. EPA METHOD 8015B—Extractable Total Fuel Hydrocarbons (EFHs)

Reviewed By: P. Meeks
Date Reviewed: July 23, 2009

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Total Fuel Hydrocarbons (DVP-8, Rev. 0), EPA Method 8015B*, and the *National Functional Guidelines for Organic Data Review* (10/99).

- Holding Times: Extraction and analytical holding times were met. The soil sample was extracted within 14 days of collection and analyzed within 40 days of extraction.

- Calibration: Review is not applicable at a Level V validation.

- Blanks: EFH (C21-C30) was detected at 1.12 mg/kg; however, the sample detect exceeded 5× the method blank concentration. Method blanks had no other target compound detects above the MDL.

- Blank Spikes and Laboratory Control Samples: The recoveries were within laboratory-established QC limits.

- Surrogate Recovery: Recoveries were within laboratory-established QC limits.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on the sample in this SDG. The recoveries and RPD were within the laboratory-established control limits.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: FBQW2231 (230761) was the field blank and EBQW2217 (230952) was the equipment rinsate associated with the samples in this SDG. There were no detects above the MDL in the field QC samples.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

- Compound Identification: Review is not applicable at a Level V validation. Four EFH hydrocarbon ranges were reported: C8-C11, C12-C14, C15-C20, and C21-C30.

- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the reporting limit.

Validated Sample Result Forms: 232668H

Analysis Method 1613B

Sample Name B1BS0091S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-588-1B **Sample Date:** 6/30/2009 12:13:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	155	4.29	0.474	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	10.5	4.29	0.188	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	0.429	4.29	0.314	PG/G	A	**J**	
1,2,3,4,7,8-HxCDD	39227286	0.631	4.29	0.209	PG/G	A	**J**	
1,2,3,4,7,8-HxCDF	70648269	0.794	4.29	0.136	PG/G	A	**J**	
1,2,3,6,7,8-HxCDD	57653857	4.77	4.29	0.213	PG/G			
1,2,3,6,7,8-HxCDF	57117449	0.437	4.29	0.136	PG/G	A	**J**	
1,2,3,7,8,9-HxCDD	19408743	1.89	4.29	0.213	PG/G	A	**J**	
1,2,3,7,8,9-HxCDF	72918219	0.477	4.29	0.179	PG/G	A	**J**	
1,2,3,7,8-PeCDD	40321764	0.211	4.29	0.211	PG/G	EMPC	**UJ**	***III**
1,2,3,7,8-PeCDF	57117416	0.295	4.29	0.0761	PG/G	A	**J**	
2,3,4,6,7,8-HxCDF	60851345	0.631	4.29	0.151	PG/G	A	**J**	
2,3,4,7,8-PeCDF	57117314	0.434	4.29	0.0825	PG/G	A	**J**	
2,3,7,8-TCDD	1746016	0.224	0.857	0.224	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.374	0.857	0.161	PG/G	A Q	**J**	***III**
OCDD	3268879	3080	8.57	0.398	PG/G			
OCDF	39001020	13.4	8.57	0.331	PG/G			
Total HpCDDs	37871004	790	4.29	0.474	PG/G			
Total HpCDFs	38998753	31.7	4.29	0.243	PG/G			
Total HxCDDs	34465468	34.4	4.29	0.212	PG/G			
Total HxCDFs	55684941	21.3	4.29	0.149	PG/G			
Total PeCDDs	36088229	0.257	4.29	0.257	PG/G	QU	**UJ**	***III**
Total PeCDFs	30402154	3.47	4.29	0.0794	PG/G	A Q	**J**	***III**
Total TCDDs	41903575	0.224	0.857	0.224	PG/G	QU	**UJ**	***III**
Total TCDFs	30402143	0.952	0.857	0.161	PG/G			

