# Chain of Custody and Supporting Documentation

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COC #:

CHAIN OF CUSTODY RECORD

DEINE

GEL Laboratories LLC

**SAMPLE RECEIPT & REVIEW FORM** 

r	1				231342H		
Clie	nt: 35F-1				SDG/ARCOC/Work Order: 230957 ST 619109		
Rec	eived By: RMS				Date Received: ( /4/09		
Sus	pected Hazard Information	Yes	°N N	*If ( the ]	Counts $> x^2$ area background on samples not marked "radioactive", contact Radiation Safety Group of further investigation.		
COC	VSamples marked as radioactive?		1	Max	imum Counts Observed*:		
Class	sified Radioactive II or III by RSO?		1		40 cpm		
COC	/Samples marked containing PCBs?		1				
Ship	ped as a DOT Hazardous?		1	Haza	ard Class Shipped: UN#:		
Sam	ples identified as Foreign Soil?		1				
	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 $0 \le 6$ deg. C?	/			Preservation Method: (ice bags) blue ice dry ice none other (describe)		
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?	~		1	Sample ID's, containers affected and observed pH:		
6	VOA vials free of headspace (defined as < 6mm bubble)?	1		5	Sample ID's and containers affected:		
7	Are Encore containers present?			(If yes, immediately deliver to Volatiles laboratory)			
8	Samples received within holding time?	~			d's and tests affected:		
9	Sample ID's on COC match ID's on bottles?	/		s	ample ID's and containers allocicul		
10	Date & time on COC match date & time on bottles?	Λ		s	ample ID's arrected.		
11	Number of containers received match number indicated on COC?	/			ample ID's allocou.		
12	COC form is properly signed in relinquished/received sections?	/					
'omn Fx'	19457 3161 5453 C	6 C 4 C			•		

PM (or PMA) review: Initials

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6/4/09.

Date

Date: 06/09/09

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

To: Jackie Trudell

Laboratory GEL Laboratories, LLC

From:	Sarah Vop Raesfeld
Requestor	signature:

Subject: Chain-of-Custody Form Analytical Request Change

No. of Pages: 4

E-mail:

Phone: 843-769-7388

jacqueline.trudell@gel.com

#### 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	
Other:	

Thank you

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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 Sa	mpling, Feb 2009	Start:	2/19/2009	_ End:	2/23/2009
LTO DATE:			LTO	NUMBER:		
Consultant Name:		MWH	Contract Laboratory:		GEL	
Address:	2121 N	I. California Blvd. Ste. 600	Address	20	040 Savage R	ld.
	Wa	alnut Creek, CA 94596	-	Cha	rleston, SC 29	9407
Contract Name		Sarah Van Daasfald	Lab Contact Name		Charul Janaa	
Contact Name:			Lab Contact Name:			<u> </u>
Filone Number.		925-627-4654	Eav Number		043-709-7300	<u>)</u>
F-mail Address	Sarah	925-027-4501	Fax Nulliber.		ci@del.com	<u> </u>
					<u>ojegei.com</u>	
Date Required:	02/19/0	SAMPLE CO	Requested Analyses:	(St	oecifv # of Same	oles)
			,, <b>,</b> ,	Water	Soil	Contingent
			Dioxins - (1613B)	5	9	14
Date Sample Pickup:	NA		EPA 8015M (DRO)			
			EPA 8015M (JET FUEL)			
Ship Containers To:			EPA 8015M (CC)			
Project Site	Х	(enter "X")	EPA 8260B (VOC)			
Consultant Office		(enter "X")	EPA 8270C SIM (SVOC)			
Other Location (specify in		_	EPA 8310 (PAH)			
comments)		(enter "X")	EPA 8082 (PCB)			
		_	Acetone (8260B)			
<b>Container Information</b>	:		EPA TO-15 VOCs (SIM)			
Trip Blank (VOA only)	Yes	(Yes/No)	Metals (6010B/6020/7470A/7471A)			
Temp Blank (VOA Only)	No	(Yes/No)	Cadmium (6020)	5	15	10
DI Water Required?	No	(Yes/No)	Arsenic (6020)	5	5	5
MS/MSD Extra Bottles?	No	(Yes/No)	% Moisture (D2216)	0	40	30
			Lead (6020)	5	40	30
Sample Matrix:			Copper (6020)	5	10	5
Soil	Х	(select all applicable)	Zinc (6020)	5	10	5
Water	Х	(select all applicable)	EPA TO-14 (VOCs)			
Vapor		(select all applicable)				
Est. Total # of Samples:	75	Est. Total # of EDDs	5			
		LABORATORY R	EPORTING REQUIREMENTS			
Project TAT:			Laboratory Results/Repo	rts Delivera	ables:	
Normal:	Х	(10 Business days)	Draft Results Fax?:		(Yes/No)	
RUSH:		(Specify- 24 / 48 / 72HRS)	Draft Results E-mail?:	Yes	(Yes/No)	
Other :		(Specify # of Days)	Specify Fox/E mail Contact			
Report Due Date:		_	Name # F-mail Address:	Sarah VonRae	sfeld@mwhaloba	al com
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Special Penerting Pee	wiromo	nto.	Send Original Reports 10.		(ontor "Y")	
	luneme				- (enter X)	
Contingent Analysis?	NO	_(Yes/NO)	Consultant Office		_(enter X)	
TIC (VOC) Required?	No	(Yes/No)	Other Location (specify			
TIC (SVOC) Required?	No	(Yes/No)	In comments)	Х	(enter "X")	
Data Validation Pckge.:	Tier III	(Boeing Tier I, II or III)	# of Copies Reports Req.:	1	_	
		SPECIAL IN	STRUCTIONS/LTO NOTES			
		CONFIDMATION		-		
		CONFIRMATION				
LTO Sent By:			LTO Received By-			
Name:	Sean Let	fler	Name:			
Date:	02/20/09		- Date:			
			<u> </u>			

#### LABORATORY TASK ORDER (LTO) FORM (PAGE 2)

#### ADDITIONAL REQUIRED ANALYSES



# Table of Contents

Case Narrative	1
Chain of Custody and Supporting Documentation	3
Data Qualifiers Definitions	14
Laboratory Certifications	16
GC/MS Volatile Analysis Sample Data Summary QC Summary Sample Data Standard Data QC Data Miscellaneous Data	<b>18</b> 24 34 47 82 169 201



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	Sample				
<b>Identification</b>	<b>Description</b>				
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.

Gaequeline a Judel

Jacqueline Trudell Project Manager



#### 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</li>
- 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</p>
- 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.



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

List of current GEL Certifications as of 18 June 2009



# DATA VALIDATION REPORT

Boeing SSFL RFI ISRA

SAMPLE DELIVERY GROUP: 231342H

Prepared by

MEC<sup>X</sup>, LP 12269 East Vassar Drive Aurora, CO 80014

#### I. INTRODUCTION

Boeing SSFL RFI ISRA
1261.500D.00
231342H
Dixie Hambrick
soil
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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  $4^{\circ}C \pm 2^{\circ}C$ . 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.

Qualifie	- 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.
Ν	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

#### Data Qualifier Reference Table

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
Т- 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.

