# Chain of Custody and Supporting Documentation

6			CHAIN OF	CHAIN OF CUSTODY RECORD	Y REC	ORD			COC #:		MWHMB20090925_00
							33.	237937			Page: 1 of 1
Customer	Customer Information	<b>Project Information</b>	ation		<b>Project Information</b>	Inform	tion				
Site:	SSFL	Client Name:	Boeing		Collector:		M. Baumgardner	ner		Boeing PM:	
Company: MWH	MWH	Sampling Event:	ISRA Sampling, August 2009	August 2009	Contact #:	¥					
Report to:	Report to: Sarah Von Raesfeld	Project Number:	1891614.05462					Requested Analyses	nalyses		Instructions/TAT
Address:	2121 N. California Blvd	Project Manager:	: Alex Fischl								Legend:
	Suite 600	PM Phone #:	(925) 627-4627								Numerical values for analyses equate to turn
	Walnut Creek	Field Contact:	Benjamin Stewart								around time in days
	CA	Field Contact #:	(818) 266-1378								H - Hold
	94596	Lab Name:	GEL Laboratories, LLC	, LLC							En - Exilacitexitude &
Email:	sarah.vonraesfeld@mwhglobal.c Lab Contact:	I.c Lab Contact:	Jackie Trudell			Ме					
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road	ad		tals 6					Note: Values in the cells
			Charleston, SC 29407	9407		020					bellow are Tum Around Times.
		Lab Phone:	(843) 769-7388			Soil					
Sample Name	ame	Matrix	Date Time	No. of Containers	B - Soil ure Soil	Copper					Comments
HZET0710S001		Soil	9/25/2009 7:15	2	5 5	5					
. HZET0717S001		Soil	9/25/2009 7:25	2	5 5	5					

Time: Date: Geotracker EDF 4. Received by: Company: Time: Date: 3. Relinquished by: Company: COMMENTS: SAMPLE YOLUME FOR DIONING ANALYSIS SHIPPED DIRECTLY TO CFA, Time: 0*8* 40 6-96-99 SAMPLE VOLUME FOR METALS ANALYSIS SHIPPED TO GEL . Date: Company: 2. Received by: Mar he 60-52-6 Time: 14: 5식 Date: 6 Allon 3. P. 1. Relinquished by: Company: MWH

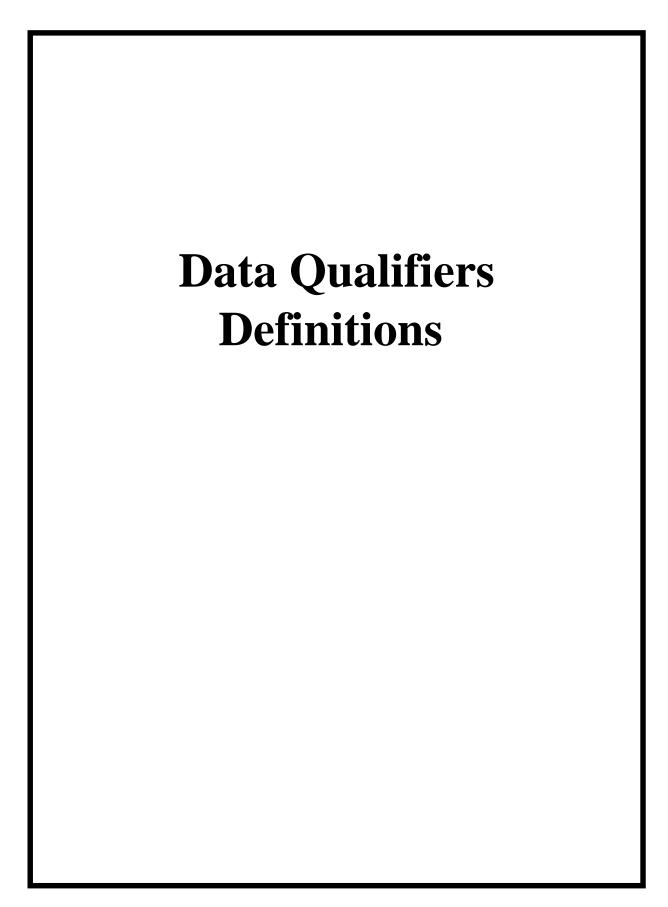
# GEL Laboratories LLC SAMPLE RECEIPT & REVIEW FORM

Client: SSFL/MWH SDG/ARCOC/Work Order: 237938							
Rece	eived By: MK				SDG/ARCOC/Work Order: 23438		
	me	8		*If (	Date Received: $9 - 26 - 09$ Counts > x2 area background on samples not marked "radioactive", contact		
	ected Hazard Information	Yes	ž	the.	Radiation Safety Group of further investigation.		
	/Samples marked as radioactive?		-	Max	kimum Counts Observed*: Crr 20		
_	sified Radioactive II or III by RSO?		1				
	/Samples marked containing PCBs?		1				
_	bed as a DOT Hazardous?		Ľ	Haz	ard Class Shipped: UN#:		
Sam	bles identified as Foreign Soil?		1				
	Sample Receipt Criteria	Yes	NA	Ŷ	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: (cce bags blue ice dry ice none other (describe) 3 <sup>c</sup>		
3	Chain of custody documents included with shipment?	$\checkmark$					
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?		/		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?			$\checkmark$	(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?	$\checkmark$			Sample ID's and containers affected:		
10	Date & time on COC match date & time on bottles?	$\checkmark$			Sample ID's affected:		
11	Number of containers received match number indicated on COC?	$\checkmark$			Sample ID's affected:		
12	COC form is properly signed in relinquished/received sections?	$\checkmark$					
Comn	nents:						
	¥)	X	井		7969 7787 7140		
	DM (or DMA) reviews Triting	 ]c			Jurc Date 01/26/05		
	PM (or PMA) review: Initia	13		1	<u> </u>		
	5						

#### 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, August 2009	Start:	8/24/2009	End:	9/30/2009
LTO DATE:			LTC	NUMBER:		
Consultant Name:		MWH	Contract Laboratory:		GEL	
Address:	2121 N	I. California Blvd. Ste. 600	Address:	20	040 Savage R	Rd.
	Wa	alnut Creek, CA 94596		Cha	rleston, SC 2	9407
Contact Name:		Sarah Von Raesfeld	Lab Contact Name:		Jackie Trudel	<u> </u>
Phone Number:		925-627-4654	Phone Number:		843-769-7388	
Fax Number:		925-627-4501	Fax Number:		843-766-1178	
E-mail Address:	<u>Sarah.</u>	VonRaesfeld@mwhglobal.com	E-mail Address:	jacque	line.trudell@g	gel.com
Date Required:		SAMPLE (	CONTAINER ORDER FORM Requested Analyses:	(Sr	ecify # of Samp	
Date Required.				Water	Soil	Contingent
			Dioxins (1613B)	15	124	0
Date Sample Pickup:			EPA 8015M (DRO)			
			EPA 8015M (JET FUEL)			
Ship Containers To:			EPA 8015M (CC)			
Project Site		(enter "X")	TCE (8260B)	5	12	0
Consultant Office		(enter "X")	EPA 8270C SIM (SVOC)			
Other Location (specify in			EPA 8310 (PAH)			
comments)		(enter "X")	EPA 8082 (PCB)	3	5	0
Container Information	_		Nickel (6020)	5	10	0
			Chromium (6020)	<u>5</u> 5	10	0
Trip Blank (VOA only) Temp Blank (VOA Only)	No No	_(Yes/No) (Yes/No)	Silver (6020) Cadmium (6020)	5 10	10 35	0
DI Water Required?	No	_(Yes/No) (Yes/No)	Arsenic (6020)	5	10	0
MS/MSD Extra Bottles?	No	_(Yes/No)	% Moisture (D2216)	0	170	0
MO/MOD EXIL DOLLES!	110	_(////////	Lead (6020)	10	65	0
Sample Matrix:			Copper (6020)	10	75	0
Soil	х	(select all applicable)	Zinc (6020)	5	20	0
Water	Х	(select all applicable)	Mercury by 7471A/7470A	5	25	0
Vapor		(select all applicable)				
Est. Total # of Samples:	175	Est. Total # of EDD	s 40			
		LABORATORY	REPORTING REQUIREMENTS			
Project TAT:			Laboratory Results/Repo	rts Delivera		
Normal:	Χ	(10 Business days)	Draft Results Fax?:		(Yes/No)	
RUSH:	5	(Specify- 24 / 48 / 72HRS)	Draft Results E-mail?:	Yes	(Yes/No)	
Other :		(Specify # of Days)	Specify Fax/E-mail Contact			
Report Due Date:				Sarah.VonRae	sfeld@mwhgloba	al.com
			Send Original Reports To:			
Special Reporting Req	luireme	ents:	Project Site		(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 II	NSTRUCTIONS/LTO NOTES			
		CONFIRMATIO	N OF TRANSMITTAL & RECEIPT	Γ		
LTO Sent By:			LTO Received By-			
-	Sarah Vo	on Raesfeld	Name:			
	09/02/09		– Date:			



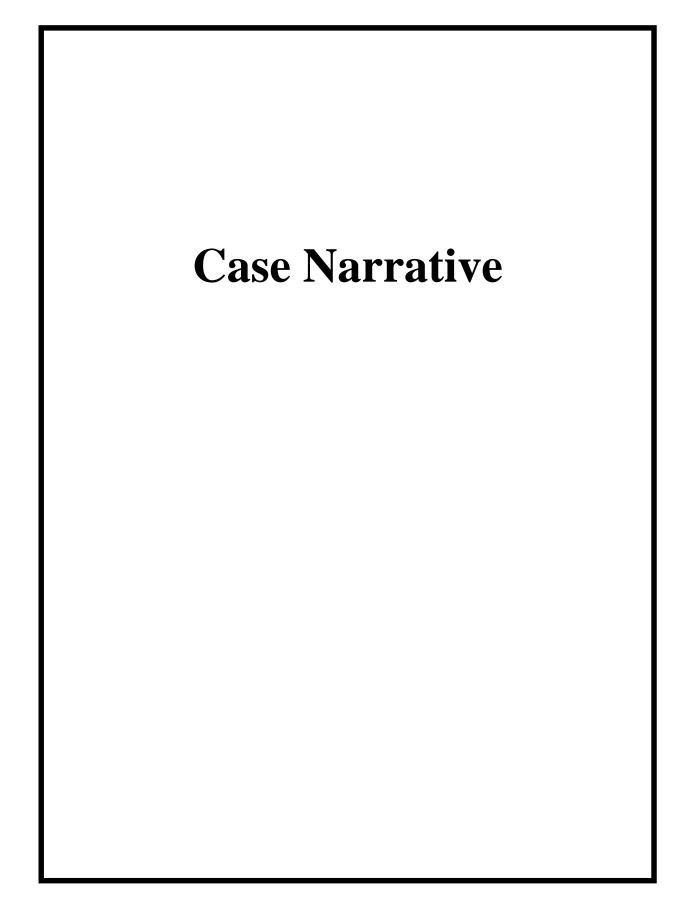
#### Data Review Qualifier Definitions

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.

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Case Narrative for Boeing - SSFL (MWH) Work Order: 237938 SDG: 237938

October 08, 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 September 26, 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>
237938001	HZET0710S001
237938002	HZET0717S001

#### **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.

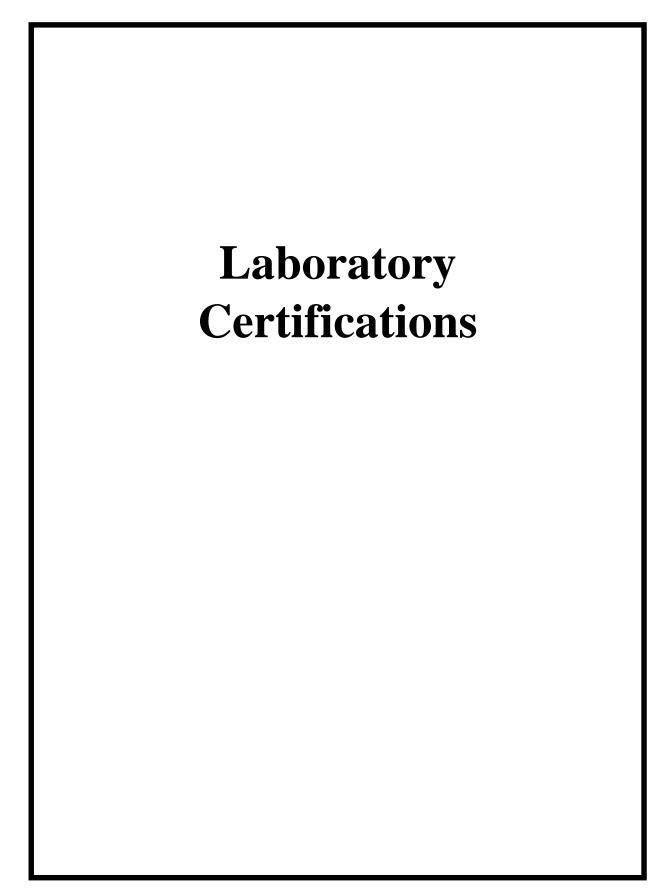
#### **Data Package:**

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: Metals, Percent Moisture and Dioxins (Cape Fear Analytical).

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.

Bacqueline a Judel

Jacqueline Trudell Percent Moisture



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 02 October 2009



## DATA VALIDATION REPORT

Boeing SSFL RFI ISRA

SAMPLE DELIVERY GROUP: 237938

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:	237938
Project Manager:	Dixie Hambrick
Matrix:	soil
QC Level:	V
No. of Samples:	2
No. of Reanalyses/Dilutions:	0
Laboratory:	GEL

#### Table 1. Sample Identification

Sample Name	Sample Name Lab Sample Name		Matrix	Collection	Method
HZET0710S001	237938001	1075001	SOIL	9/25/2009 7:15:00 AM	1613B, 6020
HZET0717S001	237938002	1075002	SOIL	9/25/2009 7:25:00 AM	1613B, 6020

#### II. Sample Management

No anomalies were observed regarding sample management. The samples in this SDG were received at the laboratories 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.

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 or PCB congeners.	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 1613—Dioxin/Furans

Reviewed By: P. Meeks Date Reviewed: October 13, 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 Dioxins and Furans (DVP-19, Rev. 0), USEPA Method 1613, and the National Functional Guidelines Chlorinated Dioxin/Furan Data Review (08/02).

- 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: The soil method blank had detects for all but five target compounds. Individual isomers detected below the reporting limit or at concentrations less than 5× the method blank concentration were qualified as nondetected, "U," at the reporting limit if detected below the reporting limit or at the level of contamination if detected above. All totals, except TCDF and TCDD, were qualified as estimated, "J," due to detects in the soil method blank.
- Blank Spikes and Laboratory Control Samples: Recoveries were within the acceptance criteria listed in Table 6 of Method 1613 and the 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: The samples in this SDG had no identified field blank or equipment rinsate.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.
- 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. The laboratory

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performed and reported confirmation analyses for the TCDF detects. As the confirmation analyses resulted in results similar to the original analyses, the reviewer rejected, "R," the confirmation analyses.

 Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. The laboratory calculated and reported compound-specific detection limits (EDLs). EMPCs were identified in the samples of this SDG and qualified with a "K" by the laboratory. Any EMPC was qualified as estimated, "UJ," in the samples of this SDG. EMPCs reported as totals were qualified as estimated, "J," as only a portion of the total was identified as an EMPC. Any detect below the laboratory lower calibration level was qualified as estimated, "J." Nondetects are valid to the estimated detection limit (EDL).

#### B. EPA METHOD 6020—Copper

Reviewed By: P. Meeks Date Reviewed: October 14, 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 Method 6020, and the National Functional Guidelines for Inorganic Data Review (7/02).

- Holding Times: The analytical holding time, six months for ICP-MS metals, was met.
- Tuning: Review is not applicable at a Level V validation.
- Calibration: Review is not applicable at a Level V validation.
- Blanks: Method blanks and CCBs had no detects.
- Interference Check Samples: Review is not applicable at a Level V validation.
- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratoryestablished QC limits.
- Laboratory Duplicates: A laboratory duplicate analysis was performed on HZET0710S001. The RPD was within the method-established control limit.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HZET0710S001. Both recoveries were above the control limit; therefore, copper detected in the samples was qualified as estimated, "J." The RPD was within method-established QC limits.

- Serial Dilution: A serial dilution analysis was performed on HZET0710S001. The %D exceeded the control limit; therefore, copper detected in the samples was qualified as estimated, "J."
- 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 results were reported from the laboratory's standard 2x 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: FBQW2239 (235913) was the field blank associated with the samples in this SDG. Copper was not detected in this sample. The samples in this SDG had no associated equipment rinsate.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.

## Validated Sample Result Forms: 237938

Analysis Method	d 1613B						
Sample Name	HZET0710S001	Ι	Matrix T	' <b>ype:</b> Soil	Res	ult Type: Pr	imary
Lab Sample Name:	1075001	Sample	9/2	25/2009 7:15:00 AM	ı v	Validation	V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Qualifier	Validation	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	4.56	2.28	0.392 pg/g			
1,2,3,4,6,7,8-HpCDF	67562394	2.28	2.28	2.28 pg/g	J	U	B, result changed from 0.854 and EDL from
1,2,3,4,7,8,9-HpCDF	55673897	0.409	2.28	0.409 pg/g	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.788	2.28	0.193 pg/g	J	J	
1,2,3,4,7,8-HxCDF	70648269	2.28	2.28	2.28 pg/g	ЈК	UJ	*III, result changed from 0.215 and
1,2,3,6,7,8-HxCDD	57653857	0.219	2.28	0.219 pg/g	U	U	
1,2,3,6,7,8-HxCDF	57117449	2.28	2.28	2.28 pg/g	J	U	B, result changed from 0.569 and EDL from
1,2,3,7,8,9-HxCDD	19408743	1.19	2.28	0.215 pg/g	J	J	
1,2,3,7,8,9-HxCDF	72918219	0.431	2.28	0.237 pg/g	J	J	
1,2,3,7,8-PeCDD	40321764	0.166	2.28	0.138 pg/g	J	J	
1,2,3,7,8-PeCDF	57117416	2.28	2.28	2.28 pg/g	JK	UJ	*III, result changed from 0.203 and
2,3,4,6,7,8-HxCDF	60851345	0.173	2.28	0.173 pg/g	U	U	
2,3,4,7,8-PeCDF	57117314	2.28	2.28	2.28 pg/g	ЈК	UJ	*III, result changed from 0.241 and
2,3,7,8-TCDD	1746016	0.145	0.456	0.145 pg/g	U	U	
2,3,7,8-TCDF	51207319	0.456	0.456	0.456 pg/g	J	U	B, result changed from 0.338 and EDL from
2,3,7,8-TCDF	51207319	0.407	0.456	0.0955 pg/g	J	R	D
OCDD	3268879	45.6	4.56	0.854 pg/g			
OCDF	39001020	2.7	4.56	0.891 pg/g	J	J	
Total HpCDD	37871004	13.2	2.28	0.392 pg/g		J	В
Total HpCDF	38998753	1.94	2.28	0.192 pg/g	J	J	В

### Analysis Method 1613B

Total HxCDD	34465468	2.99	2.28	0.193 pg/g		J	В
Total HxCDF	55684941	1.8	2.28	0.15 pg/g	J	J	B, *III
Total PeCDD	36088229	0.166	2.28	0.138 pg/g	J	J	В
Total PeCDF	30402154	0.911	2.28	0.0809 pg/g	J	J	B, *III
Total TCDD	41903575	0.161	0.456	0.145 pg/g	J	J	
Total TCDFs	55722275	0.635	0.456	0.212 pg/g	В		

Sample Name	HZET0717S001			Soil		ult Type: Pr	•
Lab Sample Name:	1075002	Sample	9/.	25/2009 7:25:00 AM		alidation	V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Qualifier	Validation	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	294	2.12	1.06 pg/g	-		
1,2,3,4,6,7,8-HpCDF	67562394	41.2	2.12	0.243 pg/g			
1,2,3,4,7,8,9-HpCDF	55673897	1.97	2.12	0.547 pg/g	J	J	
1,2,3,4,7,8-HxCDD	39227286	5.39	2.12	0.236 pg/g			
1,2,3,4,7,8-HxCDF	70648269	2.12	2.12	2.12 pg/g	JK	UJ	*III, result changed from 0.662 and
1,2,3,6,7,8-HxCDD	57653857	1.97	2.12	0.294 pg/g	J	J	
1,2,3,6,7,8-HxCDF	57117449	2.12	2.12	2.12 pg/g	1	U	B, result changed from 0.511 and EDL from
1,2,3,7,8,9-HxCDD	19408743	3.32	2.12	0.277 pg/g			
1,2,3,7,8,9-HxCDF	72918219	0.197	2.12	0.197 pg/g	U	U	
1,2,3,7,8-PeCDD	40321764	0.486	2.12	0.127 pg/g	J	J	
1,2,3,7,8-PeCDF	57117416	2.12	2.12	2.12 pg/g	JK	UJ	*III, result changed from 0.224 and
2,3,4,6,7,8-HxCDF	60851345	2.12	2.12	2.12 pg/g	JK	UJ	*III, result changed from 0.693 and
2,3,4,7,8-PeCDF	57117314	2.12	2.12	2.12 pg/g	JK	UJ	*III, result changed from 0.301 and
2,3,7,8-TCDD	1746016	0.16	0.425	0.16 pg/g	U	U	
2,3,7,8-TCDF	51207319	0.438	0.425	0.104 pg/g		R	D
2,3,7,8-TCDF	51207319	0.425	0.425	0.425 pg/g	J	U	B, result changed from 0.385 and EDL from
OCDD	3268879	3050	4.25	1.06 pg/g			
OCDF	39001020	201	4.25	0.557 pg/g			
Total HpCDD	37871004	905	2.12	1.06 pg/g		J	В
Total HpCDF	38998753	151	2.12	0.243 pg/g		J	В

### Analysis Method 1613B

## Analysis Method 1613B

Total HxCDD	34465468	44.2	2.12	0.236 pg/g		J	В
Total HxCDF	55684941	20.5	2.12	0.15 pg/g		J	B, *III
Total PeCDD	36088229	3.18	2.12	0.127 pg/g		J	В
Total PeCDF	30402154	3.56	2.12	0.0593 pg/g		J	B, *III
Total TCDD	41903575	0.742	0.425	0.16 pg/g			
Total TCDFs	55722275	1.63	0.425	0.209 pg/g	В		

Sample Name	HZET0710S001	I	Matrix T	ype: Soil	Rest	ult Type: Pr	imary
Lab Sample Name:	237938001	Sample	9/2	25/2009 7:15:00 AM	I I	alidation	V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Qualifier	Validation	Validation Notes
Copper	7440508	12.4	0.212	0.0699 mg/kg	EN	J	Q, A
Sample Name	HZET0717S001	I	Matrix T	ype: Soil	Rest	ult Type: Pr	imary
Lab Sample Name:	237938002	Sample	9/2	25/2009 7:25:00 AM	I I	alidation	V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Qualifier	Validation	Validation Notes
Copper	7440508	13	0.209	0.0691 mg/kg	EN	J	Q, A

## Analysis Method 6020

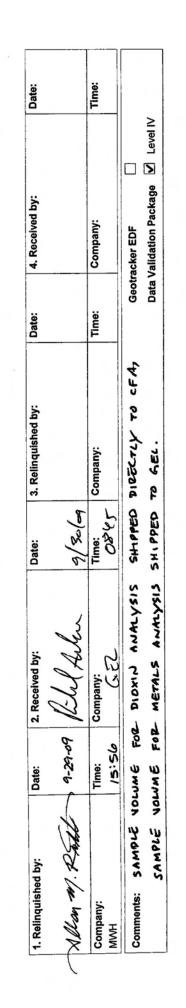
# Chain of Custody and Supporting Documentation