Analysis Method 1613B

Sample Name B1BS0092D001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-588-2B **Sample Date:** 6/30/2009 10:33:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	1440	4.28	0.195	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	99.9	4.28	0.248	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	3.26	4.28	0.356	PG/G	A	**J**	
1,2,3,4,7,8-HxCDD	39227286	4.26	4.28	0.302	PG/G	A	**J**	
1,2,3,4,7,8-HxCDF	70648269	6.51	4.28	0.277	PG/G			
1,2,3,6,7,8-HxCDD	57653857	41.4	4.28	0.312	PG/G			
1,2,3,6,7,8-HxCDF	57117449	2.57	4.28	0.274	PG/G	A	**J**	
1,2,3,7,8,9-HxCDD	19408743	13	4.28	0.309	PG/G			
1,2,3,7,8,9-HxCDF	72918219	4.09	4.28	0.325	PG/G	A	**J**	
1,2,3,7,8-PeCDD	40321764	1.86	4.28	0.216	PG/G	A	**J**	
1,2,3,7,8-PeCDF	57117416	2.04	4.28	0.189	PG/G	A	**J**	
2,3,4,6,7,8-HxCDF	60851345	4.84	4.28	0.272	PG/G			
2,3,4,7,8-PeCDF	57117314	3.19	4.28	0.195	PG/G	A	**J**	
2,3,7,8-TCDD	1746016	0.269	0.856	0.269	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.811	0.856	0.138	PG/G	A	**J**	***III**
OCDD	3268879	30300	42.8	1.74	PG/G	E	**J**	***III**
OCDF	39001020	113	8.56	0.238	PG/G			
Total HpCDDs	37871004	8340	4.28	0.195	PG/G			
Total HpCDFs	38998753	334	4.28	0.296	PG/G			
Total HxCDDs	34465468	366	4.28	0.308	PG/G			
Total HxCDFs	55684941	236	4.28	0.286	PG/G			
Total PeCDDs	36088229	17.4	4.28	0.216	PG/G			
Total PeCDFs	30402154	30.2	4.28	0.192	PG/G			
Total TCDDs	41903575	2.09	0.856	0.269	PG/G			
Total TCDFs	30402143	3.8	0.856	0.189	PG/G			

Analysis Method 1613B

Sample Name B1BS0092S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-588-3B **Sample Date:** 6/30/2009 10:33:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	988	4.16	1.24	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	66.9	4.16	0.112	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	2.21	4.16	0.158	PG/G	A	J	
1,2,3,4,7,8-HxCDD	39227286	3.54	4.16	0.277	PG/G	A	J	
1,2,3,4,7,8-HxCDF	70648269	4.44	4.16	0.388	PG/G			
1,2,3,6,7,8-HxCDD	57653857	28.6	4.16	0.295	PG/G			
1,2,3,6,7,8-HxCDF	57117449	1.84	4.16	0.396	PG/G	A	J	
1,2,3,7,8,9-HxCDD	19408743	9.58	4.16	0.289	PG/G			
1,2,3,7,8,9-HxCDF	72918219	2.75	4.16	0.444	PG/G	A	J	
1,2,3,7,8-PeCDD	40321764	1.62	4.16	0.132	PG/G	A	J	
1,2,3,7,8-PeCDF	57117416	1.36	4.16	0.0883	PG/G	A	J	
2,3,4,6,7,8-HxCDF	60851345	3.36	4.16	0.4	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	2.18	4.16	0.0969	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.34	0.833	0.34	PG/G	EMPC	UJ	*III
2,3,7,8-TCDF	51207319	0.609	0.833	0.147	PG/G	A	J	*III
OCDD	3268879	20400	41.6	1.56	PG/G	E	J	*III
OCDF	39001020	78.8	8.33	0.211	PG/G			
Total HpCDDs	37871004	6010	4.16	1.24	PG/G			
Total HpCDFs	38998753	220	4.16	0.132	PG/G			
Total HxCDDs	34465468	271	4.16	0.287	PG/G			
Total HxCDFs	55684941	154	4.16	0.406	PG/G			
Total PeCDDs	36088229	19	4.16	0.132	PG/G			
Total PeCDFs	30402154	23.1	4.16	0.0926	PG/G			
Total TCDDs	41903575	3.08	0.833	0.236	PG/G			
Total TCDFs	30402143	3.73	0.833	0.189	PG/G			