Qualifier	Organics	Inorganics
Н	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
С	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.
В	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.
Е	Not applicable.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
А	Not applicable.	ICP Serial Dilution %D were not within control limits.
Μ	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
Т	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**

#### **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.
Ρ	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*11, *111	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<sup>×</sup>* 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 laboratoryestablished 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	Ν	Matrix T	ype: S	oil	Res	ult Type: Pr	imary
Lab Sample Name:	231342003	Sample	6/	3/2009 10	):15:00 AM	I I	alidation	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	e 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-trifluoroethan	e 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 (MIBH	K) 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	
Thursday, July 09, 2009								Page 1 of 6

	74020	1.01	1.01	0.004	а		
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

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Sample Name	B1BS0078S002	Matrix Type: Soil		Res	imary			
Lab Sample Name:	231342002	Sample	6/	3/2009 9:4	40:00 AM	v	alidation	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-trifluoroethan	e 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 (MIBH	X) 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	
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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

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Sample Name	B1BS0080S002	Ν	Matrix T	ype: S	oil	Res	ult Type: Pr	imary
Lab Sample Name:	231342001	Sample	6/.	3/2009 7:5	50:00 AM	V	alidation	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	e 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-trifluoroethan	e 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	K) 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	
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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

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# Chain of Custody and Supporting Documentation

	1		CHAIN	OF CUS	тору	RECO	RD		coc #:		MWHAR20090630_00
O BO	SING										Page: 1 of 1
Customer	r Information	Project Informa	tion		đ	oject Inf	ormation				
Site:	SSFL	Client Name:	Boeing		ŏ	ollector:	Alison Ruotolo			Boeing PM:	
Company:	HWW	Sampling Event:	ISRA Samplit	ng, June 200	0	ontact #:					
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054	521			æ	equested Ar	lalyses		Instructions/TAT
Address:	2121 N. California Blvd	Project Manager	: Dixie Hambri	ъ,							Legend:
	Suite 600	PM Phone #:	(626) 568-63	48							Numerical values for analyses equate to turn
	Walnut Creek	Field Contact:	Shelby Valer	Izuela							around time in days
	CA	Field Contact #:	(626) 255-05	03		_					H - Hold EH - Extract/Extrude &
	94596	Lab Name:	GEL Laborat	ories, LLC		_					Pold
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trude			D	_				
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage	e Road		Dioxir					Note: Values in the cells
			Charleston,	SC 29407		by '					Times.
		Lab Phone:	(843) 769-73	388		1613					
Samole	eme	Matrix	Date Tin	ne Cont	. of ainers	B - Soil					Comments
B1BS0091	Sout / Soil	9	/30/2009 12:	13	-	0 10					
B1BS0092	iD001 / Soil	9	/30/2009 10:	33	1	0 10	_	_	_		
B1BS0092	Sout Soil	9	/30/2009 10:	33	1 1	0 10		_	-		
B1BS0093	Soul - Soil	9	//30/2009 11:	23	1	0 10		_			
B1BS0094	45001 / Sol	9	//30/2009 11:	00	-	т					
B1BS0096	ssoo1 / Sol	1	3/30/2009 11:	49	-	I I I	_	_	_		
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# CHAIN OF CUSTODY RECORD

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MWHSD20090630\_00 Page: 1 of 1

Customer	Information	Project Informs	ation			Projec	t info	rmatic	Ē									
Site:	SSFL	Client Name:	Boeing			Collect		Shelby	Daws	E				Boeing I	:Wi			
Company:	MWH	Sampling Event:	ISRA S	ampling, Ju	Ine 2009	Contac	##											
Report to:	Sarah Von Raesfeld	Project Number:	189161	4.054521						edue	sted A	nalyses				lns	tructions/TAT	
Address:	2121 N. California Blvd	Project Manager	r: Dixie H	ambrick												Lec	jend:	
	Suite 600	PM Phone #:	(626) 5	68-6348									-			Au	merical values for alyses equate to t	Ę
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	94596	Lab Name:	GEL Li	aboratories,	TTC			_								12	- באוומנעי באוומנעים	5
Email:	sarah.vonraesfeld@mwhglobal.	c Lab Contact:	Jackie	Trudell			Dio	N	Me									
	sean.leffler@mwhglobal.com	Lab Address:	2040 5	avage Roa	p	D22	xin b	letals	tals 6							2	te: Values in the o	slls
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GEL Laboratories LLC

# SAMPLE RECEIPT & REVIEW FORM

Clier	at:SSFL				SDG/ARCOC/Work Order: 727 (ala 8
Rece	ived By: RMS				Date Received: 7/ /~
Susp	ected Hazard Information	s	9	*If C	Sounds > $x^2$ area background on samples not marked "radioactive", contact
COC	Samples marked as radioactive?	×	2	the R	adiation Safety Group of further investigation.
Class	ified Radioactive II or III by PSO2		Ľ	Max	imum Counts Observed*:
COC	Samples marked containing PCPa?		Ľ		sode
Ship	red as a DOT Hazardous?			TTom	
Sam	ples identified as Foreign Soil?			Haza	rd Class Snipped: UN#:
	Sample Receipt Criteria	Ye	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 $0 \le 6$ deg. C?	1			Preservation Method: blue ice dry ice none other (describe)
-3 -	Chain of custody documents included with shipment?	ノ			
4	Sample containers intact and sealed?	/			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	1		1	Sample ID's, containers affected and observed pH: f Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		1	S	Sample ID's and containers affected:
7	Are Encore containers present?				If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?			I	d's and tests affected:
9	Sample ID's on COC match ID's on bottles?	/		s	ample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	1		s	ample ID's affected:
11	Number of containers received match number indicated on COC?	1	-	S	ample ID's affected:
12	COC form is properly signed in relinquished/received sections?	/	ð.		
Comm	ents:				
Fx:	9457 3161 5409				
	PM (or PMA) review: Initial	s		カ	Date 7/1/09
Date: 07/01/09

**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

To: Jackie Trudell

Laboratory GEL Laboratories, LLC

From:	Sarah Von Raesfeld
Requestor	signature:

Subject: Chain-of-Custody Form Analytical Request Change Phone: 843-769-7388

E-mail: jacqueline.trudell@gel.com

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

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CHAIN OF CUSTODY RECORD

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Report to:	Sarah Von Raesfeld	Project Num	ber 18	01614.05462	-		1								_			
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Email:	serah.vormesteld@mwhgiot	ballo Lab Contact:	5 	any Jones			riais		14		Cat	V						
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Geotracker EDF

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

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GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