1																	Page: 1	of 2
Sustomer	Customer Information		P	<b>Project Information</b>	nation			Proje	ct Inf	Project Information	u							
Site:	SSFL		o	Client Name:	Boeing			Collector:	ctor:	A. Goldenberg	lenberg				Boeing PM:	g PM:		
Company:	HWH		S	Sampling Event:	+	ISRA Sampling, August 2009	gust 2009	Contact #:	ict #:									
Report to:	Sarah Von Raesfeld		4	Project Number:		1891614.05462					æ	Requested Analyses	ed Ana	lyses			Instructions/TAT	IAT
Address:	2121 N. California Blvd	-	4	Project Manager:	er: Alex Fischl	schl											Legend:	
	Suite 600		4	PM Phone #:	(925) 6	(925) 627-4627											Numerical values for analyses equate to turn	is for to turr
	Walnut Creek		-	Field Contact:	Benjan	Benjamin Stewart					_						around time in days	ays
	CA		u.	Field Contact #:	1	(818) 266-1378											H - Hold	o open
	94596		-	Lab Name:	CEL Li	GEL Laboratories, LLC	LLC			N	м				 N		Hold	
Email:	sarah.vonraesfeld@mwhglobal.c	whglot		Lab Contact:	Jackie Trudell	Trudell			-				_		letals			
	sean.leffler@mwhglobal.com	al.con		Lab Address:	2040 S	2040 Savage Road	-			-					s 747	_	Note: Values in	the ce
					Charle	Charleston, SC 29407	407								'1A S		bellow are 1 urn Around Times.	Aroun
			-	Lab Phone:	(843) 7	(843) 769-7388				-					Soil I			
Sample Name	ame			Matrix	Date	Time	No. of Containers	ure Soil	Arsenic B - Soil	admium	Copper	oil Lead	I Nickel	oil Zinc	Nercury		Comments	
HZET0104S001	3001		Soil		9/29/2009	13:20	2	2	2	5		5		5				
HZET0105S001	3001		Soil		9/29/2009	13:35	2	2	5	5		5		5				
HZET0230S001	3001		Soil		9/29/2009	10:25	-	5				5						
HZET0231S001	S001		Soil		9/29/2009	10:15	1	5				S			-			
HZET0232S001	S001		Soil		9/29/2009	10:05	1	5				ŝ		_		_		
HZET0233S001	S001		Soil		9/29/2009	11:10	1	5			_	2						
HZET0234S001	S001		Soil		9/29/2009	11:20	٢	5				S						
HZET0235S001	S001		Soil		9/29/2009	11:00	1	5				5				_		
HZET0236S001	S001		Soil		9/29/2009	11:30	1	5				5						
HZET0304S001	S001		Soil		9/29/2009	8:45	٣	5			ŝ	2						
1. Reling	1. Relinquished by:	Date:	Date: 9 -29 - 61	2. Received by:	by:		Date:	3. Rel	linquis	3. Relinquished by:			Date:		4. Received by:	d by:	Date:	ä
Nerth		1			Arriv		50/05/1						Time				Ĩ	
Company: MWH	ż	Time: 15:51	Time: 15:56	Company:	2		Time: उद्देर्भुष्ट्र	Company:	pany:						company:			
Comments.	CAMPLE	NOLUME	EOP	DIOXIN	ANALYSIS		SHIPPED DIS	× 2232810		10 CF	CFA,			Geotra	Geotracker EDF			
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2														Page:	je: 2 of 2
Customer	Customer Information	Project Information	ation			<b>Project Information</b>	Inform	ation							
Site:	SSFL	Client Name:	Boeing			Collector:		A. Goldenberg	erg				Boeing PM:		
Company: MWH	HWM	Sampling Event:	-	ISRA Sampling, August 2009	ust 2009	Contact #:	#								
Report to:	Report to: Sarah Von Raesfeld	Project Number:	r: 1891614.05462	05462					Requ	lested	<b>Requested Analyses</b>	9S		Insti	Instructions/TAT
Address:	2121 N. California Blvd	Project Manager:	er: Alex Fischl	F					_					Legend:	nd:
	Suite 600	PM Phone #:	(925) 627-4627	-4627			_		_					Num	Numerical values for analyses equate to turn
	Walnut Creek	Field Contact:	Benjamin Stewart	Stewart		_			-					arou	around time in days
	CA	Field Contact #:	: (818) 266-1378	-1378										÷	lold
	94596	Lab Name:	GEL Lab	<b>GEL Laboratories, LLC</b>	гс			-						- Hold	En - Extracvextrude & Hold
Email:	sarah.vonraesfeld@mwhglobal.c Lab Contact:	I.c Lab Contact:	Jackie Trudell	udell		1	Me		Me						
	sean.leffler@mwhglobal.com	Lab Address:	2040 Sav	2040 Savage Road		-	tals 6		tals 6					Note	Note: Values in the cells
			Charlesto	Charleston, SC 29407	07		020		020					Times.	bellow are Turn Around Times.
		Lab Phone:	(843) 769-7388	9-7388			Soil A		Soil (						
Sample Name	ame	Matrix	Date	Time	No. of Containers	B - Soil Ire Soil	Arsenic	omium dmium	Copper	Nickel il Lead	I Silver	lercury pil Zinc		Con	Comments
<ul> <li>HZET0305S001</li> </ul>		Soil	9/29/2009	8:30	1	5			5	5					
. HZET0508S001		Soil	9/29/2009	00:6	1	5	5 5	5 5	5	5	5	5			
<ul> <li>HZET0808S001</li> </ul>		Soil	9/29/2009	8:00	2	5 5									



FF0867

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GEL Laboratories LLC

### SAMPLE RECEIPT & REVIEW FORM

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SFL d By: $R_{12}$ $M_{12}$ $M_{12}$ ed Hazard Information imples marked as radioactive? ed Radioactive II or III by RSO? imples marked containing PCBs? as a DOT Hazardous? identified as Foreign Soil? Sample Receipt Criteria hipping containers received intact and ealed? amples requiring cold preservation rithin $0 \le 6$ deg. C?	Ves Yes	NA V C C C NO	the H Max	SDG/ARCOC/Work Order:       238077         Date Received:       9/3-/64         Counts > x2 area background on samples not marked "radioactive", contact         Radiation Safety Group of further investigation.         timum Counts Observed*:       40 cpm         ard Class Shipped:       UN#:
ted Hazard Information imples marked as radioactive? ed Radioactive II or III by RSO? imples marked containing PCBs? as a DOT Hazardous? identified as Foreign Soil? Sample Receipt Criteria hipping containers received intact and ealed? amples requiring cold preservation within $0 \le 6$ deg. C?	Yes	1 1 2 2 2 1	the I Max Haza	Radiation Safety Group of further investigation.
ed Radioactive II or III by RSO? mples marked containing PCBs? as a DOT Hazardous? identified as Foreign Soil? Sample Receipt Criteria hipping containers received intact and ealed? amples requiring cold preservation within $0 \le 6$ deg. C?		2 2 1	Haza	
Imples marked containing PCBs?as a DOT Hazardous?as identified as Foreign Soil?Sample Receipt Criteriahipping containers received intact and ealed?amples requiring cold preservation within $0 \le 6$ deg. C?		2 2 1		ard Class Shipped: UN#:
as a DOT Hazardous? is identified as Foreign Soil? Sample Receipt Criteria hipping containers received intact and ealed? amples requiring cold preservation within $0 \le 6$ deg. C?		2 -		ard Class Shipped: UN#:
s identified as Foreign Soil? Sample Receipt Criteria hipping containers received intact and ealed? amples requiring cold preservation within $0 \le 6$ deg. C?		NA 1 K		ard Class Shipped: UN#:
Sample Receipt Criteria hipping containers received intact and ealed? amples requiring cold preservation within $0 \le 6$ deg. C?		NA	No	
hipping containers received intact and ealed? amples requiring cold preservation within $0 \le 6$ deg. C?		NA	No	
ealed? amples requiring cold preservation within $0 \le 6$ deg. C?	~			Comments/Qualifiers (Required for Non-Conforming Items)
within $0 \le 6$ deg. C?				Circle Applicable: seals broken damaged container leaking container other (describe)
	~			Preservation Method: <u>(ce hags</u> ) blue ice dry ice none other (describe)
hain of custody documents included with shipment?	1			
ample containers intact and sealed?	~			Circle Applicable: seals broken damaged container leaking container other (describe)
amples requiring chemical reservation at proper pH?		~		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
OA vials free of headspace (defined as 6mm bubble)?		~		Sample ID's and containers affected:
are Encore containers present?			~	(If yes, immediately deliver to Volatiles laboratory)
amples received within holding time?	r			Id's and tests affected:
ample ID's on COC match ID's on ottles?	~			Sample ID's and containers affected:
Date & time on COC match date & time n bottles?	/			Sample ID's affected:
Number of containers received match umber indicated on COC?	~			Sample ID's affected:
COC form is properly signed in elinquished/received sections?	r			
nts: Fedter 9457 3163	5 (	9922	-1	
	amples received within holding time? ample ID's on COC match ID's on ottles? Date & time on COC match date & time n bottles? Number of containers received match umber indicated on COC? COC form is properly signed in elinquished/received sections?	amples received within holding time? ample ID's on COC match ID's on ottles? Date & time on COC match date & time n bottles? Aumber of containers received match umber indicated on COC? COC form is properly signed in elinquished/received sections?	amples received within holding time?         ample ID's on COC match ID's on ottles?         Date & time on COC match date & time n bottles?         Tumber of containers received match umber indicated on COC?         COC form is properly signed in elinquished/received sections?	amples received within holding time?

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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, August 2009	Start:	8/24/2009	End:	9/30/2009
LTO DATE:			LTC	NUMBER:		
Consultant Name:		MWH	Contract Laboratory:		GEL	
Address:	2121 N	I. California Blvd. Ste. 60		20	040 Savage F	Rd.
	Wa	alnut Creek, CA 94596		Cha	rleston, SC 2	9407
Contact Name:		Sarah Von Raesfeld	Lab Contact Name:		Jackie Trude	
Phone Number:		925-627-4654	Phone Number:		843-769-738	
Fax Number:		925-627-4501	Fax Number: _		843-766-1178	
E-mail Address:	<u>Sarah</u>	VonRaesfeld@mwhglobal.com	E-mail Address:	jacque	line.trudell@g	gel.com
Date Required:		SAMPLE	CONTAINER ORDER FORM Requested Analyses:	(6)	nacify # of Com	
Date Required.			Tequested Analyses.	Water	becify # of Samp Soil	Contingent
			Dioxins (1613B)	15	124	0
Date Sample Pickup:			EPA 8015M (DRO)			
			EPA 8015M (JET FUEL)			
Ship Containers To:			EPA 8015M (CC)			
Project Site		(enter "X")	TCE (8260B)	5	12	0
Consultant Office		(enter "X")	EPA 8270C SIM (SVOC)			
Other Location (specify in		_, ,	EPA 8310 (PAH)			
comments)		(enter "X")	EPA 8082 (PCB)	3	5	0
			Nickel (6020)	5	10	0
<b>Container Information</b>			Chromium (6020)	5	10	0
Trip Blank (VOA only)	No	(Yes/No)	Silver (6020)	5	10	0
Temp Blank (VOA Only)	No	(Yes/No)	Cadmium (6020)	10	35	0
DI Water Required?	No	(Yes/No)	Arsenic (6020)	5	10	0
MS/MSD Extra Bottles?	No	(Yes/No)	% Moisture (D2216)	0	170	0
		_	Lead (6020)	10	65	0
Sample Matrix:			Copper (6020)	10	75	0
Soil	Х	(select all applicable)	Zinc (6020)	5	20	0
Water	Х	(select all applicable)	Mercury by 7471A/7470A	5	25	0
Vapor		(select all applicable)				
Est. Total # of Samples:	175	Est. Total # of EDD	9s <u>40</u>			
		LABORATORY	REPORTING REQUIREMENTS Laboratory Results/Repo	rte Dolivor	ablaci	
Project TAT: Normal:	х	(10 Business days)	Draft Results Fax?:	Its Delivera	(Yes/No)	
RUSH:		<u> </u>	Draft Results E-mail?:	Yes	(Yes/No)	
		(Specify- 24 / 48 / 72HRS)		res	(res/NO)	
Other :		(Specify # of Days)	Specify Fax/E-mail Contact			
Report Due Date:			Name, #, E-mail Address:	Sarah.VonRae	sfeld@mwhgloba	al.com
			Send Original Reports To:			
Special Reporting Req	luireme	ents:	Project Site		(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.:			- # of Copies Reports Req.:	1	_()	
			NSTRUCTIONS/LTO NOTES		-	
		CONFIRMATIO	N OF TRANSMITTAL & RECEIPT	-		
LTO Sent By:			LTO Received By-			
Name:	Sarah V	on Raesfeld	Name:			
Date:	09/02/09	)	Date:			



## DATA VALIDATION REPORT

Boeing SSFL RFI ISRA

SAMPLE DELIVERY GROUP: 238077

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:	238077
Project Manager:	Dixie Hambrick
Matrix:	water/soil
QC Level:	V
No. of Samples:	13
No. of Reanalyses/Dilutions:	0
Laboratory:	GEL

#### Table 1. Sample Identification

Sample Name	Lab Sample Name	Sub-Lab Sample Name	Matrix	Collection	Method
HZET0808S001	238077013	1081003	Soil	9/29/2009 8:00:00 AM	1613B
HZET0104S001	238077001	1081001	Soil	9/29/2009 1:20:00 PM	1613B, 6020
HZET0105S001	238077002	1081002	Soil	9/29/2009 1:35:00 PM	1613B, 6020
HZET0230S001	238077003	N/A	Soil	9/29/2009 10:25:00 AM	6020
HZET0231S001	238077004	N/A	Soil	9/29/2009 10:15:00 AM	6020
HZET0232S001	238077005	N/A	Soil	9/29/2009 10:05:00 AM	6020
HZET0233S001	238077006	N/A	Soil	9/29/2009 11:10:00 AM	6020
HZET0234S001	238077007	N/A	Soil	9/29/2009 11:20:00 AM	6020
HZET0235S001	238077008	N/A	Soil	9/29/2009 11:00:00 AM	6020
HZET0236S001	238077009	N/A	Soil	9/29/2009 11:30:00 AM	6020
HZET0304S001	238077010	N/A	Soil	9/29/2009 8:45:00 AM	6020
HZET0305S001	238077011	N/A	Soil	9/29/2009 8:30:00 AM	6020
HZET0508S001	238077012	N/A	Soil	9/29/2009 9:00:00 AM	6010B, 6020, 7471A,

#### II. Sample Management

No anomalies were observed regarding sample management. The samples in this SDG were received at the laboratories 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.

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 or PCB congeners.	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

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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.
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.
*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 1613—Dioxin/Furans

Reviewed By: P. Meeks Date Reviewed: October 21, 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 (08/02).

- 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: The soil method blank had detects for all target compounds except 2,3,7,8-TCDD and total TCDD. Individual isomers detected below the reporting limit or at concentrations less than 5x the method blank concentration were qualified as nondetected, "U," at the reporting limit if detected below the reporting limit or at the level of contamination if detected above. In cases where the total concentration was equal to the concentration of the individual isomer, totals were also qualified as nondetected, "U," at the reporting limit if detected below the reporting limit or at the level of contamination if detected above. The remaining totals were qualified as estimated, "J."
- Blank Spikes and Laboratory Control Samples: Recoveries were within the acceptance criteria listed in Table 6 of Method 1613 and the 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: FBQW2239 (235913) was the field blank associated with the samples in this SDG; however, this sample was not analyzed for dioxins. The samples in this SDG had no identified equipment rinsate.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.
- 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. The laboratory performed and reported confirmation analyses for all 2,3,7,8-TCDF detects. As the confirmation analyses resulted in results similar to the original analyses, the reviewer rejected, "R," the confirmation analyses in all samples except HZET0105S001 in favor of the original analyses. The original 2,3,7,8-TCDF result for HZET0105S001 was reported as an estimated maximum possible concentration (EMPC); however, as the confirmation result was not reported as an EMPC, the reviewer rejected, "R," the original result in favor of the confirmation result in HZET0105S001
- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. The laboratory calculated and reported compound-specific detection limits. EMPCs were identified in the samples of this SDG and qualified with a "K" by the laboratory. Any EMPC was qualified as estimated, "UJ," in the samples of this SDG. EMPCs reported as totals were qualified as estimated, "J," as only a portion of the total was identified as an EMPC. Any detect below the laboratory lower calibration level was qualified as estimated, "J." Nondetects are valid to the estimated detection limit (EDL).

#### B. EPA METHODS 6010B, 6020, 7470A/7471A—Metals and Mercury

Reviewed By: P. Meeks Date Reviewed: October 21, 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 6010B, 6020, 7470A/7471A, and the National Functional Guidelines for Inorganic Data Review (7/02).

- Holding Times: Analytical holding times, six months for ICP and 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; however, the reviewer noted that the mercury CRDL recovery was below the control limit at 66%. Mercury detected in HZET0508S001 was qualified as estimated, "J."
- Blanks: Mercury was reported in the method blank at -0.00449 mg/kg; therefore, mercury detected in HZET0508S001 was qualified as estimated, "J." Method blanks and CCBs had no other detects.
- Interference Check Samples: Review is not applicable at a Level V validation.
- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratoryestablished QC limits.

- Laboratory Duplicates: Laboratory duplicate analyses were performed on HZET0508S001 for mercury and silver and on HZET0104S001 for arsenic, cadmium, chromium, copper, lead, nickel, and zinc. The RPDs were within the method-established control limit.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HZET0508S001 for mercury and silver and on HZET0104S001 for arsenic, cadmium, chromium, copper, lead, nickel, and zinc. The chromium MSD recovery was above the control limit; therefore, chromium detected in HZET0508S001 was qualified as estimated, "J." All remaining recoveries and all RPDs were within laboratory-established QC limits.
- Serial Dilution: Serial dilution analyses were performed on HZET0508S001 for mercury and silver and on HZET0104S001 for arsenic, cadmium, chromium, copper, lead, nickel, and zinc. 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. Copper in HZET0304S001 and HZET0305S001 and several ICP-MS analytes in HZET0508S001 were reported from 10x dilutions due to matrix interference. The remaining ICP-MS analytes were reported from the laboratory's standard 2x 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: FBQW2239 (235913) was identified as the field blank associated with the samples in this SDG. There were no applicable detects in this sample. This SDG had no identified equipment rinsate.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.

## Validated Sample Result Forms: 238077

## Analysis Method 1613B

Sample Name	HZET0104S001	Ν	Matrix T	ype: Soil	Res	ult Type: Pr	imary
Lab Sample Name:	1081001	Sample	9/	29/2009 1:20:00 PM	4	Validation	V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Qualifier	Validation	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	4.16	4.16	4.16 pg/g		U	B, RL changed from 2.3 and EDL from 0.346
1,2,3,4,6,7,8-HpCDF	67562394	2.3	2.3	2.3 pg/g	JK	UJ	*III, result changed from 0.735 and EDL from 0.172
1,2,3,4,7,8,9-HpCDF	55673897	0.329	2.3	0.329 pg/g	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.234	2.3	0.234 pg/g	U	U	
1,2,3,4,7,8-HxCDF	70648269	2.3	2.3	2.3 pg/g	JK	UJ	*III, result changed from 0.186 and EDL from 0.131
1,2,3,6,7,8-HxCDD	57653857	0.316	2.3	0.272 pg/g	J	J	
1,2,3,6,7,8-HxCDF	57117449	0.141	2.3	0.141 pg/g	U	U	
1,2,3,7,8,9-HxCDD	19408743	0.265	2.3	0.265 pg/g	U	U	
1,2,3,7,8,9-HxCDF	72918219	0.193	2.3	0.193 pg/g	U	U	
1,2,3,7,8-PeCDD	40321764	0.156	2.3	0.156 pg/g	U	U	
1,2,3,7,8-PeCDF	57117416	2.3	2.3	2.3 pg/g	J	U	B, result changed from 0.515 and EDL from 0.145
2,3,4,6,7,8-HxCDF	60851345	2.3	2.3	2.3 pg/g	JK	UJ	*III, result changed from 0.18 and EDL from 0.14
2,3,4,7,8-PeCDF	57117314	2.3	2.3	2.3 pg/g	J	U	B, result changed from 0.224 and EDL from 0.154
2,3,7,8-TCDD	1746016	0.147	0.46	0.147 pg/g	U	U	
2,3,7,8-TCDF	51207319	0.831	0.46	0.133 pg/g		R	D
2,3,7,8-TCDF	51207319	0.46	0.46	0.46 pg/g	J	U	B, result changed from 0.458 and EDL from 0.267
OCDD	3268879	55.6	4.6	0.647 pg/g			

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## Analysis Method 1613B

OCDF	39001020	4.6	4.6	4.6 pg/g	J	U	B, result changed from 1.54 and EDL from 0.616
Total HpCDD	37871004	13.5	2.3	0.346 pg/g		J	В
Total HpCDF	38998753	1.76	2.3	0.172 pg/g	J	J	B, *III
Total HxCDD	34465468	1.58	2.3	0.234 pg/g	J	J	В
Total HxCDF	55684941	1.79	2.3	0.131 pg/g	J	J	B, *III
Total PeCDD	36088229	0.186	2.3	0.156 pg/g	J	J	В
Total PeCDF	30402154	2.31	2.3	0.0791 pg/g		J	В
Total TCDD	41903575	0.18	0.46	0.147 pg/g	J	J	
Total TCDFs	55722275	1.87	0.46	0.267 pg/g		J	В

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Sample Name	HZET0105S001	r	Matrix T	ype: Soil	Res	ult Type: Pr	imary
Lab Sample Name:	1081002	Sample	9/	29/2009 1:35:00 PM	V	alidation	V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Qualifier	Validation	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	2.12	2.12	2.12 pg/g	J	U	B, result changed from 0.64 and EDL from 0.358
1,2,3,4,6,7,8-HpCDF	67562394	0.214	2.12	0.214 pg/g	U	U	
1,2,3,4,7,8,9-HpCDF	55673897	0.338	2.12	0.338 pg/g	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.246	2.12	0.246 pg/g	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.18	2.12	0.18 pg/g	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.277	2.12	0.277 pg/g	U	U	
1,2,3,6,7,8-HxCDF	57117449	0.175	2.12	0.175 pg/g	U	U	
1,2,3,7,8,9-HxCDD	19408743	2.12	2.12	2.12 pg/g	JK	UJ	*III, result changed from 0.328 and EDL from 0.273
1,2,3,7,8,9-HxCDF	72918219	0.256	2.12	0.256 pg/g	U	U	
1,2,3,7,8-PeCDD	40321764	0.159	2.12	0.159 pg/g	U	U	
1,2,3,7,8-PeCDF	57117416	0.14	2.12	0.14 pg/g	U	U	
2,3,4,6,7,8-HxCDF	60851345	0.18	2.12	0.18 pg/g	U	U	
2,3,4,7,8-PeCDF	57117314	0.141	2.12	0.141 pg/g	U	U	
2,3,7,8-TCDD	1746016	0.127	0.424	0.127 pg/g	U	U	
2,3,7,8-TCDF	51207319	0.275	0.424	0.151 pg/g	JK	R	D
2,3,7,8-TCDF	51207319	0.426	0.426	0.426 pg/g		U	B, RL changed from 0.424 and EDL from 0.177
OCDD	3268879	7.02	7.02	7.02 pg/g		U	B, RL changed from 4.24 and EDL from 0.596
OCDF	39001020	0.569	4.24	0.569 pg/g	U	U	
Total HpCDD	37871004	1.71	2.12	0.358 pg/g	J	J	В
Total HpCDF	38998753	0.214	2.12	0.214 pg/g	U	U	
Total HxCDD	34465468	0.328	2.12	0.246 pg/g	J	J	B, *III
Total HxCDF		0.175	2.12	0.175 pg/g	U	U	
	55684941	0.175	2.12	0.175 P8 5	e	U	
Total PeCDD	55684941 36088229	0.175	2.12	0.159 pg/g	U	U	
Total PeCDD Total PeCDF							В

## Analysis Method 1613B

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Analysis Method	1613B					
Total TCDFs	55722275	0.956	0.424	0.151 pg/g	J	B, *III

Sample Name	HZET0808S001	]	Matrix T	ype: Soi	1	Res	ult Type: Pr	imary
Lab Sample Name:	1081003	Sample	9/.	29/2009 8:0	00:00 AM	í V	alidation	V
Analyte	CAS No	Result Value	RL	MDL I	Result	Lab Qualifier	Validation	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	2.04	2.04	2.04	pg/g	1	U	B, result changed from 1.3 and EDL from 0.248
1,2,3,4,6,7,8-HpCDF	67562394	2.04	2.04	2.04	pg/g	ЈК	UJ	*III, result changed from 0.247 and EDL from 0.129
1,2,3,4,7,8,9-HpCDF	55673897	0.247	2.04	0.247	pg/g	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.158	2.04	0.158	pg/g	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.147	2.04	0.102		J	J	
1,2,3,6,7,8-HxCDD	57653857	0.181	2.04	0.181	pg/g	U	U	
1,2,3,6,7,8-HxCDF	57117449	0.104	2.04	0.104	pg/g	U	U	
1,2,3,7,8,9-HxCDD	19408743	0.178	2.04	0.178	pg/g	U	U	
1,2,3,7,8,9-HxCDF	72918219	0.151	2.04	0.151	pg/g	U	U	
1,2,3,7,8-PeCDD	40321764	0.106	2.04	0.106	pg/g	U	U	
1,2,3,7,8-PeCDF	57117416	2.04	2.04	2.04	pg/g	J	U	B, result changed from 0.175 and EDL from 0.134
2,3,4,6,7,8-HxCDF	60851345	0.11	2.04	0.11	pg/g	U	U	
2,3,4,7,8-PeCDF	57117314	0.142	2.04	0.142		U	U	
2,3,7,8-TCDD	1746016	0.0971	0.408	0.0971	pg/g	U	U	
2,3,7,8-TCDF	51207319	0.274	0.408	0.145	pg/g	JK	R	D
2,3,7,8-TCDF	51207319	0.408	0.408	0.408	pg/g	J	U	B, result changed from 0.257 and EDL from 0.172
OCDD	3268879	15.1	4.08	0.868	pg/g			
OCDF	39001020	4.08	4.08	4.08	pg/g	J	U	B, result changed from 0.936 and EDL from 0.591
Total HpCDD	37871004	3.56	2.04	0.248	pg/g		J	В
Total HpCDF	38998753	0.582	2.04	0.129	pg/g	J	J	B, *III
Total HxCDD	34465468	0.158	2.04	0.158		U	U	
Total HxCDF	55684941	0.724	2.04	0.102	pg/g	J	J	В
Total PeCDD	36088229	0.106	2.04	0.106	pg/g	U	U	
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#### Analysis Method 1613B