Analysis Method 1613B

Sample Name B1BS0093S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-588-4B **Sample Date:** 6/30/2009 11:23:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	7.05	4.23	0.324	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	0.935	4.23	0.17	PG/G	A	**J**	
1,2,3,4,7,8,9-HpCDF	55673897	0.256	4.23	0.256	PG/G	U	**U**	
1,2,3,4,7,8-HxCDD	39227286	0.193	4.23	0.193	PG/G	U	**U**	
1,2,3,4,7,8-HxCDF	70648269	0.157	4.23	0.157	PG/G	EMPC	**UJ**	***III**
1,2,3,6,7,8-HxCDD	57653857	0.837	4.23	0.198	PG/G	A	**J**	
1,2,3,6,7,8-HxCDF	57117449	0.19	4.23	0.129	PG/G	A	**J**	
1,2,3,7,8,9-HxCDD	19408743	0.898	4.23	0.197	PG/G	A	**J**	
1,2,3,7,8,9-HxCDF	72918219	0.218	4.23	0.218	PG/G	EMPC	**UJ**	***III**
1,2,3,7,8-PeCDD	40321764	0.157	4.23	0.157	PG/G	U	**U**	
1,2,3,7,8-PeCDF	57117416	0.122	4.23	0.122	PG/G	EMPC	**UJ**	***III**
2,3,4,6,7,8-HxCDF	60851345	0.161	4.23	0.134	PG/G	A	**J**	
2,3,4,7,8-PeCDF	57117314	0.256	4.23	0.107	PG/G	A	**J**	
2,3,7,8-TCDD	1746016	0.307	0.847	0.307	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.335	0.847	0.335	PG/G	EMPC	**UJ**	***III**
OCDD	3268879	97.3	8.47	0.504	PG/G			
OCDF	39001020	2.15	8.47	0.421	PG/G	A	**J**	
Total HpCDDs	37871004	31.7	4.23	0.324	PG/G			
Total HpCDFs	38998753	2.4	4.23	0.208	PG/G	A	**J**	
Total HxCDDs	34465468	3.55	4.23	0.196	PG/G	A	**J**	
Total HxCDFs	55684941	2	4.23	0.137	PG/G	A	**J**	
Total PeCDDs	36088229	0.157	4.23	0.157	PG/G	U	**U**	
Total PeCDFs	30402154	1.88	4.23	0.112	PG/G	A	**J**	
Total TCDDs	41903575	0.307	0.847	0.307	PG/G	U	**U**	
Total TCDFs	30402143	0.721	0.847	0.224	PG/G	A	**J**	

Analysis Method 1613B

Sample Name EBQW2219 **Matrix Type:** Water **Result Type:** Primary Result

Lab Sample Name: G341-588-12B **Sample Date:** 6/30/2009 12:40:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	0.00299	0.0477	0.00299	NG/L	U	**U**	
1,2,3,4,6,7,8-HpCDF	67562394	0.00164	0.0477	0.00164	NG/L	U	**U**	
1,2,3,4,7,8,9-HpCDF	55673897	0.00254	0.0477	0.00254	NG/L	U	**U**	
1,2,3,4,7,8-HxCDD	39227286	0.00164	0.0477	0.00164	NG/L	U	**U**	
1,2,3,4,7,8-HxCDF	70648269	0.00105	0.0477	0.00105	NG/L	U	**U**	
1,2,3,6,7,8-HxCDD	57653857	0.00163	0.0477	0.00163	NG/L	U	**U**	
1,2,3,6,7,8-HxCDF	57117449	0.00108	0.0477	0.00108	NG/L	U	**U**	
1,2,3,7,8,9-HxCDD	19408743	0.00165	0.0477	0.00165	NG/L	U	**U**	
1,2,3,7,8,9-HxCDF	72918219	0.00155	0.0477	0.00155	NG/L	U	**U**	
1,2,3,7,8-PeCDD	40321764	0.00119	0.0477	0.00119	NG/L	U	**U**	
1,2,3,7,8-PeCDF	57117416	0.000851	0.0477	0.000851	NG/L	U	**U**	
2,3,4,6,7,8-HxCDF	60851345	0.0011	0.0477	0.0011	NG/L	U	**U**	
2,3,4,7,8-PeCDF	57117314	0.000781	0.0477	0.000781	NG/L	U	**U**	
2,3,7,8-TCDD	1746016	0.0023	0.00954	0.0023	NG/L	U	**U**	
2,3,7,8-TCDF	51207319	0.00135	0.00954	0.00135	NG/L	U	**U**	
OCDD	3268879	0.00528	0.0954	0.00528	NG/L	U	**U**	
OCDF	39001020	0.00502	0.0954	0.00502	NG/L	U	**U**	
Total HpCDDs	37871004	0.00299	0.0477	0.00299	NG/L	U	**U**	
Total HpCDFs	38998753	0.00203	0.0477	0.00203	NG/L	U	**U**	
Total HxCDDs	34465468	0.00164	0.0477	0.00164	NG/L	U	**U**	
Total HxCDFs	55684941	0.00118	0.0477	0.00118	NG/L	U	**U**	
Total PeCDDs	36088229	0.00119	0.0477	0.00119	NG/L	U	**U**	
Total PeCDFs	30402154	0.0007	0.0477	0.0007	NG/L	U	**U**	
Total TCDDs	41903575	0.0023	0.00954	0.0023	NG/L	U	**U**	
Total TCDFs	30402143	0.00135	0.00954	0.00135	NG/L	U	**U**	