					15711-911
C	ient: 35F			199	SDGARCOC/Work Order 7 2000 5 2111
Re	ceived By: RMS				Date Received: 1. 100
Su	spected Hazard Information	3	1.9	*1	Counts > x2 area background on samples not marked "rolling
co	C/Samples marked as radioactive?		13	the	Radiation Safety Group of further investigation.
Cla	ssified Radioactive II or III by RSO?	+	ť	Ma	iximum Counts Observed*:
CO	C/Samples marked containing PCBs?	-	K	1-	40 cpm
Shi	pped as a DOT Hazardous?	-	Ď	Ha	rand Class Shimed
San	aples identified as Foreign Soil?	-	5	1	and class Supped: UN#:
<u> </u>	Sample Receipt Criteria	1.5		2	Comments/Onalitiers (Pageing & Con Non On the
1	Shipping containers received intact and sealed?	1			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within $0 \le 6$ deg. C?	7			Freservation Method: ice bags blue ice dry ice none other (describe) (, 4 c
3	Chain of custody documents included with shipment?	1			
4	Sample containers intact and sealed?	/			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	1			Sample ID's, containers affected and observed pH:
6	VOA vials free of headspace (defined as < 6mm bubble)?	1		5	Sample ID's and containers affected:
7	Are Encore containers present?		-	/0	If yes, immediately deliver to Volatiles laboratory)
3	Samples received within holding time?	~		k	Is and tests affected:
	Sample ID's on COC match ID's on bottles?	/		9	imple ID's and containers affected:
,	Date & time on COC match date & time on bottles?	1		S	imple ID's affected:
1	Number of containers received match number indicated on COC?	/		S	unple ID's affected:
2	COC form is properly signed in relinquished/received sections?				
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Company:	HWH	Sampling Event	: ISRA S	ampling,	une 2009	Contac	#										
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	Walnut Creek	Field Contact:	Brian N	lartasin					-							analyse	s equate to turn
	CA	Field Contact #:	(323) 3	04-4969						-							ume in days
	94596	Lab Name:	GELLa	thoratories	TLC	_									-		tract/Extrude &
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackle	Trudell			Di		Meta	M		м	Met			Рон	
	sean.leftler@mwhglobal.com	Lab Address:	2040 S	avage Roa	9	Dioxi D2	oxin	Meta	Meta	etals	Meta	letais	als 74				
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	94596	Lab Name:	GELL	aboratories,	TC							_	M	-			EH - Extrao	VExtrude &
Email:	sarah.vonraesfeld@mwhgtobal.c	Lab Contact:	Jackie	Trudell				Di		Meta	M	м	letals	Met		-		
	sean.leffler@mwhglobal.com	Lab Address:	2040	Savage Roa	P	D2	Dioxi	Meta	Meta	als 60	etals	etals	747	als 74			Alada Vista	- 11
			Charle	ston, SC 29	407	216	in by	ls 60 by 16	ls 60	)20 S	6020	6020	0A W	471A		_	bellow are 7	s in the cells urn Around
		Lab Phone:	(843)	769-7388		Moist	1613	20 C	20 C	oit C	) Soil	Wat	/ater	Soil		_	l mes.	
Sample Na	me	Matrix	Date	Time	No. of Containers	ure Soil	B - Soil	d Water	u Water	admium	Coppe	ter Lead	Mercury	Mercury			Comment	
ENBS0082S	001 Soli	9	12/2009	9:47	-	₽	9	-			7	1	/	,		+		
ENBS0083S	001 Soll	9	12/2009	10:05	-	10	10			F	F			╈		┢		
ENBS0084S	2001 Soll	9	1/2/2009	10:17	-	4	5	-		F	F			┢	L	┢		
ENBS0085S	X001 Sall	9	12/2009	8:40	-	9	<del>9</del>	-	L	┢	┢	┢		┢		┢		
ENBS0086S	X001 Soil	9	12/2009	8:50	-	Ξ	Ŧ		L	$\vdash$	┢			╀		┢		
ENBS0087S	3001 Soil	9	12/2009	9:08	-	9	₽			$\vdash$	┢			┢		╀		T
ENBS0088S	soot Soil	9	012/2009	9:20	+	Ξ	т			$\vdash$	$\vdash$			┢		╀		
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1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
5, 5	6-2-9	e.m. Stullio	6 3/20				
Company: MWH	Time: 1455	Company: Crev	Time:	Company:	Time:	Company:	Time:
Comments:					Geotr	icker EDF	
					Data /	alidation Package 🖌 Level IV	

COC #:

MWHBM20090602\_00

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

			_	_	2.27798H
Clier	1:55 F1				SDG/ARCOC/Work Order: -220859 51 7/1/01
Rece	ived By: RMS				Date Received: 6/3/09
Susp	ected Hazard Information	Yes	No	*If ( the ]	Counts $> x2$ area background on samples not marked "radioactive", contact Radiation Safety Group of further investigation.
COC	/Samples marked as radioactive?		Z	Max	kimum Counts Observed*:
Class	ified Radioactive II or III by RSO?		1		socom
COC	Samples marked containing PCBs?	1	14		
Shipp	ed as a DOT Hazardous?		4	Haz	ard Class Shipped: UN#:
Samp	les identified as Foreign Soil?		2		
	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	1			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within $0 \le 6$ deg. C?				Preservation Method: the bags blue ice dry ice none other (describe)
3	Chain of custody documents included with shipment?	1			
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?	1			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?	1			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?				
Fr:	nents: 9457 3161 5464			7	12/04
	PM (or PMA) review: Initia	ls	0	(	Date