## Analysis Method 1613B

Total PeCDF	30402154	1.1	2.04	0.0544 pg/g	J	J	В
Total TCDD	41903575	0.0971	0.408	0.0971 pg/g	U	U	
Total TCDFs	55722275	0.681	0.408	0.172 pg/g		J	B, *III
Analysis Metho	d 6010B						
Sample Name	HZET0508S001	Ν	Matrix T	ype: Soil	Res	ult Type: Pr	imary
Lab Sample Name:	238077012	Sample	9/2	29/2009 9:00:00 AM		Validation	V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Qualifier	Validation	Validation Notes
Silver	7440224	0.105	0.523	0.105 mg/kg	U	U	

Sample Name	HZET0104S001	ľ	Matrix T	ype: Soil	Result Type: Primary
Lab Sample Name:	238077001	Sample	9/2	29/2009 1:20:00 PM	Validation V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Validation Validation Qualifier Notes
Cadmium	7440439	0.292	0.221	0.0221 mg/kg	
Lead	7439921	6.43	0.441	0.11 mg/kg	
Zinc	7440666	52.3	2.21	0.441 mg/kg	
Sample Name	HZET0105S001	Ι	Matrix T	ype: Soil	<b>Result Type:</b> Primary
Lab Sample Name:	238077002	Sample	9/2	29/2009 1:35:00 PM	<b>Validation</b> V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Validation Validation Qualifier Notes
Cadmium	7440439	0.0723	0.203	0.0203 mg/kg	J J
Lead	7439921	5.41	0.406	0.102 mg/kg	
Zinc	7440666	45	2.03	0.406 mg/kg	
Sample Name	HZET0230S001	Γ	Matrix T	ype: Soil	Result Type: Primary
Lab Sample Name:	238077003	Sample	9/2	29/2009 10:25:00 AN	M Validation V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Validation Validation Qualifier Notes
Lead	7439921	4.7	0.401	0.1 mg/kg	
Sample Name	HZET0231S001	I	Matrix T	ype: Soil	<b>Result Type:</b> Primary
Lab Sample Name:	238077004	Sample	9/2	29/2009 10:15:00 AN	M Validation V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Validation Validation Qualifier Notes
Lead	7439921	5.76	0.395	0.0988 mg/kg	
Sample Name	HZET0232S001	Ι	Matrix T	ype: Soil	<b>Result Type:</b> Primary
Lab Sample Name:	238077005	Sample	9/2	29/2009 10:05:00 AN	M Validation V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Validation Validation Qualifier Notes
Lead	7439921	17.9	0.404	0.101 mg/kg	
Sample Name	HZET0233S001	Ι	Matrix T	ype: Soil	Result Type: Primary
Lab Sample Name:	238077006	Sample	9/2	29/2009 11:10:00 AM	M Validation V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Validation Validation Qualifier Notes
Lead	7439921	7.92	0.402	0.101 mg/kg	

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Sample Name	HZET0234S001	I	Matrix T	ype: Soil	Res	ult Type: Pri	imary
Lab Sample Name:	238077007	Sample	9/2	29/2009 11:20:00 AN	м	Validation	V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Qualifier	Validation	Validation Notes
Lead	7439921	22.9	0.402	0.101 mg/kg			
Sample Name	HZET0235S001	Γ	Matrix T	ype: Soil	Res	ult Type: Pri	imary
Lab Sample Name:	238077008	Sample	9/2	29/2009 11:00:00 AN	М	Validation	V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Qualifier	Validation	Validation Notes
Lead	7439921	4.32	0.405	0.101 mg/kg			
Sample Name	HZET0236S001	Ι	Matrix T	ype: Soil	Res	ult Type: Pri	imary
Lab Sample Name:	238077009	Sample	9/2	29/2009 11:30:00 AN	И	Validation	V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Qualifier	Validation	Validation Notes
Lead	7439921	7.18	0.396	0.0991 mg/kg			
Sample Name	HZET0304S001	Ι	Matrix T	ype: Soil	Res	ult Type: Pri	imary
Lab Sample Name:	238077010	Sample	9/2	29/2009 8:45:00 AM		Validation	V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Qualifier	Validation	Validation Notes
Copper	7440508	11.4	0.993	0.328 mg/kg			
Copper Lead	7440508 7439921	11.4 7.35	0.993 0.397	0.328 mg/kg 0.0993 mg/kg			
**		7.35	0.397	00	Res	ult Type: Pri	imary
Lead	7439921	7.35	0.397 <b>Matrix T</b>	0.0993 mg/kg		ult Type: Pri Validation	imary V
Lead Sample Name	7439921 HZET0305S001	7.35 I	0.397 <b>Matrix T</b>	0.0993 mg/kg <b>'ype:</b> Soil			V
Lead Sample Name Lab Sample Name:	7439921 HZET0305S001 238077011	7.35 Sample Result	0.397 <b>Matrix T</b> 9/2	0.0993 mg/kg <b>'ype:</b> Soil 29/2009 8:30:00 AM	Lab	Validation	V Validation
Lead Sample Name Lab Sample Name: Analyte	7439921 HZET0305S001 238077011 CAS No	7.35 Sample Result Value	0.397 Matrix T 9/2 RL	0.0993 mg/kg <b>'ype:</b> Soil 29/2009 8:30:00 AM <b>MDL Result</b>	Lab	Validation	V Validation
Lead Sample Name Lab Sample Name: Analyte Copper	7439921 HZET0305S001 238077011 CAS No 7440508	7.35 Sample Result Value 14.3 8.31	0.397 Matrix T 9/2 RL 1.09 0.435	0.0993 mg/kg <b>'ype:</b> Soil 29/2009 8:30:00 AM <b>MDL Result</b> 0.359 mg/kg	Lab Qualifier	Validation	V Validation Notes
Lead Sample Name Lab Sample Name: Analyte Copper Lead	7439921 HZET0305S001 238077011 CAS No 7440508 7439921	7.35 Sample Result Value 14.3 8.31	0.397 Matrix T 9/2 RL 1.09 0.435 Matrix T	0.0993 mg/kg <b>'ype:</b> Soil 29/2009 8:30:00 AM <b>MDL Result</b> 0.359 mg/kg 0.109 mg/kg	Lab Qualifier Res	Validation Validation	V Validation Notes
Lead Sample Name Lab Sample Name: Analyte Copper Lead Sample Name	7439921 HZET0305S001 238077011 CAS No 7440508 7439921 HZET0508S001	7.35 Sample Result Value 14.3 8.31	0.397 Matrix T 9/2 RL 1.09 0.435 Matrix T	0.0993 mg/kg (ype: Soil 29/2009 8:30:00 AM MDL Result 0.359 mg/kg 0.109 mg/kg (ype: Soil	Lab Qualifier Res	Validation Validation ult Type: Pri Validation Validation	V Validation Notes imary V
Lead Sample Name Lab Sample Name: Analyte Copper Lead Sample Name Lab Sample Name:	7439921 HZET0305S001 238077011 CAS No 7440508 7439921 HZET0508S001 238077012	7.35 Sample Result Value 14.3 8.31 Sample Result	0.397 Matrix T 9/2 RL 1.09 0.435 Matrix T 9/2	0.0993 mg/kg <b>'ype:</b> Soil 29/2009 8:30:00 AM <b>MDL Result</b> 0.359 mg/kg 0.109 mg/kg <b>'ype:</b> Soil 29/2009 9:00:00 AM	Lab Qualifier Res Lab	Validation Validation ult Type: Pri Validation Validation	V Validation Notes imary V Validation
Lead Sample Name Lab Sample Name: Analyte Copper Lead Sample Name Lab Sample Name: Analyte	7439921 HZET0305S001 238077011 CAS No 7440508 7439921 HZET0508S001 238077012 CAS No	7.35 Sample Result Value 14.3 8.31 Sample Result Value	0.397 Matrix T 9/2 RL 1.09 0.435 Matrix T 9/2 RL	0.0993 mg/kg (ype: Soil 29/2009 8:30:00 AM MDL Result 0.359 mg/kg 0.109 mg/kg (ype: Soil 29/2009 9:00:00 AM MDL Result	Lab Qualifier Res Lab	Validation Validation ult Type: Pri Validation Validation	V Validation Notes imary V Validation Notes
Lead Sample Name Lab Sample Name: Analyte Copper Lead Sample Name Lab Sample Name Lab Sample Name Analyte Arsenic Cadmium Chromium	7439921 HZET0305S001 238077011 CAS No 7440508 7439921 HZET0508S001 238077012 CAS No 7440382 7440439 7440439 7440473	7.35 Sample Result Value 14.3 8.31 Sample Result Value 5.9 0.0851 22.4	0.397 Matrix T 9/2 RL 1.09 0.435 Matrix T 9/2 RL 1.06 0.211 3.17	0.0993 mg/kg (ype: Soil 29/2009 8:30:00 AM MDL Result 0.359 mg/kg 0.109 mg/kg (ype: Soil 29/2009 9:00:00 AM MDL Result 0.211 mg/kg 0.0211 mg/kg 1.06 mg/kg	Lab Qualifier Res Lab Qualifier	Validation Validation ult Type: Pri Validation Validation	V Validation Notes imary V Validation
Lead Sample Name Lab Sample Name: Analyte Copper Lead Sample Name Lab Sample Name Lab Sample Name: Analyte Arsenic Cadmium	7439921 HZET0305S001 238077011 CAS No 7440508 7439921 HZET0508S001 238077012 CAS No 7440382 7440382 7440439	7.35 Sample Result Value 14.3 8.31 Sample Result Value 5.9 0.0851	0.397 Matrix T 9/2 RL 1.09 0.435 Matrix T 9/2 RL 1.06 0.211	0.0993 mg/kg (ype: Soil 29/2009 8:30:00 AM MDL Result 0.359 mg/kg 0.109 mg/kg (ype: Soil 29/2009 9:00:00 AM MDL Result 0.211 mg/kg 0.0211 mg/kg	Lab Qualifier Res Lab Qualifier	Validation Validation ult Type: Pri Validation Validation J	V Validation Notes imary V Validation Notes

## Analysis Method 6020

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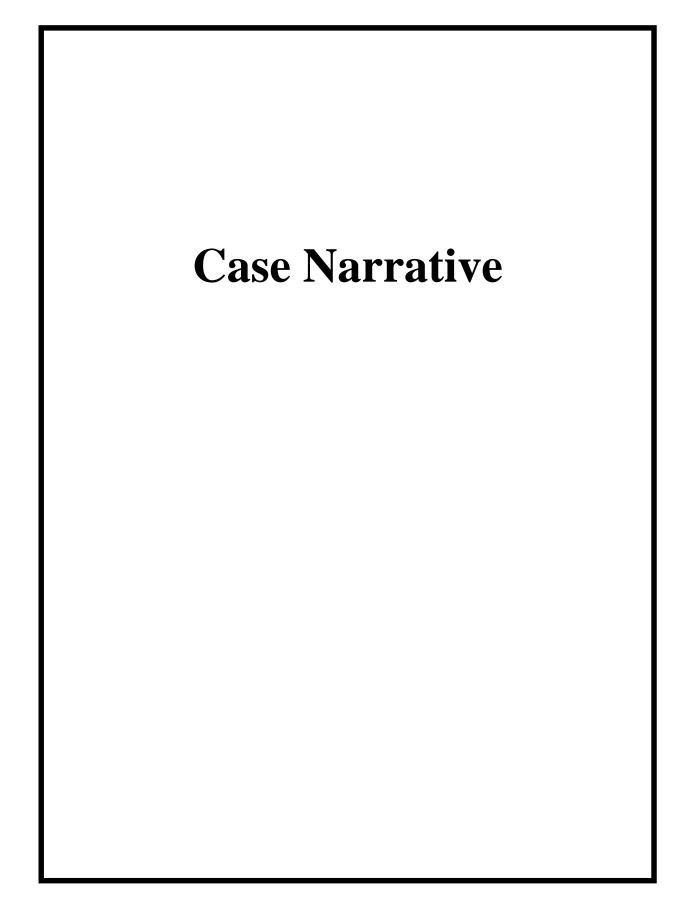
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Sample Name	HZET0508S001	1	Matrix T	ype: Soil	Res	ult Type: Pri	imary
Lab Sample Name:	238077012	Sample	9/2	29/2009 9:00:00 AM	,	Validation	V
Analyte	CAS No	Result Value	RL	MDL Result	Lab Qualifier	Validation	Validation Notes
Mercury	7439976	0.0109	0.0121	0.0041 mg/kg	J	J	B, *III

## Analysis Method 7471A

## Table of Contents

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Percent Moisture	466
Metals Analysis Case Narrative Sample Data Summary Quality Control Summary Standards Raw Data Miscellaneous	<b>470</b> 471 477 490 526 538 787



Case Narrative for Boeing - SSFL (MWH) Work Order: 238077 SDG: 238077

October 12, 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 September 30, 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>
238077001	HZET0104S001
238077002	HZET0105S001
238077003	HZET0230S001
238077004	HZET0231S001
238077005	HZET0232S001
238077006	HZET0233S001
238077007	HZET0234S001
238077008	HZET0235S001
238077009	HZET0236S001
238077010	HZET0304S001
238077011	HZET0305S001
238077012	HZET0508S001
238077013	HZET0808S001

#### **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:

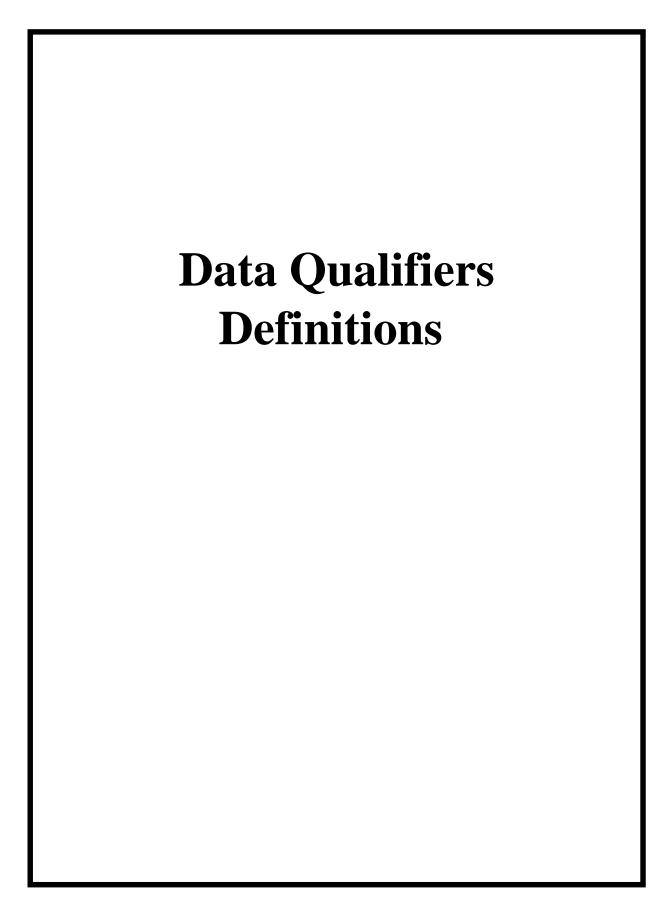
The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Metals, Percent Moisture and Dioxins (Cape Fear Analytical).

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.

Bacqueline a Judel

Jacqueline Trudell

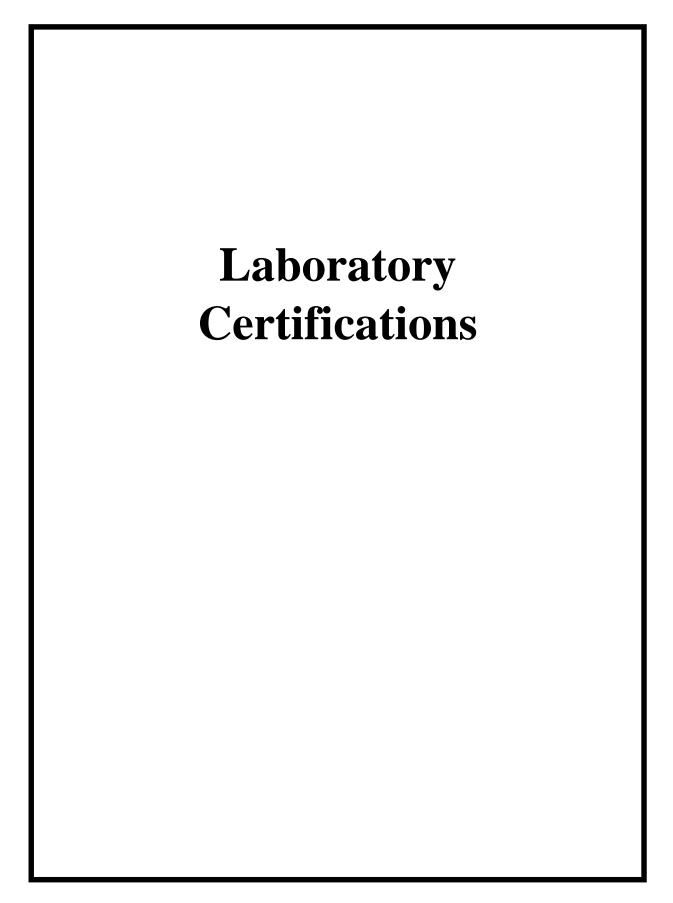
Project Manager



#### 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 02 October 2009

# Chain of Custody and Supporting Documentation

Customer Information         Project Information         Project Information         Project Information           Customer Information         Sin: Sin: Sin: Sin: Sin: Sin: Sin: Sin:												•	2410 0.7	PE	~				Pag	Page: 1 of 2
RL         Client Name:         Boeing         Collector:         A Collector:         B Collector:         B Collector:         Collector: <th>Customei</th> <th>r Information</th> <th></th> <th><b>Project Inform</b></th> <th>nation</th> <th></th> <th></th> <th>Proje</th> <th>act Int</th> <th>forma</th> <th>tion</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Customei	r Information		<b>Project Inform</b>	nation			Proje	act Int	forma	tion									
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On Rassfeld         Project Number:         1350/15/4.05462         Requested Analyses           C. Galforina Blu/d         Project Namagor:         Alex Flech         Alex Flech         Alex Flech           0.00         0.00         Field Contract:         Jack Flech         Alex Flech         Alex Flech           0.00         Field Contract:         Field Contract:         Jack Flech         Alex Flech         Alex Flech           0.00         Field Contract:         Jack Flech         Alex Flech         Alex Flech         Alex Flech           0.00         Field Contract:         Jack Flech         Alex Flech         Alex Flech         Alex Flech           0.00         Field Contract:         Jack Flech         Alex Flech         Alex Flech         Alex Flech           0.00         Alex Flech         Alex Flech         Alex Flech         Alex Flech         Alex Flech           0.00         Alex Flech         Alex Flech         Alex Flech         Alex Flech         Alex Flech           0.00         Alex Flech         Alex Flech         Alex Flech         Alex Flech         Alex Flech           0.00         Alex Flech         Alex Flech         Alex Flech         Alex Flech         Alex Flech           0.00         Alex Flech         <	Company:			Sampling Even	-	Sampling,	August 2009	Cont	act #:											
Confirming Blud         Project Manager:         Andre Flacht           000         Fall Phone #:         (263) 527-4527           000         Fall Phone #:         (263) 527-4527           010         Fall Phone #:         (263) 527-4527           010         Fall Phone #:         (263) 527-4527           011         Lab Name         (214) 2607           1         Lab Name         (214) 2607           1         Lab Name         (214) 2607           1         Lab Name         (214) 7607           1         Lab Name         (214) 7607           1         Lab Name         (214) 7607           1         Lab Name         (214) 7767           1         Lab Name         (214) 7767           1         Lab Name         (214) 7767           Name         Lab Name         (214) 7767           Sol	Report to:			Project Numbe	-	314.05462						Reqt	lested	Analy	ses				Insti	ructions/TAT
00         PM Phone #:         (025) 527-1627           Creek         Field Contact:         Benjamin Stewart           Field Contact:         Benjamin Stewart           Field Contact:         Benjamin Stewart           Creek         Field Contact:         Benjamin Stewart           Field Contact:         Benjamin Stewart           Greek         Tab Name:         Greek           Field Contact:         Benjamin Stewart           Greek         Tab Name:         Greek           Antix         Date         The Contact #:         Greek           Matrix         Date         Thme         Contact #:         Greek           Matrix         Date         Thme         Contact #:         Greek         Greek           Action State         Contact #:         Greek         Greek         Greek         Greek           Matrix         Date         The Contact #:         Greek         Greek         Greek         Greek           Action State         Greek         State         State         Greek         Greek         Greek           Action State         State         State         State         Greek         Greek         Greek         Greek         Greek         Greek<	Address:	2121 N. California Blvd	_	Project Manage	+	-ischl														
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Custome	Customer Information	Project Information	ation		<b>Project Information</b>	nform	ation							
Site:	SSFL	Client Name:	Boeing		Collector:		A. Goldenberg	erg				Boeing PM:	:Wd	
Company: MWH	: MWH	Sampling Event:	1	ISRA Sampling, August 2009	Contact #:	#							-	
Report to.	Report to: Sarah Von Raesfeld	Project Number:	1891614.05462	462		T		Requ	ested /	Requested Analyses	s			Instructions/TAT
Address:	2121 N. California Blvd	Project Manager:	: Alex Fischl											
	Suite 600	PM Phone #:	(925) 627-4627	627										Numerical values for
	Watnut Creek	Field Contact:	Benjamin Stewart	tewart										analyses equate to turn around time in days
	CA	Field Contact #:	(818) 266-1378	378			Met	М					-	н - Ноід
	94596	Lab Name:	GEL Laboratories, LLC	Itories, LLC			als b	etals					-	EH - Extract/Extrude & Hold
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell	ell										
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road	e Road						-	_			Note: Values in the calls
			Charleston, SC 29407	SC 29407										bellow are Turn Around
		Lab Phone:	(843) 769-7388	388										limes,
Sample Name	ame	Matrix	Date Time	No. of Containers	B - Soil ure Soil	- Water	- Water Copper	IA - Soil	- Water 32 - Soil	DI-WET	- Water	- Water M - Soil		Comments
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HZET0723S001	S001 Soll	/6	9/30/2009 14:25	25 2	5 5		2		-		-			
HZET0724S001	S001 Soil	/6	9/30/2009 13:30	30 2	5 5	-	2	$\vdash$	-					
HZET0725S001	S001 Soil	/6	9/30/2009 13:25	25 2	5 5		2	$\vdash$						

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Allon of Parts	60-05-6	Sylv	60/1/01				
Company: MWH	Time: 11/:51	Company:	Time: 0835	Company:	Time:	Company:	Time:
Comments: Sample volume fo	r dioxin analysis	comments: Sample volume for dioxin analysis shipped directly to CFA, sample volume for metals analysis shipped to GEL	olume for metals a	inalysis shipped to GEL	Geotr	Geotracker EDF	
					Data	Data Validation Package 🖌 Level IV	Level IV

GEL Laboratories LLC

## SAMPLE RECEIPT & REVIEW FORM

Client: SSFL				SDG/ARCOC/Work Order: 238180
Received By: SL				Date Received: 10/1/09
Suspected Hazard Information	Yes	No		Counts $> x2$ area background on samples not marked "radioactive", contact the Radiation ety Group of further investigation.
COC/Samples marked as radioactive		~	Ma	ximum Counts Observed*: 80 CPm
Classified Radioactive II or III by RS		$\vdash$	1 /	
COC/Samples marked containing PC	Bs?		1	
Shipped as a DOT Hazardous?		Ľ	Ha	zard Class Shipped: UN#:
Samples identified as Foreign Soil?			1	
Sample Receipt Criteria	Yes	NA	Ŷ	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received inta sealed?	ct and	Ľ		Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservat within $(0 \le 6 \text{ deg. C})$ ?	ion	ľ		Preservation Method: ide bags blue ice dry ice none other (describe)
3 Chain of custody documents inclusive with shipment?	ided			
4 Sample containers intact and sea	ed?		J	seals broken damaged container leaking container other (describe) 3 Amber 1 L bothles of EBQW2248 arrived broken
5 Samples requiring chemical prese at proper pH?	ervation	ľ		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (def < 6mm bubble)?	ined as	~	P	Sample ID's and containers affected:
7 Are Encore containers present?			~	(1) 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 obottles?	on 🗸			Sample ID's and containers affected:
10 Date & time on COC match date on bottles?	& time	P		Sample ID's affected:
11 Number of containers received m number indicated on COC?	atch		1	HZBSIF785001/2 and HZBS01795001/2 and Only 1 container of HZET0718-0725.
12 COC form is properly signed in relinquished/received sections?	V			only 1 container of HZET0718-0725.
Comments: 9457 316 9457 311	3 081 3 083	0 32	4-2	0
PM (or PMA				J Date 10/1/09

Subject: RE: ISRA Sample Receipt Issues - 10/1/09 From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com> Date: Thu, 1 Oct 2009 10:13:45 -0600 To: Jackie Trudell <jacqueline.trudell@gel.com>, Sean Leffler <Sean.S.Leffler@us.mwhglobal.com> CC: Allison Ruotolo <Allison.M.Ruotolo@us.mwhglobal.com>

Hi Jackie,

Please send volume to CFA for the dioxin analysis and hopefully we will not need to re-run any of the other organic analyses.