Analysis Method 1613B

Sample Name FBQW2234 **Matrix Type:** Water **Result Type:** Primary Result

Lab Sample Name: G341-588-11B **Sample Date:** 6/30/2009 12:30:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	0.00284	0.0505	0.00284	NG/L	U	**U**	
1,2,3,4,6,7,8-HpCDF	67562394	0.00152	0.0505	0.00152	NG/L	U	**U**	
1,2,3,4,7,8,9-HpCDF	55673897	0.00252	0.0505	0.00252	NG/L	U	**U**	
1,2,3,4,7,8-HxCDD	39227286	0.00125	0.0505	0.00125	NG/L	U	**U**	
1,2,3,4,7,8-HxCDF	70648269	0.000994	0.0505	0.000994	NG/L	U	**U**	
1,2,3,6,7,8-HxCDD	57653857	0.00126	0.0505	0.00126	NG/L	U	**U**	
1,2,3,6,7,8-HxCDF	57117449	0.000994	0.0505	0.000994	NG/L	U	**U**	
1,2,3,7,8,9-HxCDD	19408743	0.00127	0.0505	0.00127	NG/L	U	**U**	
1,2,3,7,8,9-HxCDF	72918219	0.00139	0.0505	0.00139	NG/L	U	**U**	
1,2,3,7,8-PeCDD	40321764	0.00121	0.0505	0.00121	NG/L	U	**U**	
1,2,3,7,8-PeCDF	57117416	0.000794	0.0505	0.000794	NG/L	U	**U**	
2,3,4,6,7,8-HxCDF	60851345	0.00104	0.0505	0.00104	NG/L	U	**U**	
2,3,4,7,8-PeCDF	57117314	0.000768	0.0505	0.000768	NG/L	U	**U**	
2,3,7,8-TCDD	1746016	0.00198	0.0101	0.00198	NG/L	U	**U**	
2,3,7,8-TCDF	51207319	0.00147	0.0101	0.00147	NG/L	U	**U**	
OCDD	3268879	0.00481	0.101	0.00481	NG/L	U	**U**	
OCDF	39001020	0.00425	0.101	0.00425	NG/L	U	**U**	
Total HpCDDs	37871004	0.00284	0.0505	0.00284	NG/L	U	**U**	
Total HpCDFs	38998753	0.00195	0.0505	0.00195	NG/L	U	**U**	
Total HxCDDs	34465468	0.00126	0.0505	0.00126	NG/L	U	**U**	
Total HxCDFs	55684941	0.0011	0.0505	0.0011	NG/L	U	**U**	
Total PeCDDs	36088229	0.00121	0.0505	0.00121	NG/L	U	**U**	
Total PeCDFs	30402154	0.000628	0.0505	0.000628	NG/L	U	**U**	
Total TCDDs	41903575	0.00198	0.0101	0.00198	NG/L	U	**U**	
Total TCDFs	30402143	0.00147	0.0101	0.00147	NG/L	U	**U**	