Customer Information         Project Information         Project Information         Project Information           BB:         Sin         Conteners         Binsting         Sin         Conteners         Binsting           Binsting         Sin         Conteners         Data Name         Binsting         Binsting         Binsting           Binsting         Sin         Conteners         Data Name         Binsting	Customer information         Project information         Project information         Project information         Project information           0010001         0101         Berning form         Biolicy         Collectors         Lumin         Berning		EWG.		CHA	VIN OF C	USTODY	REC(	ORD								8	÷	W	MHBM20090601_00
Bits:         SSL.         Clentifier:         Bong         Collectif:         J. Marran           Comparison:         Sampling ferret:         Sixt, Northweited         Pennelling	BB:         SB:         Constraints         Boilty Through Minh         Boilty Failure         Denign Failure         Boilty Comments         Denign Failure         Boilty Comments         Denign Failure         Boilty Comments         Denign Failure         Denigrenign Failure         Denigrenis	Custome	r Information	Project Inform	ation	and an an owner of the state of	A	roject Ir	Iformation				and a second second second				adam y california non a subscription			Page: 1 of 2
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Weindlichek         Fraid Contact:         Brain Martineh           0.2         Fraid Contact:         Brain Martineh           0.3         Fraid Contact:         Brain Martineh           0.4         Fraid Martineh         Fraid Martineh           0.4         Fraid Martineh         Fraid Martineh           1.4         Fraid Martineh <td>Winturcreak         Hard Contacts:         Binn Muntarian           000         00</td> <td></td> <td>Sulte 600</td> <td>PM Phone #:</td> <td>(925) 62</td> <td>7-4627</td> <td>Γ</td> <td>_</td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Numerical va</td> <td>lues for snalyses</td>	Winturcreak         Hard Contacts:         Binn Muntarian           000         00		Sulte 600	PM Phone #:	(925) 62	7-4627	Γ	_				_							Numerical va	lues for snalyses
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HZB601165001     Boil     Gr/12009     B.25     1     10	KIEBOTICEOOT     561     61/7200     6.26     1     10	HZBS01146	S001 808	-	3/1/2009	8:18	Ŧ	Ŧ				t	t	+	I	╞				
H28901115001     Bold     0/12009     6:28     1     10     10     10     10     10       H28801178001     6:03     0/12009     8:41     1     H     H     H     H     H       H2880118001     5:01     0/12009     8:41     1     H     H     H     H     H       H2860118001     5:01     0/12009     8:41     1     H     H     H     H       H2860118001     5:01     0/12009     8:15     1     10     10     H     H     H       H28601218001     5:01     0/12009     9:15     1     10     10     H     H     H     H       H28601218001     5:01     0/12009     9:15     1     H     H     H     H     H       H28601218001     5:01     0/12009     9:15     1     H     H     H     H       H28601218001     5:01     0/12009     9:15     1     H     H     H     H       H28601218001     5:01     0/12009     9:15     1     H     H     H     H       1     1     1     1     1     H     H     H     H       1     1     1	H2800114601     Bol     01/2000     628     1     10 <t< td=""><td>HZBS01165</td><td>S001 808</td><td></td><td>3/1/2009</td><td>8:25</td><td>-</td><td>9</td><td></td><td></td><td></td><td>F</td><td>t</td><td>╞</td><td></td><td>╞</td><td></td><td></td><td></td><td></td></t<>	HZBS01165	S001 808		3/1/2009	8:25	-	9				F	t	╞		╞				
H2B80113601     Soil     6/12009     8.41     1     H     H       H2B801188001     Soil     6/12009     8.45     1     H     H     H       H2B801188001     Soil     6/12009     8.55     1     H     H     H       H2B80128001     Soil     6/12009     8.55     1     H     H     H       H2B60128001     Soil     6/12009     8.55     1     H     H     H       H2B601218001     Soil     6/12009     8.15     1     10     10       H2B601218001     Soil     0/12009     8.15     1     H     H       H2B601218001     Soil     0/12009     8.16     1     H     H       H     H     H     H     H     H     H     H       H2B601218001     Soil     0/12009     8.16     H     H	H2B601178001     Boil     61/2009     8.41     1     H     H     H     H     H     H     H     H       H2B60138001     Sol     01/2009     8.55     1     H     H     H     H     H     H     H       H2B61138001     Sol     01/2009     8.55     1     H     H     H     H     H     H       H2B61218001     Sol     01/2009     8.55     1     H     H     H     H     H       H2B61218001     Sol     01/2009     8.16     1     H     H     H     H     H       H2B61218001     Sol     01/2009     8.16     1     H     H     H     H       H2B61218001     Sol     01/2009     8.16     1     H     H     H     H       H2B61218001     Sol     01/2009     8.16     1     H     H     H     H       H2B61218001     Sol     01/2009     8.16     1     H     H     H     H       H2B61218001     Sol     01/200     1     H     H     H     H       H     H     H     H     H     H     H     H       H     H     H	HZBS0111	SQ01. Soll	-	3/1/2009	6:28	-	2				F	t		F	╞		+		
H2B601198001         Soil         0/12009         8.55         1         H <td>H2B01198001       501       61/12006       525       1       H<td>HZBS01178</td><td>5001 Suit</td><td></td><td>3/1/2009</td><td>8:41</td><td>-</td><td>Ξ</td><td></td><td></td><td></td><td>Ŧ</td><td>t</td><td>+</td><td>Ŧ</td><td>+</td><td>ľ</td><td></td><td></td><td></td></td>	H2B01198001       501       61/12006       525       1       H <td>HZBS01178</td> <td>5001 Suit</td> <td></td> <td>3/1/2009</td> <td>8:41</td> <td>-</td> <td>Ξ</td> <td></td> <td></td> <td></td> <td>Ŧ</td> <td>t</td> <td>+</td> <td>Ŧ</td> <td>+</td> <td>ľ</td> <td></td> <td></td> <td></td>	HZBS01178	5001 Suit		3/1/2009	8:41	-	Ξ				Ŧ	t	+	Ŧ	+	ľ			
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Site:	SFL	Client Name:	Boeing		Collecto	r: 8.N	artasin							-	Inc Die.		
Company:	HMM	Sampling Event:	ISRA Samplin	1, June 2009	Contact	*									IN LAW		
Report to:	Sarah Von Raesfeld	Project Number:	1891614,0545	21						Rec	uester	Anahee		_			
Address:	2121 N. California Blvd	Project Manager:	Alex Fischi														uctions/TAT
<u> </u>	Sulta 600	PM Phone #:	(925) 627-462	2			_								_	Nume	rical values for analyses
-	Nahnut Creek	Field Contact:	Brian Martasin			-											e to turn around time in day.
-	CA	Field Contact #:	(323) 304-496		_			_			_					운 박 ·	old Extract & Hold
	94596	Lab Name:	<b>GEL Laborato</b>	ies, LLC		Me					_	svo					
imail:	terah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones			tais (			Ma		Meta	TPH Cs by	V				
	teen jeffier@mwhglobel.com	Leb Address:	2040 Savage I	Road	Dio	BO10 Xioxia	Me	Me	tais ( Me	Meta	PCB	by SVA	ос в				
-			Charleston, S(	3 29407	xin b 2216	B Wa	als 6	s 600 tais 6	3020 tals (	tals Is 60	by S 70A	SW8	y SW				
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Company: MWH		TIMO: 1615	Company	1		E Construction	10	Compar	ž				Time:	Con	:Aued		Time:
Comments															Geotracker	EDF	
															Data Validat	tion Package	Level IV

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Cli	ent:54 El				2326644
Re	ceived By: $\rho \wedge \wedge$				SDG/ARCOC/Work Order: 230761 JT HULDA
F	KING				Date Received: 6/8/09
Sus	spected Hazard Information	Yes	l	*If	Counts > x2 area background on samples not marked "radioactive", contain
co	C/Samples marked as radioactive?	+-	15	Ma	Radiation Safety Group of further investigation.
Cla	ssified Radioactive II or III by RSO?	+-	ť	1	2 2 2 2
CO	C/Samples marked containing PCBs?	1	12	1	adam
Ship	oped as a DOT Hazardous?	1		Ha	zard Class Shipped:
Sam	ples identified as Foreign Soil?		1		
	Sample Receipt Criteria	Yes	A	No.	Comments/Onalitiers (Required for New Condense)
1	Shipping containers received intact and sealed?	1			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within $0 \le 6$ deg. C?	7			Preservation Method: blue ice dry ice none other (describe)
3	Chain of custody documents included with shipment?	7			•
4	Sample containers intact and sealed?	1			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	1			Sample ID's, containers affected and observed pH:
6	VOA vials free of headspace (defined as < 6mm bubble)?	1	1		Sample ID's and containers affected:
7	Are Encore containers present?			/	If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	~		I	d's and tests affected:
9	Sample ID's on COC match ID's on bottles?	/		S	ample ID's and containers affected:
0	Date & time on COC match date & time on bottles?			S	ample ID's affected:
1	Number of containers received match number indicated on COC?	/		S	ample ID's affected:
2	COC form is properly signed in elinquished/received sections?	/			
nme	9457 3161 5372 -, 5383				
_	PM (or PMA) review. Initiala		T		Det 1/2/06

## 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 Sa	mpling, Feb 2009	Start:	2/19/2009	_ End:	2/23/2009
LTO DATE:			LTO	NUMBER:		
Consultant Name:		MWH	Contract Laboratory:		GEL	
Address:	2121 N	I. California Blvd. Ste. 600	Address	20	040 Savage R	d.
	Wa	alnut Creek, CA 94596	-	Cha	rleston, SC 29	9407
Contract Name		Sarah Van Baasfald	Lab Contact Name		Charul Janaa	
Contact Name:			Lab Contact Name:			)
Filone Number.		925-027-4054	Eav Number		043-709-7300	<u>)</u>
F-mail Address	Sarah	925-027-4501	Fax Nulliber.		ci@del.com	)
					<u>ojegei.com</u>	
Date Required:	02/19/0	SAMPLE CO	Requested Analyses:	(St	oecifv # of Same	les)
			,, <b>,</b> ,	Water	Soil	Contingent
			Dioxins - (1613B)	5	9	14
Date Sample Pickup:	NA		EPA 8015M (DRO)			
			EPA 8015M (JET FUEL)			
Ship Containers To:			EPA 8015M (CC)			
Project Site	Х	(enter "X")	EPA 8260B (VOC)			
Consultant Office		enter "X")	EPA 8270C SIM (SVOC)			
Other Location (specify in		-	EPA 8310 (PAH)			
comments)		(enter "X")	EPA 8082 (PCB)			
		_	Acetone (8260B)			
<b>Container Information</b>	:		EPA TO-15 VOCs (SIM)			
Trip Blank (VOA only)	Yes	(Yes/No)	Metals (6010B/6020/7470A/7471A)			
Temp Blank (VOA Only)	No	(Yes/No)	Cadmium (6020)	5	15	10
DI Water Required?	No	(Yes/No)	Arsenic (6020)	5	5	5
MS/MSD Extra Bottles?	No	(Yes/No)	% Moisture (D2216)	0	40	30
			Lead (6020)	5	40	30
Sample Matrix:			Copper (6020)	5	10	5
Soil	Х	(select all applicable)	Zinc (6020)	5	10	5
Water	Х	(select all applicable)	EPA TO-14 (VOCs)			
Vapor		(select all applicable)				
Est. Total # of Samples:	75	Est. Total # of EDDs	5			
		LABORATORY R	EPORTING REQUIREMENTS			
Project TAT:			Laboratory Results/Repo	rts Delivera	ables:	
Normal:	Х	(10 Business days)	Draft Results Fax?:		(Yes/No)	
RUSH:		(Specify- 24 / 48 / 72HRS)	Draft Results E-mail?:	Yes	(Yes/No)	
Other :		(Specify # of Days)	Specify Fox/E mail Contact			
Report Due Date:		_	Name # F-mail Address:	Sarah VonRae	sfeld@mwhaloba	l com
riopoir Duo Duio.			Send Original Reports To:		loid e mingloba	
Special Penerting Pee	wiromo	nto.	Send Original Reports 10.		(ontor "Y")	
	luneme	(III.3.			- (enter X)	
Contingent Analysis?	NO	(Yes/NO)	Consultant Office		_(enter X)	
TIC (VOC) Required?	No	(Yes/No)	Other Location (specify			
TIC (SVOC) Required?	No	(Yes/No)	In comments)	Х	(enter "X")	
Data Validation Pckge.:	Tier III	(Boeing Tier I, II or III)	# of Copies Reports Req.:	1	_	
		SPECIAL IN	STRUCTIONS/LTO NOTES			
		CONFIDMATION		-		
		CONFIRMATION				
LTO Sent By:			LTO Received By-			
Name:	Sean Let	fler	Name:			
Date:	02/20/09		Date:			
			-			