----Original Message-----From: Jackie Trudell [<u>mailto:jacqueline.trudell@gel.com</u>] Sent: Thursday, October 01, 2009 8:12 AM To: Sarah Von Raesfeld; Sean Leffler Subject: ISRA Sample Receipt Issues - 10/1/09

Sarah and Sean-We received 3 broken 1L glass amber containers today for sample EBQW2248. With the 5 remaining 1L containers, we will be able to preform the requested analyses as long as no re-extractions are required. Please also note, that no liquid volume was sent from the field to CFA for Dioxin analysis.

Thanks, Jackie

Jacqueline Trudell Project Manager GEL Laboratories, LLC 2040 Savage Road Charleston, SC (USA) 29407 Direct: 843.769.7388 Main: 843.556.8171 ext. 4406 Fax: 843.766.1178 E-mail: jacqueline.trudell@gel.com Web: www.gel.com

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

To: Jackie Trudell

Laboratory GEL Laboratories, LLC

From: Sean Le Requestor signature



Phone: 843-769-7388

E-mail: jacqueline.trudell@gel.com

Subject: Chain-of-Custody Form Analytical Request Change

No. of Pages: 3

#### 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
MWHBM20 091001_00	HZBS0081AS001, HZBS0081AS002	9/30/09		Run perchlorate by 6850
MWHBM20 091001_00	HZBS0178S001, HZBS0178S002	9/30/09		Run perchlorate by 6850
MWHBM20 091001_00	HZBS0179S001, HZBS0179S002	9/30/09		Run perchlorate by 6850
(2)				

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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Client Name:         Decing         Collector:         A Collector:	Custome	Customer Information		Project information	mation			proj	<b>Project Information</b>	ormati	ų									
Hit         BarreyBing, Event.         First A Sampling, August 2006         Part Provided         Provided Number:         Provided Number: </th <th>Site:</th> <th>SSFL</th> <th></th> <th><b>Client Name:</b></th> <th>Boeir</th> <th>6</th> <th></th> <th>Colle</th> <th>ctor.</th> <th>A. Got</th> <th>lenber</th> <th>6</th> <th></th> <th></th> <th></th> <th>Boel</th> <th>Boeing PM</th> <th>-</th> <th></th> <th></th>	Site:	SSFL		<b>Client Name:</b>	Boeir	6		Colle	ctor.	A. Got	lenber	6				Boel	Boeing PM	-		
Stronger         Project Number:         1881/01         Project Number:         Requires Number:         Requ	Company:	HWW		Sampling Eve	-	Sampling,	August 2009	Cont	act #:											
Tile Evcl         Project Manager:         Aux Facht           Tile Evcl         Paraject Manager:         Aux Facht           Paraject Manager:         Faled Contracts:         (919) 2671-4827           Faled Contracts:         (919) 2671-4827         Aux Facht           Faled Contracts:         (919) 2681-1378         Aux Facht           Merglobel.com         Lab Andress:         (203) 5271-4827           Lab Anno:         Lab Anno:         GEL LabOratoris:         (319) 2681-3378           Merglobel.com         Lab Andress:         (203) 5877-4827         Aux Andress:           Marrier         GEL LabOratoris:         (319) 2681-3378         Aux Andress:           Marrier         Canterster:         (319) 2681-3378         Aux Andress:           Marrier         Lab Phones:         Canterster:         (319) 2681-3378           Marrier         Lab Andress:         Canterster:         Aux Andress:           Marrier         Contract         Date         Time         Aux Andress:           Marrier         Contract         Date         Time         Aux Andress:           Marrier         Contact         Date         Time         Aux Andress           Bool         Marri         Marrier         Pach <t< td=""><td>Report to:</td><td>_</td><td></td><td>Project Numb</td><td><b>i</b>—</td><td>314.05462</td><td></td><td></td><td></td><td></td><td></td><td>senber</td><td>ted A</td><td>ahyset</td><td></td><td></td><td></td><td></td><td>Instr</td><td>Instructions/TAT</td></t<>	Report to:	_		Project Numb	<b>i</b> —	314.05462						senber	ted A	ahyset					Instr	Instructions/TAT
Part Phone P: Theid Contract:         (223)         527         4527           Field Contract:         Derignin Sievent         (223)         527         4527           Field Contract:         Derignin Sievent         (223)         527         4527           Field Contract:         Derignin Sievent         (223)         527         4527           According:         Lib Manee:         (213)         566         (313)         567           According:         Lib Manee:         Call Laboratories, Lib         (313)         567         (313)           According:         Lib Manee:         Call Laboratories, LLC         Decision         (313)         (313)         (313)           According:         Lib Manee:         Call Laboratories, LLC         Decision         (313)         (313)         (313)         (313)           According:         Lib Manee:         Call Laboratories, LLC         Decision         (313)         (313)         (313)         (313)         (313)         (313)         (313)         (313)         (313)         (314)         (312)         (312)         (312)         (312)         (313)         (313)         (313)         (313)         (314)         (314)         (314)         (314)         (315)	Address:	2121 N. California Blv		Project Manas	+	rischi						L		-				P		-
Particle		Suite 600		PM Phone #:	(825)	627-4627		-									10		Numeric	ru. Inicel velue
Contract		Walnut Creek		Field Contact:		min Stewar	**	_	•					-	_		110			analyses equate to turn around time in days
SAOCze ph 25/M6520.002         ILab Matrine:         CEL Laboratorica, LLD         Lab Matrine:         CEL Laboratorica, LLD         Lab Matrine:         CEL Laboratorica, LLD         Date         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n <td></td> <td>હ</td> <td></td> <td>Field Contact</td> <td></td> <td>266-1378</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>- Nu</td> <td>rat</td> <td>й н</td> <td>Ş</td>		હ		Field Contact		266-1378		_							-		- Nu	rat	й н	Ş
Cor ph 2NM65/00 Start Crutient         Inc.		94596		Lab Name:	GEL	Laboratories	I, LLC	_					-					-		EH - Extract/Extrude & Hold
Mitglobal.com         Lab Address:         2000 Savage Road           Mitglobal.com         Lab Address:         2000 Savage Road           I. Lab Address:         2000 Savage Road         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td< td=""><td>Email:</td><td>sarah.vonraesfeld@m</td><td></td><td>Lab Contact:</td><td>Jack</td><td>e Trudell</td><td></td><td>-</td><td>D</td><td></td><td></td><td></td><td>P</td><td></td><td></td><td>TP</td><td>-</td><td>R</td><td></td><td></td></td<>	Email:	sarah.vonraesfeld@m		Lab Contact:	Jack	e Trudell		-	D				P			TP	-	R		
Charteettin, SC 29407         Charteettin, SC 29407         Charteettin, SC 29407         Charteettin, SC 29407           Itab Phones:         (443) 766-7386         No. of solid         No. of solid <td></td> <td>sean.leffer@mwhglob</td> <td></td> <td>Lab Address:</td> <td>2040</td> <td>Savage Ro</td> <td>pa</td> <td>D2</td> <td></td> <td></td> <td></td> <td></td> <td>CB by</td> <td>-</td> <td></td> <td>H by :</td> <td></td> <td>50</td> <td>Note:</td> <td>Values in</td>		sean.leffer@mwhglob		Lab Address:	2040	Savage Ro	pa	D2					CB by	-		H by :		50	Note:	Values in
Construction         Reactific A         Time         No. of Time         No. of No. of No. of Solid         Lab Phones:         (643) 769-7388         No. of No. of Solid         Lab Phones:         (643) 769-7388         No. of Solid         Solid         Solid         Solid					Charl	eston, SC 2	9407	216					SV			swe	-	0	palled	bellow are Turn Around
Matrix         Date         Time         No. of Containers         Res ( 200         No. of 10         Res ( 10         No. of 10         Res ( 10 <td></td> <td></td> <td></td> <td>Lab Phone:</td> <td>(843)</td> <td>769-7388</td> <td></td> <td>Mois</td> <td></td> <td></td> <td></td> <td></td> <td>/8082</td> <td>_</td> <td>_</td> <td>1015E</td> <td>-</td> <td>0,1</td> <td>times</td> <td>,</td>				Lab Phone:	(843)	769-7388		Mois					/8082	_	_	1015E	-	0,1	times	,
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Soil         8:04         8:022009         11:15         3         5         6         7         2         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5	HZBS0001A	\S002	Sol		8/30/2009	10:12	m	60	5		N I					ŝ	2			
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Sol         8×30/2008         12:40         3         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5	HZBS01785	002	Solt		8/30/2008	11:30	\$	5	5		2					2	2			
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Soil     9/30/2009     13:55     2     5     5     2       Date:     2. Received by:     Date:     3. Relinquished by:     Date:       7-30-09     7-30-09     10/1/09     10/1/09       Time:     Company:     Time:     Company:       10:51     GFL     08/35     Company:       ne for dloxin analysis shipped directly to CFA, sample volume for metals analysis shipped to GEL     Geotraction	HZET0719S	1001	Soil		8/30/2008	13:35	2	ŝ	8	3	-							<b> </b>		
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Sample volume for dloxin analysis shipped directly to CFA, sample volume for metals analysis shipped to GEL	Company: MWH		Time: 16:51	Company:			Time: 0833	Comp	any:				Time:		Com	pany:		-		Time:
Data Validation Package	Comment	s: Sample volume for d	loxin analysis	shipped direct		ample volu	me for metals	maiysis	shipper	1 to GEI				Geotr Data	acker /alidat	EDF Ion Pa	ickage		Level IV	

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	customer information	Project Informa	nation			<b>6</b> 2	ect Infi	Project information	<b>B</b>								
Sitte:	SSFL	Client Name:				Colic	Collector:	A. Gol	A. Goldenberg	B				Boeing PM	PM:		
Company: MWH	MWH -	Sampling Event:		ampling, A	ISRA Sampling, August 2009	То Со	Contact #:								T		
Report to:		Project Number:	r: 1891614.05462	4.05462						Requested Analyses	ted An	alyses				Instruc	Instructions/TAT
Address:	2121 N. California Blvd	Project Manager	ar: Alex Fischi	탱		 T								-			
	Suite 600	PM Phone #:	(925) 627-4627	7-4827		1-										Numeri	Legend: Numerical values for
	Walnut Creek	Field Contact:	Benjami	Benjamin Stewart							5			<b></b>		analyse around	analyses equate to turn around time in days
	CA	Field Contact #:	: (818) 266-1378	8-1378		T	*****						S	_	-	H - Hok	
	94596	Lab Name:	GEL Lat	GEL Laboratories, LLC	TIC	Т							voc		-	H3 H3	EH - Extract/Extrude &
Emall:	sarah.vonraesfeld@rmwnglobal.c	: Lab Contact:	Jackie Trudeli	nudeli			Di				P		s by				
	sean.leffler@mwhglobal.com	Lab Address:	2040 Sa	2040 Savage Road	2	D2		-			B by	·	SW8;			Note: V	alters in the c
			Charlest	Charleston, SC 29407	9407	216					SW		270C			bellow	bellow are Tum Around
		Lab'Phone:	(843) 769-7388	8-7388		Moist					8082		: SIM			1 (17195.	
Sample Name	eu	Ntatrix	Date	1me	No. of Containers	ture Soli	- Water 3B - Soil	Copper	1A - Soi - Water	82 - Sol	- Water	IM - Soi	- Water	BM - Sol	i - Water	Comments	ents
HZET0721S001	001 Sol		8/30/2009	14:05	8	÷	+	┿	╂~-	+	·	<u> </u>	1	+			
HZET0722S001	001 Sol		8/30/2008	14:16	8	6	<b>10</b>	~	┢					╎			
HZET0723S001	001 Solf		8/30/2009	14:25	7	•	<b>1</b> 0	2	┢			-		┢			
HZET0724S001	001 Soll		8/30/2009	13:30	8	10	5	~	╞			┞		╞	Ĺ		
HZET0725S001	001 Sol		9/30/2009	13:25	2	10	2	2	┢		-	┢	Ĺ	┢		-	
	*									ļ					- *	-	
1. Relinquished by:	isthed by: Date:	2. Received by:			Date:	3. Reli	3. Relinquished by:	iyd by:		F	Date:		4. Rec	4. Received by:	Ä		Date:
Allon	Allay of And read	5	Z		60/1/01												
Company: MVAH	Time: 10:51	Company: (サビー			TIME: 0835	Company:	: A			<u> </u>	Time:	<b>-</b>	Company:	iny:			Time:
Commente	Comments: Sample volume for dloxin analysis shipped directly to CFA, sample volume for metals analysis shipped to GEI	sis shipped directly	to CFA, sam	ple volum	e for metals a	nalvais	shimad	to GEI				Genture tou EDE	1				
						•					-	10005		ř		-	

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#### LABORATORY TASK ORDER (LTO) FORM

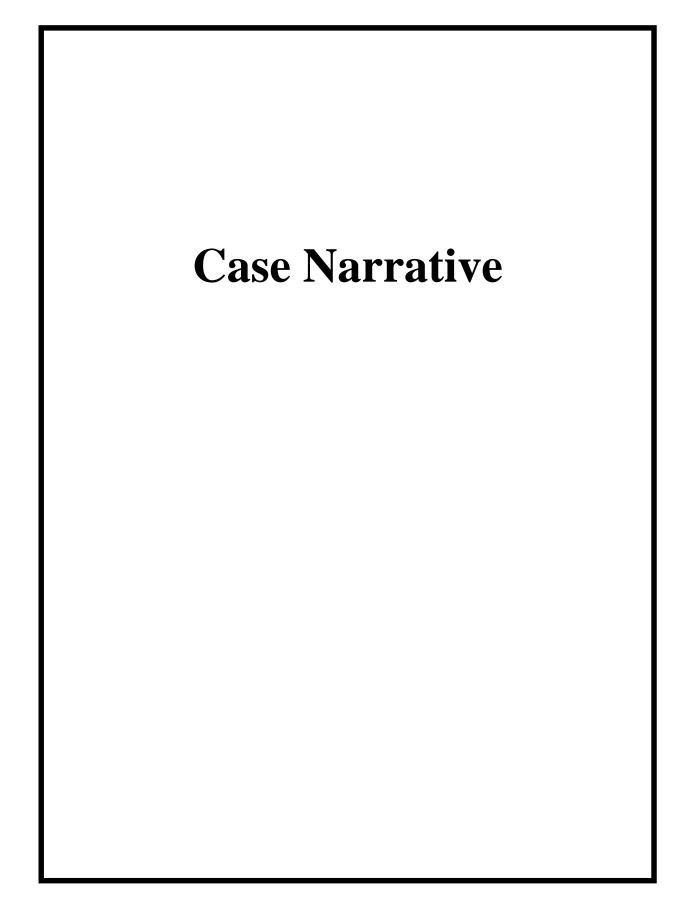
INSTRUCTIONS: To be completed by Environmental Contractor & Emailed to Laboratory Project Manager, CH2M HILL (boeingedms@ch2m.com) & the Data Validator at Least 48 hrs prior to need for sample containers. Project Analytical Laboratory will confirm receipt via E-Mail.

Event Name:	ISRA Sa	ampling, August 2009	Start:	8/24/2009	End:	9/30/2009
LTO DATE:			LTC	NUMBER:		
Consultant Name:		MWH	Contract Laboratory:		GEL	
	2121	N. California Blvd. Ste. 600		20	040 Savage F	Rd.
	W	alnut Creek, CA 94596		Cha	rleston, SC 2	9407
		· · · · · · · · · · · · · · · · · · ·				
Contact Name:		Sarah Von Raesfeld	Lab Contact Name:		Jackie Trude	I
Phone Number:		925-627-4654	Phone Number:		843-769-738	3
Fax Number:		925-627-4501	Fax Number:		843-766-1178	3
E-mail Address:	<u>Sarah</u>	.VonRaesfeld@mwhglobal.com	E-mail Address:	jacque	line.trudell@g	gel.com
		SAMPLE C	ONTAINER ORDER FORM			
Date Required:			<b>Requested Analyses:</b>	(Sp	pecify # of Samp	oles)
			[	Water	Soil	Contingent
			Dioxins (1613B)	15	124	0
Date Sample Pickup:			EPA 8015M (DRO)			
			EPA 8015M (JET FUEL)			
Ship Containers To:			EPA 8015M (CC)			
Project Site		(enter "X")	TCE (8260B)	5	12	0
Consultant Office		(enter "X")	EPA 8270C SIM (SVOC)			
Other Location (specify in			EPA 8310 (PAH)			
comments)		(enter "X")	EPA 8082 (PCB)	3	5	0
			Nickel (6020)	5	10	0
<b>Container Information</b>	:		Chromium (6020)	5	10	0
Trip Blank (VOA only)	No	(Yes/No)	Silver (6020)	5	10	0
Temp Blank (VOA Only)		(Yes/No)	Cadmium (6020)	10	35	0
DI Water Required?	-	(Yes/No)	Arsenic (6020)	5	10	0
MS/MSD Extra Bottles?	No	(Yes/No)	% Moisture (D2216)	0	170	0
		,	Lead (6020)	10	65	0
Sample Matrix:			Copper (6020)	10	75	0
Soil	Х	(select all applicable)	Zinc (6020)	5	20	0
Water	Х	(select all applicable)	Mercury by 7471A/7470A	5	25	0
Vapor		(select all applicable)			1	
	475		10			
Est. Total # of Samples:	175	Est. Total # of EDDs				
Project TAT		LABORATORY R	EPORTING REQUIREMENTS Laboratory Results/Repo	rte Dolivor	ablacy	
Project TAT:	V	(4.2. Descience along)	Draft Results Fax?:	rts Delivera		
Normal:		(10 Business days)	-		(Yes/No)	
RUSH:		(Specify- 24 / 48 / 72HRS)	Draft Results E-mail?:	Yes	(Yes/No)	
Other :		(Specify # of Days)	Specify Fax/E-mail Contact			
Report Due Date:				Sarah.VonRae	sfeld@mwhgloba	al.com
			- Send Original Reports To:			
Special Reporting Rec	uirem	ents:	Project Site		(enter "X")	
Contingent Analysis?	-	(Yes/No)	Consultant Office		(enter "X")	
Contingent Analysis:		_(res/NO)	-		-	
TIC (VOC) Required?		_ (Yes/No)	Other Location (specify			
TIC (SVOC) Required?		(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	OF TRANSMITTAL & RECEIPT			
LTO Sent By:			LTO Received By-			
Name:	Sarah V	on Raesfeld	Name:			
	09/02/09		Date:			
Suio.						

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Case Narrative for Boeing - SSFL (MWH) Work Order: 238180 SDG: 238180

October 27, 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 October 01, 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>
238180001	EBQW2248
238180002	HZBS0081AS001
238180003	HZBS0081AS002
238180004	HZBS0178S001
238180005	HZBS0178S002
238180006	HZBS0179S001
238180007	HZBS0179S002
238180008	HZET0718S001
238180009	HZET0719S001
238180010	HZET0720S001
238180011	HZET0721S001
238180012	HZET0722S001
238180013	HZET0723S001
238180014	HZET0724S001
238180015	HZET0725S001

#### 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.

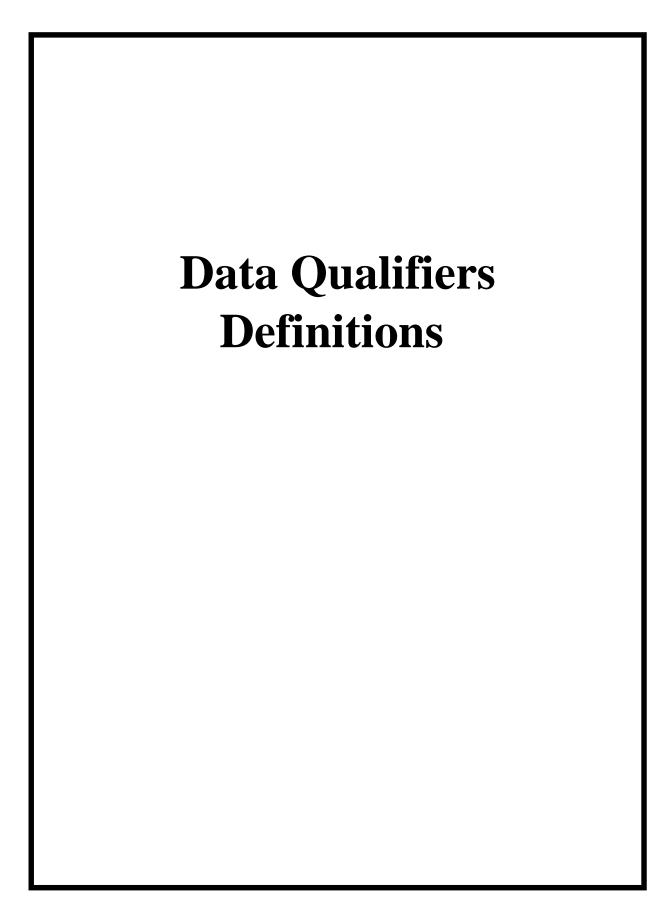
#### **Data Package:**

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, General Chemistry, Metals, Perchlorates by LCMSMS, Percent Moisture and Dioxins (Cape Fear Analytical).

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.