Analysis Method 1613B

Sample Name HZBS0109S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-588-13B **Sample Date:** 6/1/2009 8:09:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	21.9	4.36	0.252	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	2.05	4.36	0.126	PG/G	A	**J**	
1,2,3,4,7,8,9-HpCDF	55673897	0.193	4.36	0.193	PG/G	U	**U**	
1,2,3,4,7,8-HxCDD	39227286	0.417	4.36	0.163	PG/G	A	**J**	
1,2,3,4,7,8-HxCDF	70648269	0.187	4.36	0.129	PG/G	A	**J**	
1,2,3,6,7,8-HxCDD	57653857	1.17	4.36	0.167	PG/G	A	**J**	
1,2,3,6,7,8-HxCDF	57117449	0.148	4.36	0.125	PG/G	A	**J**	
1,2,3,7,8,9-HxCDD	19408743	0.921	4.36	0.166	PG/G	A	**J**	
1,2,3,7,8,9-HxCDF	72918219	0.213	4.36	0.149	PG/G	A	**J**	
1,2,3,7,8-PeCDD	40321764	0.279	4.36	0.0956	PG/G	A	**J**	
1,2,3,7,8-PeCDF	57117416	0.0949	4.36	0.0949	PG/G	U	**U**	
2,3,4,6,7,8-HxCDF	60851345	0.152	4.36	0.129	PG/G	A	**J**	
2,3,4,7,8-PeCDF	57117314	0.145	4.36	0.145	PG/G	EMPC	**UJ**	***III**
2,3,7,8-TCDD	1746016	0.219	0.872	0.219	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.272	0.872	0.146	PG/G	A	**J**	***III**
OCDD	3268879	345	8.72	0.353	PG/G			
OCDF	39001020	5.47	8.72	0.315	PG/G	A	**J**	
Total HpCDDs	37871004	83.2	4.36	0.252	PG/G			
Total HpCDFs	38998753	5.37	4.36	0.156	PG/G			
Total HxCDDs	34465468	7.13	4.36	0.165	PG/G			
Total HxCDFs	55684941	3.24	4.36	0.132	PG/G	A	**J**	
Total PeCDDs	36088229	0.583	4.36	0.201	PG/G	A	**J**	
Total PeCDFs	30402154	0.616	4.36	0.1	PG/G	A	**J**	
Total TCDDs	41903575	0.219	0.872	0.219	PG/G	U	**U**	
Total TCDFs	30402143	0.871	0.872	0.146	PG/G	A	**J**	

Analysis Method 1613B

Sample Name HZBS0127S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-588-7B **Sample Date:** 6/30/2009 9:20:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	381	4.21	0.399	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	44.3	4.21	0.116	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	2.34	4.21	0.17	PG/G	A	**J**	
1,2,3,4,7,8-HxCDD	39227286	2.92	4.21	0.166	PG/G	A	**J**	
1,2,3,4,7,8-HxCDF	70648269	2.52	4.21	0.253	PG/G	A	**J**	
1,2,3,6,7,8-HxCDD	57653857	14.7	4.21	0.161	PG/G			
1,2,3,6,7,8-HxCDF	57117449	1.55	4.21	0.269	PG/G	A	**J**	
1,2,3,7,8,9-HxCDD	19408743	5.53	4.21	0.165	PG/G			
1,2,3,7,8,9-HxCDF	72918219	1.42	4.21	0.315	PG/G	A	**J**	
1,2,3,7,8-PeCDD	40321764	1.52	4.21	0.139	PG/G	A	**J**	
1,2,3,7,8-PeCDF	57117416	0.851	4.21	0.195	PG/G	A	**J**	
2,3,4,6,7,8-HxCDF	60851345	2.36	4.21	0.311	PG/G	A	**J**	
2,3,4,7,8-PeCDF	57117314	1.53	4.21	0.216	PG/G	A	**J**	
2,3,7,8-TCDD	1746016	0.314	0.842	0.314	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.752	0.842	0.154	PG/G	A	**J**	***III**
OCDD	3268879	3800	8.42	0.286	PG/G	E	**J**	***III**
OCDF	39001020	150	8.42	0.275	PG/G			
Total HpCDDs	37871004	1450	4.21	0.399	PG/G			
Total HpCDFs	38998753	144	4.21	0.14	PG/G			
Total HxCDDs	34465468	96.3	4.21	0.164	PG/G			
Total HxCDFs	55684941	62.8	4.21	0.286	PG/G			
Total PeCDDs	36088229	12.1	4.21	0.139	PG/G			
Total PeCDFs	30402154	15.4	4.21	0.206	PG/G	Q	**J**	***III**
Total TCDDs	41903575	4.13	0.842	0.314	PG/G			
Total TCDFs	30402143	8.21	0.842	0.117	PG/G			