# LABORATORY TASK ORDER (LTO) FORM (PAGE 2)

# ADDITIONAL REQUIRED ANALYSES



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CHAIN OF CUSTODY RECORD

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MWHAR20090630\_00

coc #:

Customer	r Information	Project Inform	nation			Project In	formation	1-172-1-12	29		
Site:	SSFL	Client Name:	Boein	f		Collector:	Alison Ruotolo		Boeing PM:		
Company:	MWH	Sampling Even	It: ISRA	Sampling, J	une 2009	Contact #:					
Report to:	Sarah Von Raesfeld	Project Numbe	r: 18916	14.054521			Re	quested Analyses		Instructions/TAT	
Address:	2121 N. California Blvd	Project Manage	er: Dixie I	lambrick							
	Suite 600	PM Phone #:	(626)	568-6348						Legend: Numerical values for	
	Walnut Creek	Field Contact:	Shelby	/ Valenzuela	8					analyses equate to tur around time in days	Ē
	CA	Field Contact #	t: (626) :	255-0503							
	94596	Lab Name:	GELL	aboratories	TLC	, ,				EH - Extract/Extrude 8	
Email:	sarah.vonraesfeld@mwhgloba	Lc Lab Contact:	Jackie	Trudell							
	sean.leffler@mwhglobal.com	Lab Address:	2040	Savage Roa	g	Diox D2					
			Charle	ston, SC 29	9407	in by 216				bellow are Turn Aroun	ς ν Γ
		Lab Phone:	(843)	769-7388		1613 Vioist				Times.	
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Sample No	ame	Matrix	Date	Time	Containers	Soil Soil				Comments	
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											-



D. BO	EING		CH	AIN OF	CUSTOD	Y RE	NO.	Q				ö	¥			M	VHSD20090630_C
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Customer	· Information	Project Inform	ation			Project	t Info	matic	ŗ	5		9 8	0				
Site:	SSFL	Client Name:	Boeing	_		Collect	ц Ц	Shelby	Dawso	Ę				oeing PI	ÿ		
Company:	HWH	Sampling Event	: ISRA S	Sampling, Ju	une 2009	Contac	#								+		
Report to:	Sarah Von Raesfeld	Project Number	: 18916	14.054521					E.	senber	sted Ana	alyses			_	lns	tructions/TAT
Address:	2121 N. California Blvd	Project Manage	r: Dixie H	lambrick													1
	Suite 600	PM Phone #:	(626) 5	68-6348												Son Ceg	rend. merical values for
	Walnut Creek	Field Contact:	Shelby	Valenzuela											<u> </u>	ana aro	liyses equate to turn und time in days
	CA	Field Contact #	(626) 2	255-0503												Ŧ	Hold
	94596	Lab Name:	GELL	aboratories,	TLC											표호	- Extract/Extrude & d
Email:	sarah.vonraesfeld@mwhglobal.	c Lab Contact:	Jackie	Trudell			Di		Me								
	sean.leffler@mwhglobal.com	Lab Address:	2040 5	savage Roa	P	Dioxi D2:	oxin	Meta	atals							Not	e: Values in the cells
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		Lab Phone:	(843) 7	69-7388		1613 <i>M</i> oisti	13B	20 Ci	Wate								
Sample Na	Ð	Matrix	Date	Time	No. of Containers	B - Soil ure Soil	- Water	ı Water	er Lead		,4					ပိ	mments
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FBQW2234	M	ater	\$/30/2009		3		10	10	10								
EBQW2219	×	ater	\$/30/2009	12:40	ю		ę										





# Lockamy, Lori Inl (Wilmington)

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

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15 17:00:00 02 11:47:26	Status	PR::NEED	PR::NEED	PR::NEED	PR::NEED	LG::HOLD	LG::HOLD	PR::NEED	PR::NEED	LG::HOLD	LG::HOLD	PR::NEED	PR::NEED	PR::NEED
Due Date: 2009-07- Login Date: 2009-07-	Analysis	1613	1613	1613	1613	1613	1613	1613	1613	1613	1613	1613	1613	1613
	Report	Full												
	LOC	W2												
8	Matrix	Soil	Water	Water	Soil									
1-58	Date Due	2009-07-15	2009-07-15	2009-07-15	2009-07-15	2009-07-15	2009-07-15	2009-07-15	2009-07-15	2009-07-15	2009-07-15	2009-07-15	2009-07-15	2009-07-15
<b>G</b> 34	Date Received	2009-07-02	2009-07-02	2009-07-02	2009-07-02	2009-07-02	2009-07-02	2009-07-02	2009-07-02	2009-07-02	2009-07-02	2009-07-02	2009-07-02	2009-06-03
ig Labs PO:	Date Collected	2009-06-30 12:13:00	2009-06-30 10:33:00	2009-06-30 10:33:00	2009-06-30 11:23:00	2009-06-30 11:00:00	2009-06-30 11:49:00	2009-06-30 09:20:00	2009-06-30 09:45:00	2009-06-30 09:50:00	2009-06-30 10:00:00	2009-06-30 12:30:00	2009-06-30 12:40:00	2009-06-01 08:09:00
8 ineerin	PRI	RUSH												
): SSFL 23266 ): General Eng	Cust Sample ID	B1BS0091S001	B1BS0092D001	B1BS0092S001	B1BS0093S001	B1BS0094S001	B1BS0096S001	HZBS0127S001	HZBS0128S001	HZBS0126S001	HZBS0125S001	FBOW2234	EBOW2219	HZBS0109S001
Cust Proj IC Client Name	Sample ID	G341-588-1 A	G341-588-2 A	G341-588-3 A	G341-588-4 A	G341-588-5 A	G341-588-6 A	G341-588-7 A	G341-588-8 A	G341-588-9 A	G341-588-10 A	G341-588-11 A	G341-588-12 A	G341-588-13 A

SGS Environmental Services, Inc.