Bacqueline a Judel

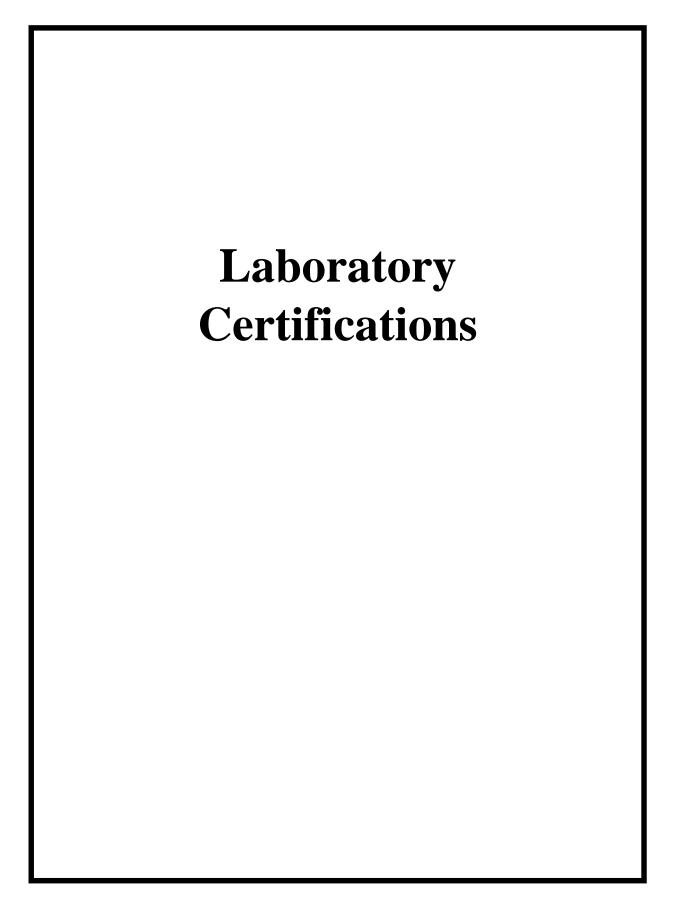
Jacqueline Trudell Project Manager



#### 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 27 October 2009



## DATA VALIDATION REPORT

Boeing SSFL RFI ISRA

SAMPLE DELIVERY GROUP: 238180

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:	238180
Project Manager:	Dixie Hambrick
Matrix:	water/soil
QC Level:	V
No. of Samples:	15
No. of Reanalyses/Dilutions:	0
Laboratory:	GEL

#### Table 1. Sample Identification

Sample Name	Lab Sample Name	Sub-Lab Sample Name	Matrix	Collection	Method
EBQW2248	238180001	1089001	Water	9/30/09 2:45:00 PM	1613B, 6010B, 6020, 7470A, 8015B, 8082, 8270C
HZBS0081AS001	238180002	N/A	Soil	9/30/2009 9:35:00 AM	314.0-DI WET, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0081AS002	238180003	N/A	Soil	9/30/2009 10:12:00 AM	314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0178S001	238180004	1084001	Soil	9/30/2009 11:15:00 AM	1613B, 314.0-DI WET, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0178S002	238180005	1084002	Soil	9/30/2009 11:30:00 AM	1613B, 314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0179S001	238180006	1084003	Soil	9/30/2009 12:40:00 PM	1613B, 314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0179S002	238180007	1084004	Soil	9/30/2009 12:50:00 PM	1613B, 314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZET0718S001	238180008	1084005	Soil	9/30/2009 1:15:00 PM	1613B, 6020
HZET0719S001	238180009	1084006	Soil	9/30/2009 1:35:00 PM	1613B, 6020
HZET0720S001	238180010	1084007	Soil	9/30/2009 1:55:00 PM	1613B, 6020
HZET0721S001	238180011	1084008	Soil	9/30/2009 2:05:00 PM	1613B, 6020

HZET0722S001	238180012	1084009	Soil	9/30/2009	1613B, 6020	
				2:16:00 PM	,	
HZET0723S001	238180013	1084010	Soil	9/30/2009	1613B, 6020	
				2:25:00 PM		
HZET0724S001	238180014	1084011	Soil	9/30/2009	1613B, 6020	
				1:30:00 PM		
HZET0725S001	238180015	1084012	Soil	9/30/2009	1613B, 6020	
				1:25:00 PM		

#### II. Sample Management

No anomalies were observed regarding sample management. One cooler was received as Cape Fear above the temperature limit at 7°C; however, due to the nonvolatile nature of the analytes, no qualifications were required. The remaining samples in this SDG were received at the laboratory within the temperature limits of 4°C  $\pm$ 2°C. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. Custody seals were intact. If necessary, the client ID was added to the sample result summary by the reviewer.

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

#### 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.
М	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 1613—Dioxin/Furans

Reviewed By: P. Meeks Date Reviewed: November 2, 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 (08/02).

- Holding Times: Extraction and analytical holding times were met. The sample was 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: The aqueous method blank had detects below the PQL for 12 target compounds; however, there were no target compounds detected above the EDL in the associated sample. The soil method blank had detects below the PQL for all but five of the target compounds. Detects less than the reporting limit or less than 5x the method blank detect for 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8-HxCDF, and OCDD were qualified as nondetected, "U," at the EDL or the level of contamination. Detected results for all totals except total TCDD were qualified as estimated, "J," due to detects in the soil method blank.
- Blank Spikes and Laboratory Control Samples: Recoveries were within the acceptance criteria listed in Table 6 of Method 1613. The RPDs were within the laboratory-established control limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HZBS0178S001. Recoveries were within the acceptance criteria listed in Table 6 of Method 1613. The 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: FBQW2239 (235913) was the field blank associated with the samples in this SDG; however, the sample was not analyzed for dioxins. EBQW2248 was identified as the equipment rinsate associated with the samples in this SDG. There were no detects above the EDL in this sample.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.

- 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. The laboratory performed confirmation analyses for 2,3,7,8-TCDF. When the original result was reported as an estimated maximum possible concentration (EMPC), the original result was rejected, "R," in favor the confirmation result. When the original result was not reported as an EMPC, or if both the original analysis and the confirmation analysis were both reported as EMPCs, the confirmation result was rejected, "R," in favor of the initial result was rejected.
- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. (EMPCs) were identified in the sample of this SDG, as denoted by the laboratory "K," code. For individual isomers identified as EMPCs, the results were qualified as estimated nondetects, "UJ." Totals reported as EMPCs were qualified as estimated, "J," as only a portion of the total was identified as an EMPC. The laboratory calculated and reported compound-specific detection limits. Any detect below the laboratory lower calibration level was qualified as estimated, "J." Nondetects are valid to the estimated detection limit (EDL).

#### B. EPA METHODS 6010B, 6020, 7470A/7471A—Metals and Mercury

Reviewed By: P. Meeks Date Reviewed: November 2, 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 6010B, 6020, 7470A/7471A, and the National Functional Guidelines for Inorganic Data Review (7/02).

- Holding Times: Analytical holding times, six months for ICP and 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: Arsenic and copper were detected in the aqueous method blank at 1.67 and 0.485 μg/L, respectively and thallium was detected in a bracketing CCB at 0.343 μg/L; therefore, copper, arsenic, and thallium detected in EBQW2248 were qualified as nondetected, "U," at the reporting limit. Mercury was reported in a bracketing CCB at -0.098 μg/L; therefore,

mercury in the soil samples was qualified as estimated, "J," for detects and, "UJ," for nondetects. Method blanks and CCBs had no other applicable detects.

- Interference Check Samples: Review is not applicable at a Level V validation; however, the reviewer noted that antimony and boron were detected in the ICSA at 16.7 and 18.0 µg/L, respectively. Antimony and boron detected in the soil samples were qualified as estimated, "J."
- Blank Spikes and Laboratory Control Samples: Mercury was recovered above the control limit in the aqueous LCS; however, mercury was not detected in the associated sample. All remaining recoveries and all aqueous RPDs were within laboratory-established QC limits.
- Laboratory Duplicates: Laboratory duplicate analyses were performed on HZBS0081AS001. The RPDs for arsenic, barium, beryllium, chromium, copper, lead, nickel, vanadium, and zinc exceeded the control limit; therefore, detects for these analytes were qualified as estimated, "J," in the soil samples.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HZBS0081AS001. All recoveries for copper, lead, and nickel and the cobalt and beryllium MSD recoveries were below the control limit. The cobalt and mercury MS recoveries were above the control limit. Detects for these analytes were qualified as estimated, "J," in the soil samples. RPDs for cobalt and mercury exceeded the control limits; therefore, the results for cobalt and mercury were qualified as estimated, "J," for detects and, "UJ," for nondetects in the soil samples. All remaining recoveries and RPDs were within laboratoryestablished QC limits.
- Serial Dilution: Serial dilution analyses were performed on EBQW2248 with acceptable results. Serial dilution analyses were also performed on HZBS0081AS001. The %Ds for chromium, cobalt, copper, and nickel exceeded the control limit; therefore, detects for these analytes were qualified as estimated, "J," in the soil samples.
- 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. Vanadium in the soil samples was analyzed at a 10x dilution in order to report the analyte within the linear range of the instrument. All remaining soil ICP-MS analytes were reported from the laboratory's standard 2x 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: FBQW2239 (235913) was the field blank and EBQW2248 was the equipment rinsate associated with the samples in this SDG. There were no detects in either sample.
- 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: November 2, 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: Extraction and analytical holding times were met. The aqueous sample was extracted within seven days of collection and the soil samples were extracted within 14 days of collection. All samples were analyzed 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 aqueous method blank at 0.161 µg/L; therefore, bis(2-ethylhexyl)phthalate detected in EBQW2248 was qualified as nondetected, "U," at the reporting limit. The method blanks had no other target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and the aqueous RPDs were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HZBS0081AS001. Recoveries and the aqueous RPDs were within 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: FBQW2239 (235913) was the field blank and EBQW2248 was the equipment rinsate associated with the samples in this SDG. There were no reportable detects in either 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 PAH compounds and added phthalates by Method 8270C low-level.
- 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 METHODS 314.0 and 6850—Perchlorate

Reviewed By: P. Meeks Date Reviewed: November 2, 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 Metals (DVP-20, Rev. 0), EPA Methods 314.0 and 6850, and the National Functional Guidelines for Inorganic Data Review (7/02).

- Holding Times: The analytical holding time, 28 days, was met.
- Calibration: Review is not applicable at a Level V validation.
- Blanks: Method blanks and CCBs had no detects.
- Blank Spikes and Laboratory Control Samples: The recoveries were within the 6850 and 314.0 method-established QC limits of 80-120% and 85-115%, respectively. The recovery for the 6850 LCS was within the laboratory-established control limit.
- Laboratory Duplicates: A laboratory duplicate analysis was performed on HZBS0179S002 for perchlorate by 314.0. The RPD was within the method-established control limit of ≤15%.
- Matrix Spike/Matrix Spike Duplicate: A matrix spike analysis was performed on HZBS0178S001 for perchlorate analyzed by 314.0, the recovery was within the methodestablished control limit of 80-120%. MS/MSD analyses were performed on

HZBS0179S002 for perchlorate analyzed by 6850. Recoveries and RPDs were within method-established QC limits of 80-120% and ≤20%, respectively.

- Sample Result Verification: The sample results reported on the Form I were verified against the raw data. No transcription errors or calculation errors were noted. Reported nondetects are valid to the reporting limit.
- 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: FBQW2239 (235913) was the field blank and EBQW2248 was the equipment rinsate associated with the samples in this SDG. Perchlorate was not detected in either sample.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.

#### E. EPA METHOD 8082—PCBs

Reviewed By: P. Meeks Date Reviewed: November 2, 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: Extraction and analytical holding times were met. The aqueous sample was extracted within seven days of collection and the soil samples were extracted within 14 days of collection. All samples were analyzed within 40 days of extraction.
- 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: 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 HZBS0081AS001. The 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: FBQW2239 (235913) was the field blank and EBQW2248 was the equipment rinsate associated with the samples in this SDG. There were no detects above the MDL in either sample.
  - 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. Although not generally reviewed at Level V validation, the laboratory flagged Aroclor-1254 in HZBS0081AS001 and HZBS0178S001 as having intercolumn %Ds greater than 40%. Both results were qualified as estimated, "J."
- 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.

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

Reviewed By: P. Meeks Date Reviewed: November 2, 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 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 aqueous sample was extracted within seven days of collection and the soil samples were extracted within 14 days of collection. All samples were analyzed within 40 days of extraction.
- Calibration: Review is not applicable at a Level V validation.
- Blanks: Method blanks had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and the aqueous RPD were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HZBS0081AS001. Recoveries and the RPD were within 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: FBQW2239 (235913) was the field blank and EBQW2248 was the equipment rinsate associated with the samples in this SDG. FBQW2239 was not analyzed by 8015 and there were no detects above the MDL in EBQW2248.
  - 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: 238180

Sample Name	EBQW2248		Matrix [	Type: Water	<b>Result Type:</b> Primary Result			
Lab Sample Name:	1089001	Sample I	Date: 9	/30/2009 2:45:00 PM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1,2,3,4,6,7,8-HpCDD	35822469	4.91	23.8	4.91 pg/L	U	U		
1,2,3,4,6,7,8-HpCDF	67562394	2.51	23.8	2.51 pg/L	U	U		
1,2,3,4,7,8,9-HpCDF	55673897	4.89	23.8	4.89 pg/L	U	U		
1,2,3,4,7,8-HxCDD	39227286	2.23	23.8	2.23 pg/L	U	U		
1,2,3,4,7,8-HxCDF	70648269	1.66	23.8	1.66 pg/L	U	U		
1,2,3,6,7,8-HxCDD	57653857	2.38	23.8	2.38 pg/L	U	U		
1,2,3,6,7,8-HxCDF	57117449	1.56	23.8	1.56 pg/L	U	U		
1,2,3,7,8,9-HxCDD	19408743	2.42	23.8	2.42 pg/L	U	U		
1,2,3,7,8,9-HxCDF	72918219	2.89	23.8	2.89 pg/L	U	U		
1,2,3,7,8-PeCDD	40321764	1.6	23.8	1.6 pg/L	U	U		
1,2,3,7,8-PeCDF	57117416	1.23	23.8	1.23 pg/L	U	U		
2,3,4,6,7,8-HxCDF	60851345	1.7	23.8	1.7 pg/L	U	U		
2,3,4,7,8-PeCDF	57117314	1.24	23.8	1.24 pg/L	U	U		
2,3,7,8-TCDD	1746016	1.83	4.76	1.83 pg/L	U	U		
2,3,7,8-TCDF	51207319	1.89	4.76	1.89 pg/L	U	U		
OCDD	3268879	11	47.6	11 pg/L	U	U		
OCDF	39001020	10.7	47.6	10.7 pg/L	U	U		
Total HpCDD	37871004	4.91	23.8	4.91 pg/L	U	U		
Fotal HpCDF	38998753	2.51	23.8	2.51 pg/L	U	U		
Fotal HxCDD	34465468	2.23	23.8	2.23 pg/L	U	U		
Fotal HxCDF	55684941	1.56	23.8	1.56 pg/L	U	U		
Fotal PeCDD	36088229	1.6	23.8	1.6 pg/L	U	U		
Fotal PeCDF	30402154	1.23	23.8	1.23 pg/L	U	U		
Total TCDD	41903575	1.83	4.76	1.83 pg/L	U	U		
Total TCDFs	55722275	1.89	4.76	1.89 pg/L	U	U		

Sample Name	HZBS0178S001		Matrix [	Fype: Soil	<b>Result Type:</b> Primary Result				
Lab Sample Name:	1084001	Sample I	Sample Date: 9/30/2009 11:15:00 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	3.69	3.69	3.69 pg/g	Κ	UJ	*III, RL changed from 3.69 and MDL from 0.416		
,2,3,4,6,7,8-HpCDF	67562394	2.41	2.41	2.41 pg/g	J	U	B, result changed from 0.73 and EDL from 0.183		
1,2,3,4,7,8,9-HpCDF	55673897	0.362	2.41	0.362 pg/g	U	U			
1,2,3,4,7,8-HxCDD	39227286	2.41	2.41	2.41 pg/g	JK	UJ	*III, result changed from 0.37 and MDL from 0.229		
1,2,3,4,7,8-HxCDF	70648269	2.41	2.41	2.41 pg/g	J	U	B, result changed from 0.22 and EDL from 0.202		
1,2,3,6,7,8-HxCDD	57653857	0.262	2.41	0.262 pg/g	U	U			
1,2,3,6,7,8-HxCDF	57117449	2.41	2.41	2.41 pg/g	JK	UJ	*III, result changed from 0.316 and MDL from 0.216		
1,2,3,7,8,9-HxCDD	19408743	0.418	2.41	0.258 pg/g	J	J			
1,2,3,7,8,9-HxCDF	72918219	0.316	2.41	0.316 pg/g	U	U			
1,2,3,7,8-PeCDD	40321764	2.41	2.41	2.41 pg/g	JK	UJ	*III, result changed from 0.247 and MDL from 0.185		
1,2,3,7,8-PeCDF	57117416	2.41	2.41	2.41 pg/g	JK	UJ	*III, result changed from 0.291 and MDL from 0.165		
2,3,4,6,7,8-HxCDF	60851345	0.243	2.41	0.243 pg/g	U	U			
2,3,4,7,8-PeCDF	57117314	0.335	2.41	0.157 pg/g	J	J			
2,3,7,8-TCDD	1746016	0.188	0.482	0.188 pg/g	U	U			
2,3,7,8-TCDF	51207319	0.883	0.963	0.216 pg/g	J	J			
2,3,7,8-TCDF	51207319	0.428	0.482	0.36 pg/g	JK	R	D		
OCDD	3268879	26.3	4.82	0.802 pg/g					
OCDF	39001020	1.68	4.82	0.84 pg/g	J	1			

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37871004	9.35	2.41	0.416 pg/g		1	B, *III
38998753	1.44	2.41	0.183 pg/g	J	J	В
34465468	2.35	2.41	0.229 pg/g	J	J	B, *III
55684941	1.99	2.41	0.202 pg/g	J	J	B, *III
36088229	0.247	2.41	0.185 pg/g	J	J	B, *III
30402154	2.94	2.41	0.101 pg/g		J	B, *III
41903575	0.898	0.482	0.188 pg/g			
55722275	1.74	0.482	0.36 pg/g	В	J	B, *III
	38998753 34465468 55684941 36088229 30402154 41903575	38998753         1.44           34465468         2.35           55684941         1.99           36088229         0.247           30402154         2.94           41903575         0.898	38998753         1.44         2.41           34465468         2.35         2.41           55684941         1.99         2.41           36088229         0.247         2.41           30402154         2.94         2.41           41903575         0.898         0.482	38998753         1.44         2.41         0.183 pg/g           34465468         2.35         2.41         0.229 pg/g           55684941         1.99         2.41         0.202 pg/g           36088229         0.247         2.41         0.185 pg/g           30402154         2.94         2.41         0.101 pg/g           41903575         0.898         0.482         0.188 pg/g	38998753         1.44         2.41         0.183 pg/g         J           34465468         2.35         2.41         0.229 pg/g         J           55684941         1.99         2.41         0.202 pg/g         J           36088229         0.247         2.41         0.185 pg/g         J           30402154         2.94         2.41         0.101 pg/g         J           41903575         0.898         0.482         0.188 pg/g         J	38998753       1.44       2.41       0.183 pg/g       J       J         34465468       2.35       2.41       0.229 pg/g       J       J         55684941       1.99       2.41       0.202 pg/g       J       J         36088229       0.247       2.41       0.185 pg/g       J       J         30402154       2.94       2.41       0.101 pg/g       J         41903575       0.898       0.482       0.188 pg/g       J

Sample Name	HZBS0178S002		Matrix [	Type: Soil	Res	<b>Result Type:</b> Primary Result			
Lab Sample Name:	1084002	Sample	Date: 9	/30/2009 11:30:00 A	M Validation Level: V				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
,2,3,4,6,7,8-HpCDD	35822469	0.46	2.37	0.38 pg/g	J	J			
,2,3,4,6,7,8-HpCDF	67562394	2.37	2.37	2.37 pg/g	J	U	B, result changed from 0.284 and EDL from 0.193		
,2,3,4,7,8,9-HpCDF	55673897	2.37	2.37	2.37 pg/g	JK	UJ	*III, result changed from 0.379 and MDL from 0.361		
1,2,3,4,7,8-HxCDD	39227286	0.242	2.37	0.21 pg/g	J	J			
,2,3,4,7,8-HxCDF	70648269	2.37	2.37	2.37 pg/g	J	U	B, result changed from 0.231 and EDL from 0.147		
,2,3,6,7,8-HxCDD	57653857	0.227	2.37	0.227 pg/g	U	U			
,2,3,6,7,8-HxCDF	57117449	2.37	2.37	2.37 pg/g	JK	UJ	*III, result changed from 0.206 and MDL from 0.152		
,2,3,7,8,9-HxCDD	19408743	2.37	2.37	2.37 pg/g	JK	UJ	*III, result changed from 0.301 and MDL from 0.229		
,2,3,7,8,9-HxCDF	72918219	0.314	2.37	0.21 pg/g	J	J			
,2,3,7,8-PeCDD	40321764	2.37	2.37	2.37 pg/g	JK	UJ	*III, result changed from 0.199 and MDL from 0.145		
1,2,3,7,8-PeCDF	57117416	0.199	2.37	0.122 pg/g	J	J			
2,3,4,6,7,8-HxCDF	60851345	2.37	2.37	2.37 pg/g	JK	UJ	*III, result changed from 0.252 and MDL from 0.156		
2,3,4,7,8-PeCDF	57117314	0.201	2.37	0.12 pg/g	J	J			
2,3,7,8-TCDD	1746016	0.18	0.473	0.18 pg/g	U	U			
2,3,7,8-TCDF	51207319	0.422	0.473	0.199 pg/g	JK	R	D		

OCDD	3268879	4.73	4.73	4.73 pg/g	ЈК	UJ	*III, result changed from 1.67 and MDL from 0.837
OCDF	39001020	0.791	4.73	0.791 pg/g	U	U	
Total HpCDD	37871004	0.46	2.37	0.38 pg/g	J	J	В
Total HpCDF	38998753	0.662	2.37	0.193 pg/g	J	J	B, *III
Total HxCDD	34465468	0.543	2.37	0.21 pg/g	J	J	B, *III
Total HxCDF	55684941	1	2.37	0.147 pg/g	J	J	B, *III
Total PeCDD	36088229	0.199	2.37	0.145 pg/g	J	J	B, *III
Total PeCDF	30402154	0.399	2.37	0.12 pg/g	J	J	В
Total TCDD	41903575	0.18	0.473	0.18 pg/g	U	U	
Total TCDFs	55722275	0.693	0.473	0.199 pg/g	В	J	B, *III

Sample Name	HZBS0179S001		Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	1084003	Sample l	Date: 9	/30/2009 12:40:00 Pl	м	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
,2,3,4,6,7,8-HpCDD	35822469	4.56	2.37	0.388 pg/g			
1,2,3,4,6,7,8-HpCDF	67562394	2.37	2.37	2.37 pg/g	JK	UJ	*III, result changed from 0.676 and MDL from 0.191
,2,3,4,7,8,9-HpCDF	55673897	0.35	2.37	0.35 pg/g	U	U	
,2,3,4,7,8-HxCDD	39227286	0.212	2.37	0.212 pg/g	U	U	
1,2,3,4,7,8-HxCDF	70648269	2.37	2.37	2.37 pg/g	J	U	B, result changed from 0.159 and EDL from 0.143
1,2,3,6,7,8-HxCDD	57653857	2.37	2.37	2.37 pg/g	JK	UJ	*III, result changed from 0.329 and MDL from 0.223
1,2,3,6,7,8-HxCDF	57117449	2.37	2.37	2.37 pg/g	JK	UJ	*III, result changed from 0.218 and MDL from 0.148
1,2,3,7,8,9-HxCDD	19408743	2.37	2.37	2.37 pg/g	JK	UJ	*III, result changed from 0.401 and MDL from 0.229
,2,3,7,8,9-HxCDF	72918219	0.222	2.37	0.222 pg/g	U	U	
1,2,3,7,8-PeCDD	40321764	2.37	2.37	2.37 pg/g	JK	UJ	*III, result changed from 0.182 and MDL from 0.172
,2,3,7,8-PeCDF	57117416	0.193	2.37	0.193 pg/g	U	U	
2,3,4,6,7,8-HxCDF	60851345	2.37	2.37	2.37 pg/g	JK	UJ	*III, result changed from 0.184 and MDL from 0.158
2,3,4,7,8-PeCDF	57117314	0.309	2.37	0.171 pg/g	J	J	
2,3,7,8-TCDD	1746016	0.161	0.473	0.161 pg/g	U	U	
2,3,7,8-TCDF	51207319	0.564	0.473	0.275 pg/g		R	D
2,3,7,8-TCDF	51207319	0.625	0.947	0.159 pg/g	J	J	
OCDD	3268879	28.6	4.73	0.765 pg/g			
OCDF	39001020	1.28	4.73	0.719 pg/g	J	J	

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Sample Name	HZBS0179S002		Matrix T	ype: Soil		<b>Result Type:</b>	Primary Result
Total TCDFs	55722275	2.27	0.473	0.275 pg/g	В	1	В
Total TCDD	41903575	0.252	0.473	0.161 pg/g	J	1	
Total PeCDF	30402154	2.78	2.37	0.0869 pg/g		1	В
Total PeCDD	36088229	0.399	2.37	0.172 pg/g	J	1	B, *III
Total HxCDF	55684941	1.85	2.37	0.143 pg/g	J	1	B, *III
Total HxCDD	34465468	2.5	2.37	0.212 pg/g		1	B, *III
Total HpCDF	38998753	1.41	2.37	0.191 pg/g	J	1	B, *III
Total HpCDD	37871004	11.9	2.37	0.388 pg/g		J	В

Lab Sample Name:

1084004

Sample Date: 9/30/2009 12:50:00 PM

Validation Level: V

Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	0.429	4.55	0.429 pg/g	U	U	
1,2,3,4,6,7,8-HpCDF	67562394	0.2	4.55	0.2 pg/g	U	U	
1,2,3,4,7,8,9-HpCDF	55673897	0.388	4.55	0.388 pg/g	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.222	4.55	0.222 pg/g	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.142	4.55	0.142 pg/g	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.244	4.55	0.244 pg/g	U	U	
1,2,3,6,7,8-HxCDF	57117449	0.142	4.55	0.142 pg/g	U	U	
1,2,3,7,8,9-HxCDD	19408743	0.244	4.55	0.244 pg/g	U	U	
1,2,3,7,8,9-HxCDF	72918219	0.22	4.55	0.22 pg/g	U	U	
1,2,3,7,8-PeCDD	40321764	0.146	4.55	0.146 pg/g	U	U	
1,2,3,7,8-PeCDF	57117416	0.115	4.55	0.115 pg/g	U	U	
2,3,4,6,7,8-HxCDF	60851345	0.152	4.55	0.152 pg/g	U	U	
2,3,4,7,8-PeCDF	57117314	0.12	4.55	0.12 pg/g	U	U	
2,3,7,8-TCDD	1746016	0.175	0.91	0.175 pg/g	U	U	
2,3,7,8-TCDF	51207319	0.322	0.91	0.209 pg/g	JK	R	D
2,3,7,8-TCDF	51207319	0.413	0.91	0.149 pg/g	J	J	
OCDD	3268879	0.906	9.1	0.906 pg/g	U	U	
OCDF	39001020	0.863	9.1	0.863 pg/g	U	U	
Total HpCDD	37871004	0.429		0.429 pg/g	U	U	
Total HpCDF	38998753	0.2		0.2 pg/g	U	U	
Total HxCDD	34465468	0.222		0.222 pg/g	U	U	
Total HxCDF	55684941	0.142		0.142 pg/g	U	U	
Total PeCDD	36088229	0.146		0.146 pg/g	U	U	
Total PeCDF	30402154	0.115		0.115 pg/g	U	U	
Total TCDD	41903575	0.175		0.175 pg/g	U	U	
Total TCDFs	55722275	0.604		0.209 pg/g	В	J	B, *III

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Sample Name	HZET0718S001		Matrix [	<b>Fype:</b> Soil	Res	ult Type: Pr	imary Result	
Lab Sample Name:	1084005	Sample Date: 9/30/2009 1:15:00 PM			Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1,2,3,4,6,7,8-HpCDD	35822469	158	3.85	0.863 pg/g				
1,2,3,4,6,7,8-HpCDF	67562394	17.3	3.85	0.202 pg/g				
1,2,3,4,7,8,9-HpCDF	55673897	1.03	3.85	0.389 pg/g	J	J		
1,2,3,4,7,8-HxCDD	39227286	1.34	3.85	0.272 pg/g	J	J		
1,2,3,4,7,8-HxCDF	70648269	3.85	3.85	3.85 pg/g	J	U	B, result changed from 1.52 and EDL from 0.222	
1,2,3,6,7,8-HxCDD	57653857	5.11	3.85	0.303 pg/g				
1,2,3,6,7,8-HxCDF	57117449	1.15	3.85	0.231 pg/g	J	J		
1,2,3,7,8,9-HxCDD	19408743	2.44	3.85	0.302 pg/g	J	J		
1,2,3,7,8,9-HxCDF	72918219	0.814	3.85	0.283 pg/g	J	J		
1,2,3,7,8-PeCDD	40321764	3.85	3.85	3.85 pg/g	JK	UJ	*III, result changed from 0.825 and MDL from 0.151	
1,2,3,7,8-PeCDF	57117416	1.3	3.85	0.171 pg/g	J	J		
2,3,4,6,7,8-HxCDF	60851345	1.09	3.85	0.239 pg/g	J	J		
2,3,4,7,8-PeCDF	57117314	1.13	3.85	0.163 pg/g	J	J		
2,3,7,8-TCDD	1746016	0.157	0.77	0.157 pg/g	U	U		
2,3,7,8-TCDF	51207319	1.23	0.77	0.3 pg/g				
2,3,7,8-TCDF	51207319	0.774	0.77	0.15 pg/g		R	D	
OCDD	3268879	2550	7.7	1.19 pg/g				
OCDF	39001020	64.8	7.7	0.5 pg/g				
Total HpCDD	37871004	574		0.863 pg/g		J	В	
Total HpCDF	38998753	57.2		0.202 pg/g		J	В	
Total HxCDD	34465468	36.3		0.272 pg/g		J	В	
Total HxCDF	55684941	28.2		0.222 pg/g		J	В	
Total PeCDD	36088229	4.41		0.151 pg/g		J	B, *III	
Total PeCDF	30402154	15.2		0.0791 pg/g		J	В	
Total TCDD	41903575	0.223		0.157 pg/g				
Total TCDFs	55722275	6.06		0.3 pg/g	В	J	В	

Sample Name	HZET0719S001		Matrix 7	Fype: Soil	Result Type: Primary Result				
Lab Sample Name:	1084006	Sample	Date: 9	/30/2009 1:35:00 PM	, v	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	3.82	4.33	0.369 pg/g	J	J			
1,2,3,4,6,7,8-HpCDF	67562394	4.33	4.33	4.33 pg/g	J	U	B, result changed from 0.516 and EDL from 0.184		
1,2,3,4,7,8,9-HpCDF	55673897	0.357	4.33	0.357 pg/g	U	U			
1,2,3,4,7,8-HxCDD	39227286	0.197	4.33	0.197 pg/g	U	U			
1,2,3,4,7,8-HxCDF	70648269	0.141	4.33	0.141 pg/g	U	U			
1,2,3,6,7,8-HxCDD	57653857	0.213	4.33	0.213 pg/g	U	U			
1,2,3,6,7,8-HxCDF	57117449	0.142	4.33	0.142 pg/g	U	U			
1,2,3,7,8,9-HxCDD	19408743	0.216	4.33	0.216 pg/g	U	U			
1,2,3,7,8,9-HxCDF	72918219	0.209	4.33	0.209 pg/g	U	U			
1,2,3,7,8-PeCDD	40321764	0.14	4.33	0.14 pg/g	U	U			
1,2,3,7,8-PeCDF	57117416	0.109	4.33	0.109 pg/g	U	U			
2,3,4,6,7,8-HxCDF	60851345	0.144	4.33	0.144 pg/g	U	U			
2,3,4,7,8-PeCDF	57117314	0.107	4.33	0.107 pg/g	U	U			
2,3,7,8-TCDD	1746016	0.152	0.866	0.152 pg/g	U	U			
2,3,7,8-TCDF	51207319	0.362	0.866	0.133 pg/g	JK	R	D		
2,3,7,8-TCDF	51207319	0.866	0.866	0.866 pg/g	JK	UJ	*III, result changed from 0.334 and MDL from 0.199		
OCDD	3268879	41.4	8.66	0.741 pg/g					
OCDF	39001020	2.11	8.66	0.76 pg/g	J	J			
Total HpCDD	37871004	11.4		0.369 pg/g		J	В		
Total HpCDF	38998753	1.6		0.184 pg/g		J	В		
Total HxCDD	34465468	0.779		0.197 pg/g		J	В		
Total HxCDF	55684941	0.431		0.141 pg/g		J	В		
Total PeCDD	36088229	0.14		0.14 pg/g	U	U			
Total PeCDF	30402154	0.084		0.084 pg/g	U	U			
Total TCDD	41903575	0.152		0.152 pg/g	U	U			
Total TCDFs	55722275	0.576		0.199 pg/g	В	J	В, *Ш		

Sample Name	HZET0720S001		Matrix [	Fype: Soil	Result Type: Primary Result				
Lab Sample Name:	1084007	Sample I	Date: 9	/30/2009 1:55:00 PM	<b>T</b>	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	4.5	4.5	4.5 pg/g	JK	UJ	*III, result changed from 0.443 and MDL from 0.439		
1,2,3,4,6,7,8-HpCDF	67562394	0.18	4.5	0.18 pg/g	U	U			
1,2,3,4,7,8,9-HpCDF	55673897	0.338	4.5	0.338 pg/g	U	U			
1,2,3,4,7,8-HxCDD	39227286	0.185	4.5	0.185 pg/g	U	U			
1,2,3,4,7,8-HxCDF	70648269	0.132	4.5	0.132 pg/g	U	U			
1,2,3,6,7,8-HxCDD	57653857	0.203	4.5	0.203 pg/g	U	U			
1,2,3,6,7,8-HxCDF	57117449	0.136	4.5	0.136 pg/g	U	U			
1,2,3,7,8,9-HxCDD	19408743	0.203	4.5	0.203 pg/g	U	U			
1,2,3,7,8,9-HxCDF	72918219	0.203	4.5	0.203 pg/g	U	U			
1,2,3,7,8-PeCDD	40321764	0.138	4.5	0.138 pg/g	U	U			
1,2,3,7,8-PeCDF	57117416	0.113	4.5	0.113 pg/g	U	U			
2,3,4,6,7,8-HxCDF	60851345	0.146	4.5	0.146 pg/g	U	U			
2,3,4,7,8-PeCDF	57117314	0.114	4.5	0.114 pg/g	U	U			
2,3,7,8-TCDD	1746016	0.164	0.9	0.164 pg/g	U	U			
2,3,7,8-TCDF	51207319	0.369	0.9	0.189 pg/g	J	J			
2,3,7,8-TCDF	51207319	0.438	0.9	0.149 pg/g	J	R	D		
OCDD	3268879	9	9	9 pg/g	J	U	B, result changed from 3.21 and EDL from 0.825		
OCDF	39001020	0.798	9	0.798 pg/g	U	U			
Total HpCDD	37871004	1.18		0.439 pg/g		J	B, *Ⅲ		
Total HpCDF	38998753	0.18		0.18 pg/g	U	U			
Total HxCDD	34465468	0.185		0.185 pg/g	U	U			
Total HxCDF	55684941	0.132		0.132 pg/g	U	U			
Total PeCDD	36088229	0.138		0.138 pg/g	U	U			
Total PeCDF	30402154	0.113		0.113 pg/g	U	U			
Total TCDD	41903575	0.164		0.164 pg/g	U	U			
Total TCDFs	55722275	0.652		0.189 pg/g	В	J	В		

Sample Name	HZET0721S001		Matrix '	721S001 Matrix Type: Soil							
Lab Sample Name:	1084008	Sample 1	Date: 9	/30/2009 2:05:00 PM	Validation Level: V						
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes				
1,2,3,4,6,7,8-HpCDD	35822469	4.41	4.41	4.41 pg/g	ЈК	UJ	*III, result changed from 0.494 and MDL from 0.431				
1,2,3,4,6,7,8-HpCDF	67562394	0.208	4.41	0.208 pg/g	U	U					
1,2,3,4,7,8,9-HpCDF	55673897	0.396	4.41	0.396 pg/g	U	U					
1,2,3,4,7,8-HxCDD	39227286	0.208	4.41	0.208 pg/g	U	U					
1,2,3,4,7,8-HxCDF	70648269	0.136	4.41	0.136 pg/g	U	U					
1,2,3,6,7,8-HxCDD	57653857	0.244	4.41	0.244 pg/g	U	U					
1,2,3,6,7,8-HxCDF	57117449	0.145	4.41	0.145 pg/g	U	U					
1,2,3,7,8,9-HxCDD	19408743	0.237	4.41	0.237 pg/g	U	U					
1,2,3,7,8,9-HxCDF	72918219	0.217	4.41	0.217 pg/g	U	U					
1,2,3,7,8-PeCDD	40321764	0.166	4.41	0.166 pg/g	U	U					
1,2,3,7,8-PeCDF	57117416	0.138	4.41	0.138 pg/g	U	U					
2,3,4,6,7,8-HxCDF	60851345	0.151	4.41	0.151 pg/g	U	U					
2,3,4,7,8-PeCDF	57117314	0.127	4.41	0.127 pg/g	U	U					
2,3,7,8-TCDD	1746016	0.187	0.883	0.187 pg/g	U	U					
2,3,7,8-TCDF	51207319	0.33	0.883	0.208 pg/g	JK	R	D				
2,3,7,8-TCDF	51207319	0.396	0.883	0.146 pg/g	J	J					
OCDD	3268879	8.83	8.83	8.83 pg/g	J	U	B, result changed from 3.08 and EDL from 0.848				
OCDF	39001020	0.8	8.83	0.8 pg/g	U	U					
Total HpCDD	37871004	1.03		0.431 pg/g		J	B, *III				
Total HpCDF	38998753	0.208		0.208 pg/g	U	U					
Total HxCDD	34465468	0.208		0.208 pg/g	U	U					
Fotal HxCDF	55684941	0.136		0.136 pg/g	U	U					
Total PeCDD	36088229	0.166		0.166 pg/g	U	U					
Total PeCDF	30402154	0.127		0.127 pg/g	U	U					
Total TCDD	41903575	0.187		0.187 pg/g	U	U					
Total TCDFs	55722275	0.705		0.208 pg/g	В	J	B, *III				

Sample Name	HZET0722S001		Matrix 7	Type: Soil	<b>Result Type:</b> Primary Result			
Lab Sample Name:	1084009	Sample	Date: 9	/30/2009 2:16:00 PM	t t	Validation Le	evel: 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	1.95	4.46	0.503 pg/g	J	J		
1,2,3,4,6,7,8-HpCDF	67562394	4.46	4.46	4.46 pg/g	J	U	B, result changed from 0.63 and EDL from 0.23	
1,2,3,4,7,8,9-HpCDF	55673897	0.466	4.46	0.466 pg/g	U	U		
1,2,3,4,7,8-HxCDD	39227286	0.219	4.46	0.219 pg/g	U	U		
1,2,3,4,7,8-HxCDF	70648269	4.46	4.46	4.46 pg/g	ЈК	UJ	*III, result changed from 0.239 and MDL from 0.146	
1,2,3,6,7,8-HxCDD	57653857	0.243	4.46	0.243 pg/g	U	U		
1,2,3,6,7,8-HxCDF	57117449	0.158	4.46	0.158 pg/g	U	U		
1,2,3,7,8,9-HxCDD	19408743	0.243	4.46	0.243 pg/g	U	U		
1,2,3,7,8,9-HxCDF	72918219	0.209	4.46	0.209 pg/g	U	U		
1,2,3,7,8-PeCDD	40321764	0.182	4.46	0.182 pg/g	U	U		
1,2,3,7,8-PeCDF	57117416	4.46	4.46	4.46 pg/g	JK	UJ	*III, result changed from 0.203 and MDL from 0.157	
2,3,4,6,7,8-HxCDF	60851345	0.209	4.46	0.154 pg/g	J	J		
2,3,4,7,8-PeCDF	57117314	4.46	4.46	4.46 pg/g	JK	UJ	*III, result changed from 0.214 and EDL from 0.154	
2,3,7,8-TCDD	1746016	0.186	0.892	0.186 pg/g	U	U		
2,3,7,8-TCDF	51207319	0.325	0.892	0.117 pg/g	J	J		
2,3,7,8-TCDF	51207319	0.325	0.892	0.202 pg/g	JK	R	D	
OCDD	3268879	36.8	8.92	1.32 pg/g				
OCDF	39001020	1.63	8.92	0.912 pg/g	J	J		
Total HpCDD	37871004	9.3		0.503 pg/g		J	В	
Total HpCDF	38998753	1.46		0.23 pg/g		J	В	
Total HxCDD	34465468	0.219		0.219 pg/g	U	U		
Total HxCDF	55684941	1.37		0.146 pg/g		J	B, *III	
Total PeCDD	36088229	0.182		0.182 pg/g	U	U		
Total PeCDF	30402154	0.55		0.104 pg/g		J	B, *III	
Total TCDD	41903575	0.186		0.186 pg/g	U	U		

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Total TCDFs	55722275	0.576		0.202 pg/g	В	J	B, *III
Sample Name	HZET0723S001		Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	1084010	Sample	Date: 9	/30/2009 2:25:00 PM	г <b>т</b>	alidation Le	evel: 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	4.32	4.32	4.32 pg/g	JK	UJ	*III, result changed from 1.48 and EDL from 0.846
1,2,3,4,6,7,8-HpCDF	67562394	4.32	4.32	4.32 pg/g	J	U	B, result changed from 0.47 and EDL from 0.364
1,2,3,4,7,8,9-HpCDF	55673897	0.82	4.32	0.82 pg/g	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.371	4.32	0.371 pg/g	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.254	4.32	0.254 pg/g	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.411	4.32	0.411 pg/g	U	U	
1,2,3,6,7,8-HxCDF	57117449	0.257	4.32	0.257 pg/g	U	U	
1,2,3,7,8,9-HxCDD	19408743	0.409	4.32	0.409 pg/g	U	U	
1,2,3,7,8,9-HxCDF	72918219	0.425	4.32	0.425 pg/g	U	U	
1,2,3,7,8-PeCDD	40321764	0.278	4.32	0.278 pg/g	U	U	
1,2,3,7,8-PeCDF	57117416	0.216	4.32	0.216 pg/g	U	U	
2,3,4,6,7,8-HxCDF	60851345	0.278	4.32	0.278 pg/g	U	U	
2,3,4,7,8-PeCDF	57117314	0.211	4.32	0.211 pg/g	U	U	
2,3,7,8-TCDD	1746016	0.299	0.863	0.299 pg/g	U	U	
2,3,7,8-TCDF	51207319	0.385	0.863	0.15 pg/g	J	J	
2,3,7,8-TCDF	51207319	0.468	0.863	0.359 pg/g	JK	R	D
OCDD	3268879	14.9	8.63	2.3 pg/g			
OCDF	39001020	1.76	8.63	1.76 pg/g	U	U	
Total HpCDD	37871004	4.7		0.846 pg/g		J	B, *III
Total HpCDF	38998753	1.04		0.364 pg/g		J	В
Total HxCDD	34465468	0.371		0.371 pg/g	U	U	
Fotal HxCDF	55684941	0.254		0.254 pg/g	U	U	
Total PeCDD	36088229	0.278		0.278 pg/g	U	U	
Total PeCDF	30402154	0.173		0.173 pg/g	U	U	
Total TCDD	41903575	0.299		0.299 pg/g	U	U	
Total TCDFs	55722275	0.468		0.359 pg/g	В	J	B, *III

Sample Name	HZET0724S001		Matrix	Type: Soil	Res	ult Type: Prin	nary Result	
Lab Sample Name:	1084011	Sample	Date: 9	9/30/2009 1:30:00 PM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1,2,3,4,6,7,8-HpCDD	35822469	1.01	4.66	1.01 pg/g	U	U		
1,2,3,4,6,7,8-HpCDF	67562394	0.522	4.66	0.522 pg/g	U	U		
1,2,3,4,7,8,9-HpCDF	55673897	1.09	4.66	1.09 pg/g	U	U		
1,2,3,4,7,8-HxCDD	39227286	0.516	4.66	0.516 pg/g	U	U		
1,2,3,4,7,8-HxCDF	70648269	0.308	4.66	0.308 pg/g	U	U		
1,2,3,6,7,8-HxCDD	57653857	0.552	4.66	0.552 pg/g	U	U		
1,2,3,6,7,8-HxCDF	57117449	0.306	4.66	0.306 pg/g	U	U		
1,2,3,7,8,9-HxCDD	19408743	0.561	4.66	0.561 pg/g	U	U		
1,2,3,7,8,9-HxCDF	72918219	0.503	4.66	0.503 pg/g	U	U		
1,2,3,7,8-PeCDD	40321764	0.384	4.66	0.384 pg/g	U	U		
1,2,3,7,8-PeCDF	57117416	0.233	4.66	0.233 pg/g	U	U		
2,3,4,6,7,8-HxCDF	60851345	0.328	4.66	0.328 pg/g	U	U		
2,3,4,7,8-PeCDF	57117314	0.235	4.66	0.235 pg/g	U	U		
2,3,7,8-TCDD	1746016	0.362	0.932	0.362 pg/g	U	U		
2,3,7,8-TCDF	51207319	0.406	0.932	0.406 pg/g	U	U		
OCDD	3268879	2.46	9.32	2.46 pg/g	U	U		
OCDF	39001020	2.29	9.32	2.29 pg/g	U	U		
Total HpCDD	37871004	1.01		1.01 pg/g	U	U		
Total HpCDF	38998753	0.522		0.522 pg/g	U	U		
Total HxCDD	34465468	0.516		0.516 pg/g	U	U		
Total HxCDF	55684941	0.306		0.306 pg/g	U	U		
Total PeCDD	36088229	0.384		0.384 pg/g	U	U		
Total PeCDF	30402154	0.233		0.233 pg/g	U	U		
Total TCDD	41903575	0.362		0.362 pg/g	U	U		
Total TCDFs	55722275	0.406		0.406 pg/g	U	U		

Sample Name	HZET0725S001		Matrix '	Fype: Soil	Result Type: Primary Result				
Lab Sample Name:	1084012	Sample Date: 9/30/2009 1:25:00 PM				Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
1,2,3,4,6,7,8-HpCDD	35822469	7.3	4.49	0.683 pg/g					
1,2,3,4,6,7,8-HpCDF	67562394	4.49	4.49	4.49 pg/g	JK	UJ	*III, result changed from 1.04 and EDL from 0.338		
1,2,3,4,7,8,9-HpCDF	55673897	0.662	4.49	0.662 pg/g	U	U			
1,2,3,4,7,8-HxCDD	39227286	0.37	4.49	0.334 pg/g	J	J			
1,2,3,4,7,8-HxCDF	70648269	0.262	4.49	0.262 pg/g	U	U			
1,2,3,6,7,8-HxCDD	57653857	0.347	4.49	0.347 pg/g	U	U			
1,2,3,6,7,8-HxCDF	57117449	0.259	4.49	0.259 pg/g	U	U			
1,2,3,7,8,9-HxCDD	19408743	0.467	4.49	0.358 pg/g	J	J			
1,2,3,7,8,9-HxCDF	72918219	0.424	4.49	0.424 pg/g	U	U			
1,2,3,7,8-PeCDD	40321764	0.244	4.49	0.244 pg/g	U	U			
1,2,3,7,8-PeCDF	57117416	0.223	4.49	0.223 pg/g	U	U			
2,3,4,6,7,8-HxCDF	60851345	0.279	4.49	0.279 pg/g	U	U			
2,3,4,7,8-PeCDF	57117314	0.227	4.49	0.227 pg/g	U	U			
2,3,7,8-TCDD	1746016	0.232	0.899	0.232 pg/g	U	U			
2,3,7,8-TCDF	51207319	0.41	0.899	0.307 pg/g	J	J			
2,3,7,8-TCDF	51207319	0.381	0.899	0.138 pg/g	JK	R	D		
OCDD	3268879	122	8.99	1.63 pg/g					
OCDF	39001020	3.69	8.99	1.47 pg/g	J	J			
Total HpCDD	37871004	22.9		0.683 pg/g		J	В		
Total HpCDF	38998753	2.21		0.338 pg/g		J	B, *III		
Total HxCDD	34465468	2.03		0.334 pg/g		J	В		
Total HxCDF	55684941	0.768		0.259 pg/g		J	В		
Total PeCDD	36088229	0.244		0.244 pg/g	U	U			
Total PeCDF	30402154	0.268		0.151 pg/g		J	В		
Total TCDD	41903575	0.232		0.232 pg/g	U	U			
Total TCDFs	55722275	0.888		0.307 pg/g	В	J	В		

		1	Madada 7	<b>F</b>	Soil	D	-14 T Dr	imany Pagult		
Sample Name	HZBS0081AS00									
Lab Sample Name:	238180002	Sample	Date: 9/	30/2009	9:35:00 AM	Validation Level: V				
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
Perchlorate	14797730	20	20		5 ug/L	U	U			
Sample Name	HZBS0081AS00	2	Matrix 7	Гуре: 5	Soil	Result Type: Primary Result				
Lab Sample Name:	238180003	Sample	Date: 9/	30/2009	10:12:00 AN	м у	1 Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
Perchlorate	14797730	4	4		1 ug/L	U	U			
Sample Name	HZBS0178S001		Matrix Type: Soil Result Type: Primary R							
Lab Sample Name:	238180004	Sample Date:         9/30/2009 11:15:00 AM         Validation Level:         V								
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
Perchlorate	14797730	20	20		5 ug/L	U	U			
Sample Name	HZBS0178S002	Matrix Type: Soil Result Type: Primary Result						imary Result		
Lab Sample Name:	238180005	Sample Date: 9/30/2009 11:30:00 AM Validation Level:						vel: V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
Perchlorate	14797730	4	4		1 ug/L	U	U			
Sample Name	HZBS0179S001	Matrix Type: Soil Result Type: Primary Res						imary Result		
Lab Sample Name:	238180006	Sample Date: 9/30/2009 12:40:00 PM Validation Level: V						vel: V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
Perchlorate	14797730	4	4		1 ug/L	U	U			
Sample Name	HZBS0179S002		Matrix 7	Гуре: 5	Soil	Rest	ult Type: Pr	imary Result		
Lab Sample Name:	238180007	<b>Sample Date:</b> 9/30/2009 12:50:00 PM <b>Validation Level:</b> V						vel: V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
Perchlorate	14797730	4	4		1 ug/L	U	U			