Analysis Method 1613B

Sample Name HZBS0128S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-588-8B **Sample Date:** 6/30/2009 9:45:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	165	4.2	0.238	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	16.6	4.2	0.139	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	0.857	4.2	0.213	PG/G	A	J	
1,2,3,4,7,8-HxCDD	39227286	2.38	4.2	0.19	PG/G	A	J	
1,2,3,4,7,8-HxCDF	70648269	1.18	4.2	0.129	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	6.48	4.2	0.193	PG/G			
1,2,3,6,7,8-HxCDF	57117449	0.781	4.2	0.129	PG/G	A	J	
1,2,3,7,8,9-HxCDD	19408743	4.29	4.2	0.193	PG/G			
1,2,3,7,8,9-HxCDF	72918219	0.571	4.2	0.143	PG/G	A	J	
1,2,3,7,8-PeCDD	40321764	1.88	4.2	0.256	PG/G	A	J	
1,2,3,7,8-PeCDF	57117416	0.462	4.2	0.244	PG/G	A	J	
2,3,4,6,7,8-HxCDF	60851345	0.917	4.2	0.14	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	0.697	4.2	0.285	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.331	0.84	0.331	PG/G	EMPC	UJ	*III
2,3,7,8-TCDF	51207319	0.48	0.84	0.225	PG/G	A	J	*III
OCDD	3268879	2110	8.4	0.308	PG/G			
OCDF	39001020	53.2	8.4	0.233	PG/G			
Total HpCDDs	37871004	677	4.2	0.238	PG/G			
Total HpCDFs	38998753	49.7	4.2	0.171	PG/G			
Total HxCDDs	34465468	60	4.2	0.192	PG/G			
Total HxCDFs	55684941	23.6	4.2	0.135	PG/G			
Total PeCDDs	36088229	13	4.2	0.256	PG/G			
Total PeCDFs	30402154	7.61	4.2	0.264	PG/G			
Total TCDDs	41903575	4.05	0.84	0.195	PG/G			
Total TCDFs	30402143	4.92	0.84	0.225	PG/G			

Analysis Method 6020

Sample Name FBQW2234 **Matrix Type:** WATER **Result Type:** Primary Result

Lab Sample Name: 232668011 **Sample Date:** 6/30/2009 12:30:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	0.33	1	0.33	ug/L	U	**U**	
Lead	7439921	0.5	2	0.5	ug/L	U	**U**	

Sample Name ILBS0251S002 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 232668013 **Sample Date:** 6/3/2009 12:30:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Zinc	7440666	50.2	2.14	0.427	mg/kg			

Analysis Method 7471A

Sample Name ILBS0251S002 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 232668013 **Sample Date:** 6/3/2009 12:30:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.00439	0.0129	0.00439	mg/kg	U	**UJ**	**B**

Analysis Method 8015B

Sample Name B1BS0080S002 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 232668018 **Sample Date:** 6/3/2009 7:50:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
EFH (C12 - C14)	EFHD (C12	3.44	3.44	1.13	mg/kg	U	**U**	
EFH (C15 - C20)	EFHD (C15	3.44	3.44	1.13	mg/kg	U	**U**	
EFH (C21 - C30)	EFHD (C21	13.2	3.44	1.13	mg/kg	B		
EFH (C8 - C11)	EFHD (C8-	3.44	3.44	1.13	mg/kg	U	**U**	

Analysis Method 8082

Sample Name ILBS0249S002 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 232668019 **Sample Date:** 6/3/2009 1:05:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	17.9	17.9	5.97	ug/kg	U	**UJ**	**H**
Aroclor-1221	11104282	17.9	17.9	5.97	ug/kg	U	**UJ**	**H**
Aroclor-1232	11141165	17.9	17.9	5.97	ug/kg	U	**UJ**	**H**
Aroclor-1242	53469219	17.9	17.9	5.97	ug/kg	U	**UJ**	**H**
Aroclor-1248	12672296	17.9	17.9	5.97	ug/kg	U	**UJ**	**H**
Aroclor-1254	11097691	17.9	17.9	5.97	ug/kg	U	**UJ**	**H**
Aroclor-1260	11096825	17.9	17.9	5.97	ug/kg	U	**UJ**	**H**