# Sample Receipt Checklist (SRC)

SGS Environmetal Services Inc.

Client: General Engineering Labs		Lab Proj. ID:	G341-588
Client Proj. ID: SSFL 232668			
1. <u>X</u> 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,	Notes:		
preservation type, sample type (method/matrix)) Acceptable documentation (but, incomplete) Unacceptable documentation			· · · · · · · · · · · · · · · · · · ·
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	Notes:		
Samples Broken / Leaking VOA Vials Checked for Air Bubbles			
5. <u>X</u> Chilled on Receipt* Actual Temp.(s) in °C: <u>Ambient on Receipt</u> Walk-in on Ice; Coming down to temp. <u>Received out of temperature protocol</u>	5.9 Notes:		
6. <u>X</u> 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. <u>X</u> No Discrepancies Noted Discrepancies Noted	Notes:	17 A	
Comments:			
			4

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

DC27.091503.3

Inspected and Logged in by: UUU Date / Time: Wed-7/15/09 16:42

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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	Sample
<b>Identification</b>	<b>Description</b>
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.

Vacqueline a Judill Jacqueline Trudell

Project Manager



### 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</li>
- 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</p>
- 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.



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

List of current GEL Certifications as of 16 July 2009
# 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

ISJuly 2009 Date

#### DC138.033007.7

Page 1

5500 Business Dr., Wilmington, NC 28405 t (910) 350-1903 f (910) 350-1557 www.us.sgs.com



# SGS

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

#### For Method: 1613

- The submitted samples were accepted into the lab on June 3<sup>rd</sup>, 2009 and July 2<sup>nd</sup>, 2009 • and extracted on July  $7^{\text{th}}$ , 2009 by method 3540C and July  $8^{\text{th}}$ , 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 <sup>13</sup>C<sub>12</sub>-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.

Ingrin 7-15-09 Date Tamara Morgan

Data Validation

# 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

SGS

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

- 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<sup>X</sup>, 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

1

#### 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  $4^{\circ}C \pm 2^{\circ}C$ . 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.

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.
Ν	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

#### Data Qualifier Reference Table

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
Т- 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.

Qualifier	Organics	Inorganics
Н	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
С	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.
В	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.
Е	Not applicable.	Duplicates showed poor agreement.
Ι	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
Μ	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
Т	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**

#### 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.
Ρ	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*  , *	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<sup>X</sup>* 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 5x 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<sup>X</sup>* 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<sup>X</sup>* 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 laboratoryestablished 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<sup>X</sup>* 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 laboratoryestablished 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  $MEC^{\times}$  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 5x 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 laboratoryestablished 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

Sample Name	B1BS0091S001 Matrix Type: Soil						<b>Result Type:</b> Primary Result			
Lab Sample Name:	G341-588-1B	Sample	Date: 6	/30/2009 1	2:13:00 Pl	м	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	B PG/G					
1,2,3,4,7,8,9-HpCDF	55673897	0.429	4.29	0.314	PG/G	А	J			
1,2,3,4,7,8-HxCDD	39227286	0.631	4.29	0.209	PG/G	А	J			
,2,3,4,7,8-HxCDF	70648269	0.794	4.29	0.136	6 PG/G	А	J			
,2,3,6,7,8-HxCDD	57653857	4.77	4.29	0.213	PG/G					
,2,3,6,7,8-HxCDF	57117449	0.437	4.29	0.136	6 PG/G	А	J			
1,2,3,7,8,9-HxCDD	19408743	1.89	4.29	0.213	PG/G	А	J			
,2,3,7,8,9-HxCDF	72918219	0.477	4.29	0.179	PG/G	А	J			
,2,3,7,8-PeCDD	40321764	0.211	4.29	0.211	PG/G	EMPC	UJ	*III		
,2,3,7,8-PeCDF	57117416	0.295	4.29	0.0761	PG/G	А	J			
2,3,4,6,7,8-HxCDF	60851345	0.631	4.29	0.151	PG/G	А	J			
2,3,4,7,8-PeCDF	57117314	0.434	4.29	0.0825	PG/G	А	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	B PG/G					
DCDF	39001020	13.4	8.57	0.331	PG/G					
Fotal HpCDDs	37871004	790	4.29	0.474	PG/G					
Total HpCDFs	38998753	31.7	4.29	0.243	PG/G					
Fotal HxCDDs	34465468	34.4	4.29	0.212	PG/G					
Fotal HxCDFs	55684941	21.3	4.29	0.149	PG/G					
Fotal 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		
Fotal TCDDs	41903575	0.224	0.857	0.224	PG/G	QU	UJ	*III		
Fotal TCDFs	30402143	0.952	0.857	0.161	PG/G					

Sample Name	B1BS0092D001 Matrix Type: Soil						Result Type: Primary Result			
Lab Sample Name:	G341-588-2B	Sample Date: 6/30/2009 10:33:00 A				м	M 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	А	J			
1,2,3,4,7,8-HxCDD	39227286	4.26	4.28	0.302	PG/G	А	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	А	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	А	J			
1,2,3,7,8-PeCDD	40321764	1.86	4.28	0.216	PG/G	А	J			
1,2,3,7,8-PeCDF	57117416	2.04	4.28	0.189	PG/G	А	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	А	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	А	J	*III		
OCDD	3268879	30300	42.8	1.74	PG/G	Е	J	*Ш		
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					

Sample Name	B1BS0092S001 Matrix Type: Soil					Res	Result Type: Primary Result			
Lab Sample Name:	G341-588-3B	Sample	Sample Date: 6/30/2009 10:33:00 Al				M Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL I	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	А	J			
1,2,3,4,7,8-HxCDD	39227286	3.54	4.16	0.277	PG/G	А	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	А	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	А	J			
1,2,3,7,8-PeCDD	40321764	1.62	4.16	0.132	PG/G	А	J			
1,2,3,7,8-PeCDF	57117416	1.36	4.16	0.0883	PG/G	А	J			
2,3,4,6,7,8-HxCDF	60851345	3.36	4.16	0.4	PG/G	А	J			
2,3,4,7,8-PeCDF	57117314	2.18	4.16	0.0969	PG/G	А	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	А	J	*III		
OCDD	3268879	20400	41.6	1.56	PG/G	Е	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					

Sample Name	B1BS0093S001	Res	Result Type: Primary Result							
Lab Sample Name:	G341-588-4B	Sample	Sample Date: 6/30/2009 11:23:00 At				M Validation Level: V			
Analyte	CAS No	Result Value	RL		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	А	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	А	J			
1,2,3,6,7,8-HxCDF	57117449	0.19	4.23	0.129	PG/G	А	J			
1,2,3,7,8,9-HxCDD	19408743	0.898	4.23	0.197	PG/G	А	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	А	J			
2,3,4,7,8-PeCDF	57117314	0.256	4.23	0.107	PG/G	А	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	А	J			
Total HpCDDs	37871004	31.7	4.23	0.324	PG/G					
Total HpCDFs	38998753	2.4	4.23	0.208	PG/G	А	J			
Total HxCDDs	34465468	3.55	4.23	0.196	PG/G	А	J			
Total HxCDFs	55684941	2	4.23	0.137	PG/G	А	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	А	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	А	J			

Sample Name	EBQW2219		Res	ult Type: Pr	imary Result			
Lab Sample Name:	G341-588-12B	Sample	<b>Date:</b> 6	/30/2009 12	м	Validation Level: V		
Analyte	CAS No	Result Value	RL		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	

Sample Name	FBQW2234		Matrix Type: Water					Result Type: Primary Result		
Lab Sample Name:	G341-588-11B	Sample	Date: 6	/30/2009 12	м	Validation Level: V				
Analyte	CAS No	Result Value	RL	MDL 1	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			