### Analysis Method 314.0-DI WET

Sample Name	EBQW2248		Matrix 7	Type: Water	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238180001         Sample Date:         9/30/2009 2:45:00 PM         Validation Level:							
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	68	200	68 ug/L	U	U		
Antimony	7440360	3	10	3 ug/L	U	U		
Boron	7440428	15	50	15 ug/L	U	U		
Sample Name	HZBS0081AS00	01 Matrix Type: Soil		Result Type: Primary Result				
Lab Sample Name:	238180002	Sample Date: 9/30/2009 9:35:00 AM		Validation Level: V				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	15300	19.8	6.72 mg/kg				
Antimony	7440360	2.57	0.988	0.326 mg/kg		J	I	
Boron	7440428	4.22	4.94	0.988 mg/kg	J	1	Ι	
Sample Name	HZBS0081AS00	2	Matrix 7	<b>Fype:</b> Soil	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238180003	Sample	Date: 9	/30/2009 10:12:00 A	M Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	15500	20.6	7 mg/kg				
Antimony	7440360	2.02	1.03	0.34 mg/kg		J	I	
Boron	7440428	3.16	5.15	1.03 mg/kg	J	J	Ι	
Sample Name	HZBS0178S001	Matrix Type: Soil		Result Type: Primary Result				
Lab Sample Name:	238180004	Sample	Date: 9/	/30/2009 11:15:00 A	M Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	10800	20.3	6.89 mg/kg				
Antimony	7440360	1.12	1.01	0.334 mg/kg		J	Ι	
Boron	7440428	3.47	5.07	1.01 mg/kg	J	J	Ι	
Sample Name	HZBS0178S002		Matrix 7	<b>Fype:</b> Soil	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238180005	Sample Date: 9/30/2009 11:30:00 Al			M Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	16100	21.2	7.21 mg/kg				
Aluminum Antimony	7429905 7440360	16100 2.33	21.2 1.06	7.21 mg/kg 0.35 mg/kg		J	I	

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Sample Name	HZBS0179S001		Matrix [	Fype: Soil	<b>Result Type:</b> Primary Result			
Lab Sample Name:	238180006	Sample	Date: 9	Validation Level: $V$				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	10400	19.4	6.61 mg/kg				
Antimony	7440360	1.97	0.972	0.321 mg/kg		J	I	
Boron	7440428	3.73	4.86	0.972 mg/kg	J	J	Ι	
Sample Name	HZBS0179S002	Matrix Type: Soil Result Type: Primary Result						
Lab Sample Name:	238180007	Sample	Date: 9	/30/2009 12:50:00 PM	M Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	12600	20	6.8 mg/kg				
Antimony	7440360	2.19	1	0.33 mg/kg		J	Ι	

Sample Name	EBQW2248		Matrix 7	Type: Water	Result Type: Primary Result Validation Level: V			
Lab Sample Name: Analyte	238180001 CAS No	Sample	Date: 9	/30/2009 2:45:00 PN				
		Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Arsenic	7440382	5	5	5 ug/L	J	U	B, result changed from 3.1 and MDL from 1.6	
Barium	7440393	0.6	2	0.6 ug/L	U	U		
Beryllium	7440417	0.1	0.5	0.1 ug/L	U	U		
Cadmium	7440439	0.11	1	0.11 ug/L	U	U		
Chromium	7440473	2	10	2 ug/L	U	U		
Cobalt	7440484	0.1	1	0.1 ug/L	U	U		
Copper	7440508	1	1	1 ug/L	J	U	B, result changed from 0.399 and MDL from 0.33	
Lead	7439921	0.5	2	0.5 ug/L	U	U		
Molybdenum	7439987	0.167	0.5	0.167 ug/L	U	U		
Nickel	7440020	0.5	2	0.5 ug/L	U	U		
Selenium	7782492	1	5	1 ug/L	U	U		
Silver	7440224	0.2	1	0.2 ug/L	U	U		
Thallium	7440280	1	1	1 ug/L	J	U	B, result changed from 0.929 and MDL from 0.3	
Vanadium	7440622	3	10	3 ug/L	U	U		
Zinc	7440666	3	10	3 ug/L	U	U		

### Analysis Method 6020

Sample Name	HZBS0081AS0	001	Result Type: Primary Result				
Lab Sample Name:	238180002	Sample	Date: 9/	/30/2009 9:35:00 AN	í V	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	6.25	0.967	0.193 mg/kg	*	J	Е
Barium	7440393	95.9	0.387	0.0967 mg/kg	*	J	Е
Beryllium	7440417	0.697	0.0967	0.0193 mg/kg	*N	J	Q, E
Cadmium	7440439	0.204	0.193	0.0193 mg/kg			
Chromium	7440473	21.2	0.58	0.193 mg/kg	*E	J	E, A
Cobalt	7440484	6.87	0.193	0.058 mg/kg	*EN	J	Q, *III, A
Copper	7440508	11.6	0.193	0.0638 mg/kg	*EN	J	Q, E, A
Lead	7439921	13.2	0.387	0.0967 mg/kg	*N	J	Q, E
Molybdenum	7439987	0.481	0.193	0.058 mg/kg			
Nickel	7440020	15.3	0.387	0.0967 mg/kg	*EN	J	Q, E, A
Selenium	7782492	0.484	0.967	0.484 mg/kg	U	U	
Silver	7440224	0.0716	0.193	0.0387 mg/kg	J	J	
Thallium	7440280	0.335	0.193	0.058 mg/kg			
Vanadium	7440622	48.7	9.67	1.93 mg/kg	*	J	Е
Zinc	7440666	70.2	1.93	0.297 malla	*	J	Е
Zille	/440000	70.2	1.95	0.387 mg/kg		3	Ľ
Sample Name	HZBS0081AS0		Matrix 7			ult Type: Pr	
		002	Matrix 7		Res	-	imary Result
Sample Name Lab Sample Name:	HZBS0081AS0	002	Matrix 7	<b>Fype:</b> Soil	Res	ult Type: Pr Validation Le	imary Result
Sample Name Lab Sample Name: Analyte	HZBS0081AS0 238180003	002 Sample : Result	Matrix 7 Date: 9/	Type: Soil /30/2009 10:12:00 Al MDL Result	Rest M V Lab	ult Type: Pr Validation Le Validation	imary Result evel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic	HZBS0081AS0 238180003 CAS No	002 Sample 2 Result Value	Matrix 7 Date: 9/ RL	Type:         Soil           '30/2009 10:12:00 Al         MDL Result           MDL Result         Units	Rest M V Lab Qualifier	ult Type: Pr /alidation Le Validation Qualifier	imary Result evel: V Validation Notes
Sample Name Lab Sample Name: Analyte Arsenic Barium	HZBS0081AS0 238180003 CAS No 7440382	002 Sample 3 Result Value 6.14	Matrix 7 Date: 9 RL 1.04	Type:         Soil           '30/2009         10:12:00 Al           MDL         Result           Units         0.207 mg/kg	Resu M V Lab Qualifier *	ult Type: Pr /alidation Le Validation Qualifier J	imary Result evel: V Validation Notes E
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium	HZBS0081AS0 238180003 CAS No 7440382 7440393	002 Sample 2 Result Value 6.14 119	Matrix 7 Date: 9/ RL 1.04 0.414	Type:         Soil           '30/2009 10:12:00 Al         MDL Result           MDL Result         Units           0.207 mg/kg         0.104 mg/kg	Reso M V Lab Qualifier * *	ult Type: Pr /alidation Le Validation Qualifier J J	imary Result evel: V Validation Notes E E
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium	HZBS0081AS0 238180003 CAS No 7440382 7440393 7440417	002 Sample 3 Result Value 6.14 119 0.825	Matrix 7 Date: 9/ RL 1.04 0.414 0.104	Type:         Soil           '30/2009         10:12:00 Al           MDL         Result           Units         0.207 mg/kg           0.104 mg/kg         0.0207 mg/kg	Reso M V Lab Qualifier * * N	ult Type: Pr /alidation Le Validation Qualifier J J J	imary Result evel: V Validation Notes E E
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium	HZBS0081AS0 238180003 CAS No 7440382 7440393 7440417 7440439	002 Sample 2 Result Value 6.14 119 0.825 0.165	Matrix 7 Date: 9/ RL 1.04 0.414 0.104 0.207	Type:         Soil           '30/2009 10:12:00 Al           MDL Result Units           0.207 mg/kg           0.104 mg/kg           0.0207 mg/kg           0.0207 mg/kg	Reso M V Lab Qualifier * * * N J	ult Type: Pr /alidation Le Validation Qualifier J J J J	imary Result evel: V Validation Notes E E Q, E
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	HZBS0081AS0 238180003 CAS No 7440382 7440393 7440417 7440439 7440473	002 Sample 3 Result Value 6.14 119 0.825 0.165 21.7	Matrix 7 Date: 9/ RL 1.04 0.414 0.104 0.207 0.622	Type:         Soil           '30/2009         10:12:00 Al           MDL         Result           Units         0.207 mg/kg           0.104 mg/kg         0.0207 mg/kg           0.0207 mg/kg         0.0207 mg/kg           0.2007 mg/kg         0.0207 mg/kg	Reso M V Lab Qualifier * * * N J * E	ult Type: Pr /alidation Le Validation Qualifier J J J J J J	imary Result evel: V Validation Notes E E Q, E E, A
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	HZBS0081AS0 238180003 CAS No 7440382 7440393 7440417 7440439 7440473 7440484	002 Sample 3 Result Value 6.14 119 0.825 0.165 21.7 6.96	Matrix 7 Date: 9/ RL 1.04 0.414 0.104 0.207 0.622 0.207	Type:         Soil           '30/2009         10:12:00 Al           MDL         Result           Units         0.207 mg/kg           0.104 mg/kg         0.0207 mg/kg           0.0207 mg/kg         0.0207 mg/kg           0.2007 mg/kg         0.0207 mg/kg           0.0207 mg/kg         0.0207 mg/kg	Reso M V Lab Qualifier * * * N J J * E * EN	ult Type: Pr /alidation Le Validation Qualifier J J J J J J J J J	Validation Notes E Q, E E, A Q, *III, A
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead	HZBS0081AS0 238180003 CAS No 7440382 7440393 7440417 7440417 7440473 7440473 7440473	002 Sample 3 Result Value 6.14 119 0.825 0.165 21.7 6.96 11	Matrix 7 Date: 9/ RL 1.04 0.414 0.104 0.207 0.622 0.207 0.207	Type:         Soil           '30/2009         10:12:00 Al           MDL         Result           Units         0.207 mg/kg           0.104 mg/kg         0.0207 mg/kg           0.0207 mg/kg         0.0207 mg/kg           0.0207 mg/kg         0.0207 mg/kg           0.0207 mg/kg         0.0684 mg/kg	Reso M V Lab Qualifier * * * N J * E * EN	ult Type: Pr /alidation Le Validation Qualifier J J J J J J J J J J J	imary Result vel: V Validation Notes E E Q, E E, A Q, *III, A Q, E, A
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Copper Lead Molybdenum	HZBS0081AS0 238180003 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921	002 Sample 3 Result Value 6.14 119 0.825 0.165 21.7 6.96 11 9.44	Matrix 7 Date: 9/ RL 1.04 0.414 0.104 0.207 0.622 0.207 0.207 0.207 0.414	Type:         Soil           '30/2009         10:12:00 Al           MDL Result Units         MDL Result           0.207 mg/kg         0.207 mg/kg           0.0207 mg/kg         0.0207 mg/kg           0.2007 mg/kg         0.207 mg/kg           0.0207 mg/kg         0.2007 mg/kg           0.0207 mg/kg         0.207 mg/kg           0.0622 mg/kg         0.0684 mg/kg           0.104 mg/kg         0.104 mg/kg	Reso M V Lab Qualifier * * * N J * E * EN	ult Type: Pr /alidation Le Validation Qualifier J J J J J J J J J J J J	imary Result vel: V Validation Notes E E Q, E E, A Q, *III, A Q, E, A
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Molybdenum	HZBS0081AS0 238180003 CAS No 7440382 7440393 7440417 7440417 7440473 7440473 7440473 7440473 7440508 7439921 7439987	002 Sample 3 Result Value 6.14 119 0.825 0.165 21.7 6.96 11 9.44 0.474	Matrix 7 Date: 9/ RL 1.04 0.414 0.104 0.207 0.622 0.207 0.207 0.207 0.207	Type:         Soil           '30/2009 10:12:00 Al           MDL Result Units           0.207 mg/kg           0.104 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0622 mg/kg           0.0684 mg/kg           0.104 mg/kg           0.104 mg/kg	Rest M V Lab Qualifier * * N J * E * EN * EN * EN * N	ult Type: Pr /alidation Le Validation Qualifier J J J J J J J J J J J J J	imary Result vel: V Validation Notes E E Q, E E, A Q, E E, A Q, E, A Q, E
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Cadmium Cobalt Copper Lead Molybdenum Nickel Selenium	HZBS0081AS0 238180003 CAS No 7440382 7440393 7440417 7440417 7440439 7440473 7440473 7440484 7440508 7439921 7439987 7440020	002 Sample 3 Result Value 6.14 119 0.825 0.165 21.7 6.96 11 9.44 0.474 15.1	Matrix 7 Date: 9/ RL 1.04 0.414 0.104 0.207 0.622 0.207 0.207 0.207 0.414 0.207 0.414	Type:         Soil           '30/2009         10:12:00 Al           MDL Result Units         MDL Result           0.207 mg/kg         0.207 mg/kg           0.0207 mg/kg         0.0207 mg/kg           0.0207 mg/kg         0.0207 mg/kg           0.0207 mg/kg         0.06622 mg/kg           0.06624 mg/kg         0.0622 mg/kg           0.104 mg/kg         0.104 mg/kg	Resu M V Lab Qualifier * * N * E * EN * EN * EN	ult Type: Pr /alidation Le Validation Qualifier J J J J J J J J J J J J J	imary Result vel: V Validation Notes E E Q, E E, A Q, E E, A Q, E, A Q, E
Sample Name	HZBS0081AS0 238180003 CAS No 7440382 7440393 7440439 7440439 7440439 7440484 7440508 7439921 7439987 7440020 7782492	002 Sample 2 Result Value 6.14 119 0.825 0.165 21.7 6.96 11 9.44 0.474 15.1 0.518	Matrix 7 Date: 9/ RL 1.04 0.414 0.207 0.622 0.207 0.207 0.414 0.207 0.414 1.04	Type:         Soil           '30/2009 10:12:00 Al           MDL Result Units           0.207 mg/kg           0.104 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0622 mg/kg           0.0684 mg/kg           0.104 mg/kg           0.0622 mg/kg           0.104 mg/kg	Resu M V Lab Qualifier * * N J * E * EN * EN * EN * EN U	ult Type: Pr /alidation Le Validation Qualifier J J J J J J J J J J J J J	imary Result vel: V Validation Notes E E Q, E E, A Q, E E, A Q, e, A Q, E
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium	HZBS0081AS0 238180003 CAS No 7440382 7440393 7440417 7440417 7440439 7440473 7440473 7440484 7440508 7439921 7439987 7440020 7782492 7440224	002 Sample 3 Result Value 6.14 119 0.825 0.165 21.7 6.96 11 9.44 0.474 15.1 0.518 0.092	Matrix 7 Date: 9/ RL 1.04 0.414 0.104 0.207 0.622 0.207 0.207 0.207 0.414 0.207 0.414 1.04 0.207	Type:         Soil           '30/2009 10:12:00 Al           MDL Result Units           0.207 mg/kg           0.104 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0207 mg/kg           0.0622 mg/kg           0.104 mg/kg           0.104 mg/kg           0.104 mg/kg           0.104 mg/kg           0.104 mg/kg           0.104 mg/kg	Resu M V Lab Qualifier * * N J * E * EN * EN * EN * EN U	ult Type: Pr /alidation Le Validation Qualifier J J J J J J J J J J J J J	imary Result vel: V Validation Notes E E Q, E E, A Q, *III, A Q, E, A Q, E

Sample Name	HZBS0178S001		Matrix 7	Гуре: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180004	Sample	Date: 9/	/30/2009 11:15:00 A	м	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	5.86	0.973	0.195 mg/kg	*	J	Е
Barium	7440393	84.9	0.389	0.0973 mg/kg	*	J	Е
Beryllium	7440417	0.619	0.0973	0.0195 mg/kg	*N	J	Q, E
Cadmium	7440439	0.224	0.195	0.0195 mg/kg			
Chromium	7440473	18.6	0.584	0.195 mg/kg	*E	J	E, A
Cobalt	7440484	5.83	0.195	0.0584 mg/kg	*EN	J	Q, *III, A
Copper	7440508	10.7	0.195	0.0642 mg/kg	*EN	J	Q, E, A
Lead	7439921	15	0.389	0.0973 mg/kg	*N	J	Q, E
Molybdenum	7439987	0.506	0.195	0.0584 mg/kg			
Nickel	7440020	13.9	0.389	0.0973 mg/kg	*EN	J	Q, E, A
Selenium	7782492	0.486	0.973	0.486 mg/kg	U	U	
Silver	7440224	0.0661	0.195	0.0389 mg/kg	J	J	
Fhallium	7440280	0.299	0.195	0.0584 mg/kg			
Vanadium	7440622	39.6	9.73	1.95 mg/kg	*	J	Е
Zinc	7440666	60.5	1.95	0.389 mg/kg	*	J	Е
Sample Name	HZBS0178S002		Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180005	Sample	Date: 9/	/30/2009 11:30:00 A	м	alidation Le	vel: V
-	238180005 CAS No	Sample Result Value	Date: 9/ RL	30/2009 11:30:00 A MDL Result Units	M V Lab Qualifier	Validation Le Validation Qualifier	
Analyte		Result		MDL Result	Lab	Validation	Validation
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Analyte Arsenic Barium	CAS No 7440382	Result Value	<b>RL</b>	MDL Result Units	Lab Qualifier *	Validation Qualifier J	Validation Notes E
Analyte Arsenic Barium Beryllium	CAS No 7440382 7440393	Result           Value           5.42           81.6	RL 1.01 0.404	MDL Result Units 0.202 mg/kg 0.101 mg/kg	Lab Qualifier *	Validation Qualifier J J	Validation Notes E E
Analyte Arsenic Barium Beryllium Cadmium	CAS No 7440382 7440393 7440417	Result           Value           5.42           81.6           0.786	RL 1.01 0.404 0.101	MDL Result Units           0.202 mg/kg           0.101 mg/kg           0.0202 mg/kg	Lab Qualifier * * *N	Validation Qualifier J J J	Validation Notes E E
Arsenic Barium Beryllium Cadmium Chromium	CAS No 7440382 7440393 7440417 7440439	Result           Value           5.42           81.6           0.786           0.0568	RL 1.01 0.404 0.101 0.202	MDL Result Units           0.202 mg/kg           0.101 mg/kg           0.0202 mg/kg	Lab Qualifier * * *N J	Validation Qualifier J J J J	Validation Notes E E Q, E
Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	CAS No 7440382 7440393 7440417 7440439 7440473	Result           Value           5.42           81.6           0.786           0.0568           20.9	RL 1.01 0.404 0.101 0.202 0.606	MDL Result Units           0.202 mg/kg           0.101 mg/kg           0.0202 mg/kg           0.0202 mg/kg           0.202 mg/kg	Lab Qualifier * *N J *E	Validation Qualifier J J J J J	Validation Notes E Q, E E, A
Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	CAS No 7440382 7440393 7440417 7440439 7440473 7440484	Result           Value           5.42           81.6           0.786           0.0568           20.9           5.74	RL 1.01 0.404 0.101 0.202 0.606 0.202	MDL Result Units           0.202 mg/kg           0.101 mg/kg           0.0202 mg/kg           0.0202 mg/kg           0.202 mg/kg           0.202 mg/kg	Lab Qualifier * * * J * E * EN	Validation Qualifier J J J J J J	Validation Notes E E Q, E E, A Q, *III, A
Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead	CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508	Result           Value           5.42           81.6           0.786           0.0568           20.9           5.74           9.03	RL           1.01           0.404           0.101           0.202           0.606           0.202           0.202	MDL Result Units           0.202 mg/kg           0.101 mg/kg           0.0202 mg/kg           0.0202 mg/kg           0.202 mg/kg           0.202 mg/kg           0.202 mg/kg           0.205 mg/kg	Lab Qualifier * * * J * E * EN	Validation Qualifier J J J J J J J J	Validation Notes E E Q, E E, A Q, *III, A Q, E, A
Analyte Arsenic Barium BeryIlium Cadmium Chromium Cobalt Copper Lead Molybdenum	CAS No 7440382 7440393 7440417 7440439 7440473 7440484 7440508 7439921	Result           Value           5.42           81.6           0.786           0.0568           20.9           5.74           9.03           8.14	RL 1.01 0.404 0.101 0.202 0.606 0.202 0.202 0.404	MDL Result Units           0.202 mg/kg           0.101 mg/kg           0.0202 mg/kg           0.0202 mg/kg           0.202 mg/kg           0.0202 mg/kg           0.0606 mg/kg           0.0667 mg/kg           0.101 mg/kg	Lab Qualifier * * * J * E * EN	Validation Qualifier J J J J J J J J	Validation Notes E E Q, E E, A Q, *III, A Q, E, A
Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel	CAS No 7440382 7440393 7440417 7440439 7440439 7440473 7440484 7440508 7439921 7439987	Result           Value           5.42           81.6           0.786           0.0568           20.9           5.74           9.03           8.14           0.38	RL           1.01           0.404           0.101           0.202           0.606           0.202           0.404           0.202           0.404           0.202	MDL Result Units           0.202 mg/kg           0.101 mg/kg           0.0202 mg/kg           0.0202 mg/kg           0.202 mg/kg           0.0202 mg/kg           0.0606 mg/kg           0.101 mg/kg	Lab Qualifier * *N J * * * N * N	Validation Qualifier J J J J J J J J J J J	Validation Notes E E Q, E E, A Q, *III, A Q, E, A Q, E
Analyte Arsenic Barium BeryIlium Cadmium Cadmium Cobalt Copper Lead Molybdenum Nickel Selenium	CAS No 7440382 7440393 7440417 7440439 7440473 7440484 7440508 7439921 7439987 7440020	Result           Value           5.42           81.6           0.786           0.0568           20.9           5.74           9.03           8.14           0.38           12.5	RL 1.01 0.404 0.101 0.202 0.606 0.202 0.202 0.404 0.202 0.404	MDL Result Units         0.202 mg/kg         0.101 mg/kg         0.0202 mg/kg         0.0202 mg/kg         0.0202 mg/kg         0.00606 mg/kg         0.101 mg/kg         0.00606 mg/kg         0.00606 mg/kg         0.00606 mg/kg         0.0101 mg/kg	Lab Qualifier * * N J * E * EN * EN * EN	Validation Qualifier J J J J J J J J J J J J J J	Validation Notes E E Q, E E, A Q, *III, A Q, E, A Q, E
Analyte Arsenic Barium Beryllium Cadmium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium Silver	CAS No 7440382 7440393 7440417 7440439 7440439 7440473 7440484 7440508 7439921 7439987 7440020 7782492	Result           Value           5.42           81.6           0.786           0.0568           20.9           5.74           9.03           8.14           0.38           12.5           0.505	RL           1.01           0.404           0.101           0.202           0.606           0.202           0.404           0.202           0.404           0.202           0.404           0.202           0.404           0.202	MDL Result Units         0.202 mg/kg         0.101 mg/kg         0.0202 mg/kg         0.0202 mg/kg         0.0202 mg/kg         0.00606 mg/kg         0.101 mg/kg         0.00606 mg/kg         0.101 mg/kg         0.00006 mg/kg         0.101 mg/kg         0.101 mg/kg         0.101 mg/kg	Lab Qualifier * * * N * * N * N * N * N	Validation Qualifier J J J J J J J J J J J J J J J J J J J	Validation Notes E E Q, E E, A Q, *III, A Q, E, A Q, E
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium Silver Thallium	CAS No 7440382 7440393 7440417 7440439 7440473 7440484 7440508 7439921 7439987 7440020 7782492 7440224	Result           Value           5.42           81.6           0.786           0.0568           20.9           5.74           9.03           8.14           0.38           12.5           0.05584	RL 1.01 0.404 0.101 0.202 0.606 0.202 0.202 0.404 0.202 0.404 1.01 0.202	MDL Result Units         0.202 mg/kg         0.101 mg/kg         0.0202 mg/kg         0.0202 mg/kg         0.0202 mg/kg         0.00606 mg/kg         0.00606 mg/kg         0.00606 mg/kg         0.101 mg/kg         0.101 mg/kg         0.105 mg/kg         0.101 mg/kg         0.505 mg/kg	Lab Qualifier * * * N * * N * N * N * N	Validation Qualifier J J J J J J J J J J J J J J J J J J J	Validation Notes E E Q, E E, A Q, *III, A Q, E, A Q, E