Sample Name ILBS0250S001 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 232668020 **Sample Date:** 6/3/2009 12:45:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.65	3.65	1.22	ug/kg	U	**UJ**	**H**
Aroclor-1221	11104282	3.65	3.65	1.22	ug/kg	U	**UJ**	**H**
Aroclor-1232	11141165	3.65	3.65	1.22	ug/kg	U	**UJ**	**H**
Aroclor-1242	53469219	3.65	3.65	1.22	ug/kg	U	**UJ**	**H**
Aroclor-1248	12672296	3.65	3.65	1.22	ug/kg	U	**UJ**	**H**
Aroclor-1254	11097691	3.65	3.65	1.22	ug/kg	U	**UJ**	**H**
Aroclor-1260	11096825	3.65	3.65	1.22	ug/kg	U	**UJ**	**H**

Sample Name ILBS0251S001 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 232668021 **Sample Date:** 6/3/2009 12:20:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.48	3.48	1.16	ug/kg	U	**UJ**	**H**
Aroclor-1221	11104282	3.48	3.48	1.16	ug/kg	U	**UJ**	**H**
Aroclor-1232	11141165	3.48	3.48	1.16	ug/kg	U	**UJ**	**H**
Aroclor-1242	53469219	3.48	3.48	1.16	ug/kg	U	**UJ**	**H**
Aroclor-1248	12672296	3.48	3.48	1.16	ug/kg	U	**UJ**	**H**
Aroclor-1254	11097691	3.48	3.48	1.16	ug/kg	U	**UJ**	**H**
Aroclor-1260	11096825	3.48	3.48	1.16	ug/kg	U	**UJ**	**H**

Analysis Method 8082

Sample Name ILBS0253S001 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 232668022 **Sample Date:** 6/3/2009 10:55:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	18.5	18.5	6.17	ug/kg	U	**UJ**	**H**
Aroclor-1221	11104282	18.5	18.5	6.17	ug/kg	U	**UJ**	**H**
Aroclor-1232	11141165	18.5	18.5	6.17	ug/kg	U	**UJ**	**H**
Aroclor-1242	53469219	18.5	18.5	6.17	ug/kg	U	**UJ**	**H**
Aroclor-1248	12672296	18.5	18.5	6.17	ug/kg	U	**UJ**	**H**
Aroclor-1254	11097691	18.5	18.5	6.17	ug/kg	U	**UJ**	**H**
Aroclor-1260	11096825	18.5	18.5	6.17	ug/kg	U	**UJ**	**H**

Analysis Method 8270C SIM

Sample Name ENBS0082S001 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 232668015 **Sample Date:** 6/2/2009 9:47:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methylnaphthalene	90120	17	17	5.09	ug/kg	Uh	**UJ**	**H**
2-Methylnaphthalene	91576	17	17	3.39	ug/kg	Uh	**UJ**	**H**
Acenaphthene	83329	17	17	5.67	ug/kg	Uh	**UJ**	**H**
Acenaphthylene	208968	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Anthracene	120127	17	17	3.39	ug/kg	Uh	**UJ**	**H**
Benzo(a)anthracene	56553	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Benzo(a)pyrene	50328	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Benzo(b)fluoranthene	205992	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Benzo(ghi)perylene	191242	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Benzo(k)fluoranthene	207089	17	17	5.09	ug/kg	Uh	**UJ**	**H**
bis(2-Ethylhexyl)phthalate	117817	17	17	5.6	ug/kg	BJh	**UJ**	**H, B, result changed from 10.6**
Butyl benzyl phthalate	85687	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Chrysene	218019	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Dibenzo(a,h)anthracene	53703	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Diethylphthalate	84662	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Dimethylphthalate	131113	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Di-n-butylphthalate	84742	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Di-n-octyl-phthalate	117840	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Fluoranthene	206440	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Fluorene	86737	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Indeno(1,2,3-cd)pyrene	193395	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Naphthalene	91203	17	17	5.09	ug/kg	Uh	**UJ**	**H**
n-Nitrosodimethylamine	62759	17	17	3.39	ug/kg	Uh	**UJ**	**H**
Phenanthrene	85018	17	17	5.09	ug/kg	Uh	**UJ**	**H**
Pyrene	129000	17	17	5.33	ug/kg	Uh	**UJ**	**H**