Sample Name	HZBS0109S001		Matrix '	Гуре: So	il	<b>Result Type:</b> Primary Result				
Lab Sample Name:	G341-588-13B	Sample	Sample Date: 6/1/2009 8:09:00 AM				Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL I	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	А	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	А	J			
1,2,3,4,7,8-HxCDF	70648269	0.187	4.36	0.129	PG/G	А	J			
1,2,3,6,7,8-HxCDD	57653857	1.17	4.36	0.167	PG/G	А	J			
1,2,3,6,7,8-HxCDF	57117449	0.148	4.36	0.125	PG/G	А	J			
1,2,3,7,8,9-HxCDD	19408743	0.921	4.36	0.166	PG/G	А	J			
1,2,3,7,8,9-HxCDF	72918219	0.213	4.36	0.149	PG/G	А	J			
1,2,3,7,8-PeCDD	40321764	0.279	4.36	0.0956	PG/G	А	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	А	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	А	J	*III		
OCDD	3268879	345	8.72	0.353	PG/G					
OCDF	39001020	5.47	8.72	0.315	PG/G	А	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	А	J			
Total PeCDDs	36088229	0.583	4.36	0.201	PG/G	А	J			
Total PeCDFs	30402154	0.616	4.36	0.1	PG/G	А	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	А	J			

Sample Name	HZBS0127S001		Res	<b>Result Type:</b> Primary Result						
Lab Sample Name:	G341-588-7B	Sample	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	А	J			
1,2,3,4,7,8-HxCDD	39227286	2.92	4.21	0.166	PG/G	А	J			
1,2,3,4,7,8-HxCDF	70648269	2.52	4.21	0.253	PG/G	А	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	А	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	А	J			
1,2,3,7,8-PeCDD	40321764	1.52	4.21	0.139	PG/G	А	J			
1,2,3,7,8-PeCDF	57117416	0.851	4.21	0.195	PG/G	А	J			
2,3,4,6,7,8-HxCDF	60851345	2.36	4.21	0.311	PG/G	А	J			
2,3,4,7,8-PeCDF	57117314	1.53	4.21	0.216	PG/G	А	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	А	J	*III		
OCDD	3268879	3800	8.42	0.286	PG/G	Е	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					

Sample Name	HZBS0128S001		Res	Result Type: Primary Result   Validation Level: V				
Lab Sample Name:	G341-588-8B	Sample	Sample Date: 6/30/2009 9:45:00 AM					
Analyte	CAS No	Result Value	RL		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	А	J	
1,2,3,4,7,8-HxCDD	39227286	2.38	4.2	0.19	PG/G	А	J	
1,2,3,4,7,8-HxCDF	70648269	1.18	4.2	0.129	PG/G	А	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	А	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	А	J	
1,2,3,7,8-PeCDD	40321764	1.88	4.2	0.256	PG/G	А	J	
1,2,3,7,8-PeCDF	57117416	0.462	4.2	0.244	PG/G	А	J	
2,3,4,6,7,8-HxCDF	60851345	0.917	4.2	0.14	PG/G	А	J	
2,3,4,7,8-PeCDF	57117314	0.697	4.2	0.285	PG/G	А	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	А	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			

Sample Name	FBQW2234		Matrix 7	Type: WATER	Res	ult Type: Pr	imary Result
Lab Sample Name:	232668011	Sample	Date: 6	/30/2009 12:30:00 PN	A 1	Validation Le	vel: 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 F				imary Result	
Lab Sample Name:	232668013	Sample	<b>Date:</b> 6	/3/2009 12:30:00 PM	v	Validation Le	vel: 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 Metho	od 7471A						
Sample Name	ILBS0251S002	Matrix Type: SOIL Result Type: Primary Res					imary Result
Lab Sample Name:	232668013	Sample	<b>Date:</b> 6	/3/2009 12:30:00 PM	v	Validation Le	vel: 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	В
Analysis Metho	od 8015B						
Sample Name	B1BS0080S002		Matrix '	Type: SOIL	Res	ult Type: Pr	imary Result
Lab Sample Name:	232668018	Sample	<b>Date:</b> 6	/3/2009 7:50:00 AM	v	Validation Le	vel: 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	В		
EFH (C8 - C11)	EFHD (C8-	3.44	3.44	1.13 mg/kg	U	U	

# Analysis Method 6020

Sample Name	ILBS0249S002		Matrix 7	<b>Гуре:</b> SC	DIL	Result Type: Primary Result			
Lab Sample Name:	232668019	Sample	Date: 6	/3/2009 1:03	5:00 PM	۷	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL I	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aroclor-1016	12674112	17.9	17.9	5.97	ug/kg	U	UJ	Н	
Aroclor-1221	11104282	17.9	17.9	5.97	ug/kg	U	UJ	Н	
Aroclor-1232	11141165	17.9	17.9	5.97	ug/kg	U	UJ	Н	
Aroclor-1242	53469219	17.9	17.9	5.97	ug/kg	U	UJ	Н	
Aroclor-1248	12672296	17.9	17.9	5.97	ug/kg	U	UJ	Н	
Aroclor-1254	11097691	17.9	17.9	5.97	ug/kg	U	UJ	Н	
Aroclor-1260	11096825	17.9	17.9	5.97	ug/kg	U	UJ	Н	
Sample Name	ILBS0250S001		Matrix 7	<b>Гуре:</b> SC	DIL	Res	ult Type: Pr	imary Result	
Lab Sample Name:	232668020	Sample	Date: 6	/3/2009 12:4	45:00 PM	· · ·	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL I	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aroclor-1016	12674112	3.65	3.65	1.22	ug/kg	U	UJ	Н	
Aroclor-1221	11104282	3.65	3.65	1.22	ug/kg	U	UJ	Н	
Aroclor-1232	11141165	3.65	3.65	1.22	ug/kg	U	UJ	Н	
Aroclor-1242	53469219	3.65	3.65	1.22	ug/kg	U	UJ	Н	
Aroclor-1248	12672296	3.65	3.65	1.22	ug/kg	U	UJ	Н	
Aroclor-1254	11097691	3.65	3.65	1.22	ug/kg	U	UJ	Н	
Aroclor-1260	11096825	3.65	3.65	1.22	ug/kg	U	UJ	Н	
Sample Name	ILBS0251S001		Matrix 7	<b>Гуре:</b> SC	DIL	Rest	ult Type: Pr	imary Result	
Lab Sample Name:	232668021	Sample	Date: 6	/3/2009 12:2	20:00 PM	· · ·	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL I	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aroclor-1016	12674112	3.48	3.48	1.16	ug/kg	U	UJ	Н	
Aroclor-1221	11104282	3.48	3.48	1.16	ug/kg	U	UJ	Н	
Aroclor-1232	11141165	3.48	3.48	1.16	ug/kg	U	UJ	Н	
Aroclor-1242	53469219	3.48	3.48	1.16	ug/kg	U	UJ	Н	
Aroclor-1248	12672296	3.48	3.48	1.16	ug/kg	U	UJ	Н	
Aroclor-1254	11097691	3.48	3.48	1.16	ug/kg	U	UJ	Н	
Aroclor-1260	11096825	3.48	3.48	1.16	ug/kg	U	UJ	Н	