Analysis Method 8270C SIM

Sample Name ENBS0083S001 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 232668016 **Sample Date:** 6/2/2009 10:05:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methylnaphthalene	90120	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
2-Methylnaphthalene	91576	16.9	16.9	3.38	ug/kg	Uh	**UJ**	**H**
Acenaphthene	83329	16.9	16.9	5.65	ug/kg	Uh	**UJ**	**H**
Acenaphthylene	208968	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
Anthracene	120127	16.9	16.9	3.38	ug/kg	Uh	**UJ**	**H**
Benzo(a)anthracene	56553	5.08	16.9	5.08	ug/kg	Jh	**J**	**H**
Benzo(a)pyrene	50328	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
Benzo(b)fluoranthene	205992	8.88	16.9	5.08	ug/kg	Jh	**J**	**H**
Benzo(ghi)perylene	191242	5.19	16.9	5.08	ug/kg	Jh	**J**	**H**
Benzo(k)fluoranthene	207089	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
bis(2-Ethylhexyl)phthalate	117817	16.9	16.9	5.58	ug/kg	BJh	**UJ**	**H, B, result changed from 14.4**
Butyl benzyl phthalate	85687	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
Chrysene	218019	5.91	16.9	5.08	ug/kg	Jh	**J**	**H**
Dibenzo(a,h)anthracene	53703	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
Diethylphthalate	84662	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
Dimethylphthalate	131113	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
Di-n-butylphthalate	84742	6.7	16.9	5.08	ug/kg	Jh	**J**	**H**
Di-n-octyl-phthalate	117840	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
Fluoranthene	206440	5.64	16.9	5.08	ug/kg	Jh	**J**	**H**
Fluorene	86737	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
Indeno(1,2,3-cd)pyrene	193395	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
Naphthalene	91203	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
n-Nitrosodimethylamine	62759	16.9	16.9	3.38	ug/kg	Uh	**UJ**	**H**
Phenanthrene	85018	16.9	16.9	5.08	ug/kg	Uh	**UJ**	**H**
Pyrene	129000	6.63	16.9	5.31	ug/kg	Jh	**J**	**H**

Analysis Method 8270C SIM

Sample Name ENBS0084S001 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 232668017 **Sample Date:** 6/2/2009 10:17:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methylnaphthalene	90120	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
2-Methylnaphthalene	91576	17.1	17.1	3.42	ug/kg	Uh	**UJ**	**H**
Acenaphthene	83329	17.1	17.1	5.72	ug/kg	Uh	**UJ**	**H**
Acenaphthylene	208968	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Anthracene	120127	17.1	17.1	3.42	ug/kg	Uh	**UJ**	**H**
Benzo(a)anthracene	56553	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Benzo(a)pyrene	50328	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Benzo(b)fluoranthene	205992	7.9	17.1	5.14	ug/kg	Jh	**J**	**H**
Benzo(ghi)perylene	191242	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Benzo(k)fluoranthene	207089	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
bis(2-Ethylhexyl)phthalate	117817	34.9	34.9	5.65	ug/kg	Bh	**UJ**	**H, B, RL changed from 17.1**
Butyl benzyl phthalate	85687	12.3	17.1	5.14	ug/kg	Jh	**J**	**H**
Chrysene	218019	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Dibenzo(a,h)anthracene	53703	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Diethylphthalate	84662	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Dimethylphthalate	131113	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Di-n-butylphthalate	84742	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Di-n-octyl-phthalate	117840	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Fluoranthene	206440	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Fluorene	86737	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Indeno(1,2,3-cd)pyrene	193395	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Naphthalene	91203	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
n-Nitrosodimethylamine	62759	17.1	17.1	3.42	ug/kg	Uh	**UJ**	**H**
Phenanthrene	85018	17.1	17.1	5.14	ug/kg	Uh	**UJ**	**H**
Pyrene	129000	5.48	17.1	5.37	ug/kg	Jh	**J**	**H**