# Analysis Method 8082

Sample Name	ILBS0253S001		Matrix '	Fype: SO	IL	Rest	Result Type: Primary Result		
Lab Sample Name:	232668022	Sample Date: 6/3/2009 10:55:00 AM			ı v	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL R U	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aroclor-1016	12674112	18.5	18.5	6.17	ug/kg	U	UJ	Н	
Aroclor-1221	11104282	18.5	18.5	6.17	ug/kg	U	UJ	Н	
Aroclor-1232	11141165	18.5	18.5	6.17	ug/kg	U	UJ	Н	
Aroclor-1242	53469219	18.5	18.5	6.17	ug/kg	U	UJ	Н	
Aroclor-1248	12672296	18.5	18.5	6.17	ug/kg	U	UJ	Н	
Aroclor-1254	11097691	18.5	18.5	6.17	ug/kg	U	UJ	Н	
Aroclor-1260	11096825	18.5	18.5	6.17	ug/kg	U	UJ	Н	

# Analysis Method 8082

Sample Name	ENBS0082S001		Result Type: Primary Result					
Lab Sample Name:	232668015	Sample	Date: 6	/2/2009 9:4	7:00 AM	v	Validation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL I	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methylnaphthalene	90120	17	17	5.09	ug/kg	Uh	UJ	н
2-Methylnaphthalene	91576	17	17	3.39	ug/kg	Uh	UJ	Н
Acenaphthene	83329	17	17	5.67	ug/kg	Uh	UJ	Н
Acenaphthylene	208968	17	17	5.09	ug/kg	Uh	UJ	Н
Anthracene	120127	17	17	3.39	ug/kg	Uh	UJ	Н
Benzo(a)anthracene	56553	17	17	5.09	ug/kg	Uh	UJ	Н
Benzo(a)pyrene	50328	17	17	5.09	ug/kg	Uh	UJ	Н
Benzo(b)fluoranthene	205992	17	17	5.09	ug/kg	Uh	UJ	Н
Benzo(ghi)perylene	191242	17	17	5.09	ug/kg	Uh	UJ	Н
Benzo(k)fluoranthene	207089	17	17	5.09	ug/kg	Uh	UJ	Н
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	Н
Chrysene	218019	17	17	5.09	ug/kg	Uh	UJ	Н
Dibenzo(a,h)anthracene	53703	17	17	5.09	ug/kg	Uh	UJ	Н
Diethylphthalate	84662	17	17	5.09	ug/kg	Uh	UJ	Н
Dimethylphthalate	131113	17	17	5.09	ug/kg	Uh	UJ	Н
Di-n-butylphthalate	84742	17	17	5.09	ug/kg	Uh	UJ	Н
Di-n-octyl-phthalate	117840	17	17	5.09	ug/kg	Uh	UJ	Н
Fluoranthene	206440	17	17	5.09	ug/kg	Uh	UJ	Н
Fluorene	86737	17	17	5.09	ug/kg	Uh	UJ	Н
Indeno(1,2,3-cd)pyrene	193395	17	17	5.09	ug/kg	Uh	UJ	Н
Naphthalene	91203	17	17	5.09	ug/kg	Uh	UJ	Н
n-Nitrosodimethylamine	62759	17	17	3.39	ug/kg	Uh	UJ	Н
Phenanthrene	85018	17	17	5.09	ug/kg	Uh	UJ	н
Pyrene	129000	17	17	5.33	ug/kg	Uh	UJ	Н

# Analysis Method 8270C SIM

Sample Name	ENBS0083S001		Matrix 7	<b>Fype:</b> SC	DIL	Result Type: Primary Result			
Lab Sample Name:	232668016	Sample	Date: 6	/2/2009 10:	05:00 AN	1 Validation Level: V			
Analyte	CAS No	Result Value	RL		Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1-Methylnaphthalene	90120	16.9	16.9	5.08	ug/kg	Uh	UJ	Н	
2-Methylnaphthalene	91576	16.9	16.9	3.38	ug/kg	Uh	UJ	Н	
Acenaphthene	83329	16.9	16.9	5.65	ug/kg	Uh	UJ	Н	
Acenaphthylene	208968	16.9	16.9	5.08	ug/kg	Uh	UJ	Н	
Anthracene	120127	16.9	16.9	3.38	ug/kg	Uh	UJ	Н	
Benzo(a)anthracene	56553	5.08	16.9	5.08	ug/kg	Jh	J	Н	
Benzo(a)pyrene	50328	16.9	16.9	5.08	ug/kg	Uh	UJ	Н	
Benzo(b)fluoranthene	205992	8.88	16.9	5.08	ug/kg	Jh	J	Н	
Benzo(ghi)perylene	191242	5.19	16.9	5.08	ug/kg	Jh	J	Н	
Benzo(k)fluoranthene	207089	16.9	16.9	5.08	ug/kg	Uh	UJ	Н	
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	Н	
Chrysene	218019	5.91	16.9	5.08	ug/kg	Jh	J	Н	
Dibenzo(a,h)anthracene	53703	16.9	16.9	5.08	ug/kg	Uh	UJ	Н	
Diethylphthalate	84662	16.9	16.9	5.08	ug/kg	Uh	UJ	Н	
Dimethylphthalate	131113	16.9	16.9	5.08	ug/kg	Uh	UJ	Н	
Di-n-butylphthalate	84742	6.7	16.9	5.08	ug/kg	Jh	J	Н	
Di-n-octyl-phthalate	117840	16.9	16.9	5.08	ug/kg	Uh	UJ	Н	
Fluoranthene	206440	5.64	16.9	5.08	ug/kg	Jh	J	н	
Fluorene	86737	16.9	16.9	5.08	ug/kg	Uh	UJ	Н	
Indeno(1,2,3-cd)pyrene	193395	16.9	16.9	5.08	ug/kg	Uh	UJ	Н	
Naphthalene	91203	16.9	16.9	5.08	ug/kg	Uh	UJ	Н	
n-Nitrosodimethylamine	62759	16.9	16.9	3.38	ug/kg	Uh	UJ	Н	
Phenanthrene	85018	16.9	16.9	5.08	ug/kg	Uh	UJ	Н	
Pyrene	129000	6.63	16.9	5.31	ug/kg	Jh	J	Н	

# Analysis Method 8270C SIM

Sample Name	ENBS0084S001		Matrix '	<b>Fype:</b> SC	Res	<b>Result Type:</b> Primary Result				
Lab Sample Name:	232668017	Sample	Date: 6	/2/2009 10:	17:00 AM	1 1	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	Н		
2-Methylnaphthalene	91576	17.1	17.1	3.42	ug/kg	Uh	UJ	Н		
Acenaphthene	83329	17.1	17.1	5.72	ug/kg	Uh	UJ	Н		
Acenaphthylene	208968	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Anthracene	120127	17.1	17.1	3.42	ug/kg	Uh	UJ	Н		
Benzo(a)anthracene	56553	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Benzo(a)pyrene	50328	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Benzo(b)fluoranthene	205992	7.9	17.1	5.14	ug/kg	Jh	J	Н		
Benzo(ghi)perylene	191242	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Benzo(k)fluoranthene	207089	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
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	Н		
Chrysene	218019	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Dibenzo(a,h)anthracene	53703	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Diethylphthalate	84662	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Dimethylphthalate	131113	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Di-n-butylphthalate	84742	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Di-n-octyl-phthalate	117840	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Fluoranthene	206440	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Fluorene	86737	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Indeno(1,2,3-cd)pyrene	193395	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Naphthalene	91203	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
n-Nitrosodimethylamine	62759	17.1	17.1	3.42	ug/kg	Uh	UJ	Н		
Phenanthrene	85018	17.1	17.1	5.14	ug/kg	Uh	UJ	Н		
Pyrene	129000	5.48	17.1	5.37	ug/kg	Jh	J	Н		

# Analysis Method 8270C SIM