Sample Name	HZBS0179S001		Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180006	Sample	Date: 9/	/30/2009 12:40:00 PM	M N	Validation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	5.58	1	0.201 mg/kg	*	J	Е
Barium	7440393	78.7	0.401	0.1 mg/kg	*	J	Е
Beryllium	7440417	0.644	0.1	0.0201 mg/kg	*N	J	Q, E
Cadmium	7440439	0.187	0.201	0.0201 mg/kg	J	J	
Chromium	7440473	17	0.602	0.201 mg/kg	*E	J	Е, А
Cobalt	7440484	5.4	0.201	0.0602 mg/kg	*EN	J	Q, *III, A
Copper	7440508	8.47	0.201	0.0662 mg/kg	*EN	J	Q, E, A
Lead	7439921	11.1	0.401	0.1 mg/kg	*N	J	Q, E
Molybdenum	7439987	0.458	0.201	0.0602 mg/kg			
Nickel	7440020	12.5	0.401	0.1 mg/kg	*EN	J	Q, E, A
Selenium	7782492	0.501	1	0.501 mg/kg	U	U	
Silver	7440224	0.0554	0.201	0.0401 mg/kg	J	J	
Thallium	7440280	0.253	0.201	0.0602 mg/kg			
Vanadium	7440622	33.5	10	2.01 mg/kg	*	J	Е
Zinc	7440666	51.8	2.01	0.401 mg/kg	*	J	Е
Line	7440000	51.6	2.01	0.401 mg/kg			
	HZBS0179S002	51.6	Matrix 7			ult Type: Pr	
Sample Name			Matrix 7		Res	-	imary Result
Sample Name Lab Sample Name:	HZBS0179S002		Matrix 7	Type: Soil	Res	ult Type: Pr Validation Le	imary Result
Sample Name Lab Sample Name: Analyte	HZBS0179S002 238180007	Sample Result	Matrix 7 Date: 9/	Type: Soil /30/2009 12:50:00 PP MDL Result	Res M N Lab	ult Type: Pr Validation Le Validation	imary Result evel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic	HZBS0179S002 238180007 CAS No	Sample Result Value	Matrix 7 Date: 9/ RL	Type:         Soil           '30/2009 12:50:00 Pt         MDL Result           MDL Result         Units	Res M N Lab Qualifier	ult Type: Pr Validation Le Validation Qualifier	imary Result evel: V Validation Notes
Sample Name Lab Sample Name: Analyte Arsenic Barium	HZBS0179S002 238180007 CAS No 7440382	Sample Result Value 2.87	Matrix 7 Date: 9/ RL 0.994	Type:         Soil           '30/2009         12:50:00 Pt           MDL         Result           Units         0.199 mg/kg	Reso M V Lab Qualifier	ult Type: Pr Validation Le Validation Qualifier J	imary Result evel: V Validation Notes E
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium	HZBS0179S002 238180007 CAS No 7440382 7440393	Sample Result Value 2.87 61.6	Matrix 7 Date: 9/ RL 0.994 0.398	Type:         Soil           '30/2009 12:50:00 Pt         MDL Result           MDL Result         Units           0.199 mg/kg         0.0994 mg/kg	Rest	ult Type: Pr Validation Le Validation Qualifier J J	imary Result evel: V Validation Notes E E
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium	HZBS0179S002 238180007 CAS No 7440382 7440393 7440417	Sample Result Value 2.87 61.6 0.664	Matrix 7 Date: 9/ RL 0.994 0.398 0.0994	Type:         Soil           '30/2009         12:50:00 Pt           MDL         Result           Units         0.199 mg/kg           0.0994 mg/kg         0.0199 mg/kg	Reso M V Lab Qualifier * * N	ult Type: Pr Validation Le Validation Qualifier J J J	imary Result evel: V Validation Notes E E
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium	HZBS0179S002 238180007 CAS No 7440382 7440393 7440417 7440439	Sample           Result           Value           2.87           61.6           0.664           0.0483	Matrix 7 Date: 9/ RL 0.994 0.398 0.0994 0.199	Type:         Soil           '30/2009         12:50:00 P!           MDL         Result           Units         0.199 mg/kg           0.0994 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0199 mg/kg	Rest M N Lab Qualifier * * * N J	ult Type: Pr Validation Le Validation Qualifier J J J J	imary Result evel: V Validation Notes E E Q, E
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	HZBS0179S002 238180007 CAS No 7440382 7440393 7440417 7440439 7440473	Sample Result Value 2.87 61.6 0.664 0.0483 12.2	Matrix 7 Date: 9/ RL 0.994 0.398 0.0994 0.199 0.596	Type:         Soil           '30/2009         12:50:00 Pt           MDL         Result           Units         0.199 mg/kg           0.0994 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.199 mg/kg         0.0199 mg/kg	Rest M V Lab Qualifier * * * N J * E	ult Type: Pr Validation Le Validation Qualifier J J J J J J	imary Result evel: V Validation Notes E E Q, E E, A
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	HZBS0179S002 238180007 CAS No 7440382 7440393 7440417 7440439 7440473 7440484	Sample Result Value 2.87 61.6 0.664 0.0483 12.2 3.57	Matrix 7 Date: 9/ RL 0.994 0.398 0.0994 0.199 0.596 0.199	Type:         Soil           '30/2009         12:50:00 Pl           MDL         Result           Units         0.199 mg/kg           0.0994 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.199 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0199 mg/kg	Rest M N Lab Qualifier * * * N J * E * EN	ult Type: Pr Validation Le Validation Qualifier J J J J J J J J J	Validation Notes E Q, E E, A Q, *III, A
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead	HZBS0179S002 238180007 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508	Sample Result Value 2.87 61.6 0.664 0.0483 12.2 3.57 4.65	Matrix 7 Date: 9/ RL 0.994 0.398 0.0994 0.199 0.596 0.199	Type:         Soil           '30/2009         12:50:00 Pt           MDL         Result           Units         0.199 mg/kg           0.0994 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.199 mg/kg         0.0199 mg/kg           0.0596 mg/kg         0.0656 mg/kg	Reso M N Lab Qualifier * * N J * E * EN * EN	ult Type: Pr Validation Le Validation Qualifier J J J J J J J J J J	imary Result vel: V Validation Notes E E Q, E E, A Q, *III, A Q, E, A
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Copper Lead Molybdenum	HZBS0179S002 238180007 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921	Sample Result 2.87 61.6 0.664 0.0483 12.2 3.57 4.65 5.12	Matrix 7 Date: 9/ RL 0.994 0.398 0.0994 0.199 0.596 0.199 0.398	Type:         Soil           '30/2009         12:50:00 Pt           MDL         Result           Units         0.199 mg/kg           0.0994 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.199 mg/kg         0.0199 mg/kg           0.0596 mg/kg         0.0656 mg/kg           0.0994 mg/kg         0.0994 mg/kg	Reso M N Lab Qualifier * * N J * E * EN * EN	ult Type: Pr Validation Le Validation Qualifier J J J J J J J J J J	imary Result vel: V Validation Notes E E Q, E E, A Q, ¥III, A Q, E, A
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Molybdenum	HZBS0179S002 238180007 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987	Sample Result Value 2.87 61.6 0.664 0.0483 12.2 3.57 4.65 5.12 0.274	Matrix 7 Date: 9/ RL 0.994 0.398 0.0994 0.199 0.596 0.199 0.398 0.199	Type:         Soil           '30/2009         12:50:00 P!           MDL         Result           Units         0.199 mg/kg           0.0994 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0596 mg/kg           0.0656 mg/kg         0.0994 mg/kg           0.0596 mg/kg         0.0596 mg/kg	Rest M N Lab Qualifier * * N J * E * EN * EN * EN * N	ult Type: Pr Validation Le Validation Qualifier J J J J J J J J J J J J J J J	imary Result vel: V Validation Notes E E Q, E E, A Q, E E, A Q, E, A Q, E
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Cadmium Cobalt Copper Lead Molybdenum Nickel Selenium	HZBS0179S002 238180007 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921 7439987 7440020	Sample Result 2.87 61.6 0.664 0.0483 12.2 3.57 4.65 5.12 0.274 7.74	Matrix 7 Date: 9/ RL 0.994 0.398 0.0994 0.199 0.596 0.199 0.398 0.199 0.398	Type:         Soil           '30/2009         12:50:00 Pt           MDL         Result           Units         0.199 mg/kg           0.0994 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0596 mg/kg           0.0656 mg/kg         0.0596 mg/kg           0.0596 mg/kg         0.0596 mg/kg           0.0596 mg/kg         0.0596 mg/kg           0.0596 mg/kg         0.0596 mg/kg	Rest M V Lab Qualifier * * N * EN * EN * EN	ult Type: Pr Validation Le Validation Qualifier J J J J J J J J J J J J J J J J	imary Result vel: V Validation Notes E E Q, E E, A Q, E E, A Q, E, A Q, E
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium	HZBS0179S002 238180007 CAS No 7440382 7440393 7440417 7440439 7440439 7440439 7440484 7440484 7440508 7439921 7439987 7439987 7440020 7782492	Sample Result Value 2.87 61.6 0.664 0.0483 12.2 3.57 4.65 5.12 0.274 7.74 0.497	Matrix 7 Date: 9/ RL 0.994 0.398 0.0994 0.199 0.596 0.199 0.398 0.199 0.398 0.398	Type:         Soil           '30/2009         12:50:00 Pl           MDL Result Units         Units           0.199 mg/kg         0.0994 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.0596 mg/kg         0.06566 mg/kg           0.0596 mg/kg         0.0596 mg/kg           0.0596 mg/kg         0.0596 mg/kg           0.0596 mg/kg         0.0994 mg/kg           0.0596 mg/kg         0.0994 mg/kg           0.0596 mg/kg         0.0994 mg/kg           0.0994 mg/kg         0.0994 mg/kg	Reso M N Lab Qualifier * * N J * E * EN * EN * EN * EN * U	ult Type: Pr Validation Le Validation Le J J J J J J J J J J J J J J J J J J J	imary Result vel: V Validation Notes E E Q, E E, A Q, E E, A Q, E, A Q, E
Sample Name	HZBS0179S002 238180007 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440473 7440473 74404508 7439921 7439987 7439987 7440020 7782492 7440224	Sample  Result Value  2.87  61.6  0.664  0.0483  12.2  3.57  4.65  5.12  0.274  7.74  0.497	Matrix 7 Date: 9/ RL 0.994 0.398 0.0994 0.199 0.596 0.199 0.398 0.199 0.398 0.199	Type:         Soil           '30/2009         12:50:00 Pt           MDL Result Units         Units           0.199 mg/kg         0.0994 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.199 mg/kg         0.0199 mg/kg           0.0596 mg/kg         0.00566 mg/kg           0.0596 mg/kg         0.0596 mg/kg           0.0596 mg/kg         0.0596 mg/kg           0.0596 mg/kg         0.0596 mg/kg           0.0994 mg/kg         0.0596 mg/kg           0.0994 mg/kg         0.0994 mg/kg           0.0994 mg/kg         0.0994 mg/kg           0.0994 mg/kg         0.0398 mg/kg	Reso M N Lab Qualifier * * N J * E * EN * EN * EN * EN * U	ult Type: Pr Validation Le Validation Le J J J J J J J J J J J J J J J J J J J	imary Result vel: V Validation Notes E E Q, E E, A Q, E E, A Q, e, A Q, E

Sample Name	HZET0718S001		Matrix 7	Type: So	il	Resu	ilt Type: Pr	imary Result	
Lab Sample Name:	238180008	Sample		/30/2009 1:			validation Le		
Analyte	CAS No	Result Value	RL	MDL I		Lab Qualifier		Validation Notes	
Copper	7440508	9.91	0.202	0.0667	mg/kg	*EN	J	Q, E, A	
Sample Name	HZET0719S001		Matrix 7	Type: So	il	Rest	ilt Type: Pr	imary Result	
Lab Sample Name:	238180009	Sample	Date: 9	/30/2009 1:3	35:00 PM	v	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL I	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Copper	7440508	6.26	0.199	0.0657	mg/kg	*EN	1	Q, E, A	
Sample Name	HZET0720S001		Matrix 7	<b>Fype:</b> So	il	Rest	ilt Type: Pr	imary Result	
Lab Sample Name:	238180010	Sample	Date: 9	/30/2009 1::	55:00 PM	4 Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL I	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Copper	7440508	5.41	0.207	0.0682	mg/kg	*EN	1	Q, E, A	
Sample Name	HZET0721S001		Matrix 7	Type: So	il	Rest	ult Type: Pr	imary Result	
Lab Sample Name:	238180011	Sample	Date: 9	/30/2009 2:0	05:00 PM	v	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL I	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Copper	7440508	5.19	0.235	0.0776	mg/kg	*EN	1	Q, E, A	
Sample Name	HZET0722S001		Matrix 7	Type: So	il	Rest	ult Type: Pr	imary Result	
Lab Sample Name:	238180012	Sample	Date: 9	/30/2009 2:	16:00 PM	v	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL I	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Copper	7440508	4.21	0.197	0.0651	mg/kg	*EN	1	Q, E, A	
Sample Name	HZET0723S001		Matrix 7	Type: So	il	Rest	ilt Type: Pr	imary Result	
Lab Sample Name:	238180013	Sample	Date: 9	/30/2009 2:2	25:00 PM	V	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL I U	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Copper	7440508	2.99	0.209	0.0689	mg/kg	*EN	1	Q, E, A	
	HZET0724S001		Matrix 7	Type: So	il	Resu	ult Type: Pr	imary Result	
Sample Name						x	alidation Le	vel• V	
Sample Name Lab Sample Name:	238180014	Sample	Date: 9	/30/2009 1::	30:00 PM	•	andation Le		
_	238180014 CAS No	Sample Result Value	Date: 9/ RL	MDL I		Lab Qualifier		Validation Notes	

Sample Name	HZET0725S001		Matrix '	Fype: Soil	Res	imary Result	
Lab Sample Name:	238180015 Sample Date: 9/30/2009 1:25:00 PM Validati				alidation Le	on Level: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	7.96	0.198	0.0652 mg/kg	*EN	т	Q, E, A

Analysis Method	6020
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Sample Name	HZBS0081AS00	1	Matrix 7	Fype: Soil	Resu	ult Type: Pr	imary Result
Lab Sample Name:	238180002	Sample	Date: 9	/30/2009 9:35:00 AN	1 V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.203	0.203	0.0508 ug/L	U	U	
Sample Name	HZBS0081AS00	2	Matrix 7	Type: Soil	Resu	ult Type: Pr	imary Result
Lab Sample Name:	238180003	Sample	Date: 9	/30/2009 10:12:00 A	M V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.212	0.212	0.0529 ug/L	U	U	
Sample Name	HZBS0178S001		Matrix 7	Type: Soil	Resu	ult Type: Pr	imary Result
Lab Sample Name:	238180004	Sample	Date: 9	/30/2009 11:15:00 A	M V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.204	0.204	0.0511 ug/L	U	U	
Sample Name	HZBS0178S002		Matrix 7	Type: Soil	Resu	ult Type: Pr	imary Result
Lab Sample Name:	238180005	Sample	Date: 9	/30/2009 11:30:00 A	M V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.212	0.212	0.053 ug/L	U	U	
Sample Name	HZBS0179S001		Matrix 7	Type: Soil	Resu	ult Type: Pr	imary Result
Lab Sample Name:	238180006	Sample	Date: 9	/30/2009 12:40:00 PI	M V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.181	0.204	0.0509 ug/L	J	1	
Sample Name	HZBS0179S002		Matrix	Type: Soil	Resu	ilt Type: Pr	imary Result
Lab Sample Name:	238180007	Sample	Date: 9	/30/2009 12:50:00 PI	м <b>у</b>	alidation Le	vel: V
Analyte	CAS No	Result	RL	MDL Result Units	Lab Qualifier	Validation	
		Value		Units	Quaimer	Qualifier	Notes

Sample Name	EBQW2248		Matrix '	Type: Water	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238180001	Sample I	ample Date:9/30/2009 2:45:00 PMValidation Lope				evel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Mercury	7439976	0.066	0.2	0.066 ug/L	U	U		

Analysis Method 7470A

Sample Name	HZBS0081AS00	1	Matrix 7	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238180002	Sample	Date: 9	/30/2009 9:35:00 AM	I I	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.0131	0.0118	0.00401 mg/kg	*N	J	B, Q, *III
Sample Name	HZBS0081AS00	2	Matrix '	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180003	Sample	Date: 9	/30/2009 10:12:00 Al	м	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.00396	0.0117	0.00396 mg/kg	U*N	UJ	*Ш
Sample Name	HZBS0178S001		Matrix '	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238180004	Sample	Date: 9	/30/2009 11:15:00 Al	м у	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.0174	0.0112	0.00382 mg/kg	*N	J	B, Q, *Ⅲ
Sample Name	HZBS0178S002		Matrix '	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180005	Sample	Date: 9	/30/2009 11:30:00 Al	м у	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.015	0.0107	0.00364 mg/kg	*N	J	B, Q, *Ⅲ
Sample Name	HZBS0179S001		Matrix 7	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238180006	Sample	Date: 9	/30/2009 12:40:00 PM	м у	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.0153	0.0117	0.00399 mg/kg	*N	J	B, Q, *Ⅲ
Sample Name	HZBS0179S002		Matrix '	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238180007	Sample	Date: 9	/30/2009 12:50:00 PM	м у	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes

### Analysis Method 7471A

Sample Name	EBQW2248		Matrix 7	Type: Water	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180001	Sample	Date: 9/	30/2009 2:45:00 PM	<b>T</b>	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
EFH (C12 - C14)	EFHD (C12	96.2	96.2	31.7 ug/L	U	U	
EFH (C15 - C20)	EFHD (C15	96.2	96.2	31.7 ug/L	U	U	
EFH (C21 - C30)	EFHD (C21	96.2	96.2	31.7 ug/L	U	U	
EFH (C8 - C11)	EFHD (C8-	96.2	96.2	31.7 ug/L	U	U	
Sample Name	HZBS0081AS00	1	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180002	Sample	Date: 9/	30/2009 9:35:00 AM	1 1	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
EFH (C12 - C14)	EFHD (C12	3.38	3.38	1.12 mg/kg	U	U	
EFH (C15 - C20)	EFHD (C15	3.38	3.38	1.12 mg/kg	U	U	
EFH (C21 - C30)	EFHD (C21	5.76	3.38	1.12 mg/kg			
EFH (C8 - C11)	EFHD (C8-	3.38	3.38	1.12 mg/kg	U	U	
Sample Name	HZBS0081AS00	2	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180003	Sample	Date: 9/	30/2009 10:12:00 A	M	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
EFH (C12 - C14)	EFHD (C12	3.52	3.52	1.16 mg/kg	U	U	
EFH (C15 - C20)	EFHD (C15	3.52	3.52	1.16 mg/kg	U	U	
EFH (C21 - C30)	EFHD (C21	3.52	3.52	1.16 mg/kg	U	U	
EFH (C8 - C11)	EFHD (C8-	3.52	3.52	1.16 mg/kg	U	U	
Sample Name	HZBS0178S001		Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180004	Sample	Date: 9/	30/2009 11:15:00 A	M	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
EFH (C12 - C14)	EFHD (C12	3.4	3.4	1.12 mg/kg	U	U	
EFH (C15 - C20)	EFHD (C15	2.3	3.4	1.12 mg/kg	J	J	
EFH (C21 - C30)	EFHD (C21	10.5	3.4	1.12 mg/kg			

### Analysis Method 8015B

Sample Name	HZBS0178S002		Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238180005	Sample	Date: 9	/30/2009 11:30:00 A	M Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
EFH (C12 - C14)	EFHD (C12	3.53	3.53	1.17 mg/kg	U	U		
EFH (C15 - C20)	EFHD (C15	3.53	3.53	1.17 mg/kg	U	U		
EFH (C21 - C30)	EFHD (C21	3.53	3.53	1.17 mg/kg	U	U		
EFH (C8 - C11)	EFHD (C8-	3.53	3.53	1.17 mg/kg	U	U		
Sample Name	HZBS0179S001		Matrix 7	Fype: Soil	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238180006	Sample	<b>Date:</b> 9,	/30/2009 12:40:00 Pl	м	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
EFH (C12 - C14)	EFHD (C12	3.4	3.4	1.12 mg/kg	U	U		
EFH (C15 - C20)	EFHD (C15	3.4	3.4	1.12 mg/kg	U	U		
EFH (C21 - C30)	EFHD (C21	3.12	3.4	1.12 mg/kg	J	J		
EFH (C8 - C11)	EFHD (C8-	3.4	3.4	1.12 mg/kg	U	U		
Sample Name	HZBS0179S002		Matrix 7	Fype: Soil	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238180007	Sample	Date: 9	/30/2009 12:50:00 Pl	м	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
EFH (C12 - C14)	EFHD (C12	3.48	3.48	1.15 mg/kg	U	U		
EFH (C15 - C20)	EFHD (C15	3.48	3.48	1.15 mg/kg	U	U		
EFH (C21 - C30)	EFHD (C21	3.48	3.48	1.15 mg/kg	U	U		
EFH (C8 - C11)	EFHD (C8-	3.48	3.48		U	U		

### Analysis Method 8015B

Sample Name	EBQW2248		Matrix 7	Type: Water	Rest	ult Type: Pr	imary Result	
Lab Sample Name:	238180001	Sample	Date: 9,	/30/2009 2:45:00 PM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aroclor-1016	12674112	0.0952	0.0952	0.0317 ug/L	U	U		
Aroclor-1221	11104282	0.0952	0.0952	0.0317 ug/L	U	U		
Aroclor-1232	11141165	0.0952	0.0952	0.0317 ug/L	U	U		
Aroclor-1242	53469219	0.0952	0.0952	0.0317 ug/L	U	U		
Aroclor-1248	12672296	0.0952	0.0952	0.0317 ug/L	U	U		
Aroclor-1254	11097691	0.0952	0.0952	0.0317 ug/L	U	U		
Aroclor-1260	11096825	0.0952	0.0952	0.0317 ug/L	U	U		
Sample Name	HZBS0081AS0	Matrix Type:         Soil         Result Type:         Primary Result						
Lab Sample Name:	238180002	Sample	alidation Le	vel: V				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aroclor-1016	12674112	3.39	3.39	1.13 ug/kg	U	U		
Aroclor-1221	11104282	3.39	3.39	1.13 ug/kg	U	U		
Aroclor-1232	11141165	3.39	3.39	1.13 ug/kg	U	U		
Aroclor-1242	53469219	3.39	3.39	1.13 ug/kg	U	U		
Aroclor-1248	12672296	3.39	3.39	1.13 ug/kg	U	U		
Aroclor-1254	11097691	4.7	3.39	1.13 ug/kg	Р	J	*III	
Aroclor-1260	11096825	2.9	3.39	1.13 ug/kg	J	J		
Sample Name	HZBS0081AS0	002	Matrix 7	Гуре: Soil	Rest	ult Type: Pr	imary Result	
Lab Sample Name:	238180003	Sample	Date: 9	/30/2009 10:12:00 A	м	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aroclor-1016	12674112	3.52	3.52	1.17 ug/kg	U	U		
Aroclor-1221	11104282	3.52	3.52	1.17 ug/kg	U	U		
Aroclor-1232	11141165	3.52	3.52	1.17 ug/kg	U	U		
Aroclor-1242	53469219	3.52	3.52	1.17 ug/kg	U	U		
Aroclor-1248	12672296	3.52	3.52	1.17 ug/kg	U	U		
Aroclor-1254	11097691	3.52	3.52	1.17 ug/kg	U	U		

Sample Name	HZBS0178S001		Matrix 7	<b>Fype:</b> Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180004	Sample	Date: 9,	/30/2009 11:15:00 A	M V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1221	11104282	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1232	11141165	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1242	53469219	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1248	12672296	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1254	11097691	2.9	3.4	1.13 ug/kg	Jp	J	*Ш
Aroclor-1260	11096825	4.4	3.4	1.13 ug/kg			
Sample Name	HZBS0178S002		Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180005	Sample	Date: 9	/30/2009 11:30:00 A	м	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.52	3.52	1.17 ug/kg	U	U	
Aroclor-1221	11104282	3.52	3.52	1.17 ug/kg	U	U	
Aroclor-1232	11141165	3.52	3.52	1.17 ug/kg	U	U	
Aroclor-1242	53469219	3.52	3.52	1.17 ug/kg	U	U	
Aroclor-1248	12672296	3.52	3.52	1.17 ug/kg	U	U	
Aroclor-1254	11097691	3.52	3.52	1.17 ug/kg	U	U	
Aroclor-1260	11096825	3.52	3.52	1.17 ug/kg	U	U	
Sample Name	HZBS0179S001		Matrix 7	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180006	Sample	Date: 9	/30/2009 12:40:00 PI	м	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.39	3.39	1.13 ug/kg	U	U	
Aroclor-1221	11104282	3.39	3.39	1.13 ug/kg	U	U	
Aroclor-1232	11141165	3.39	3.39	1.13 ug/kg	U	U	
Aroclor-1242	53469219	3.39	3.39	1.13 ug/kg	U	U	
Aroclor-1248	12672296	3.39	3.39	1.13 ug/kg	U	U	
Aroclor-1254	11097691	3.39	3.39	1.13 ug/kg	U	U	
Aroclor-1260	11096825	3.39	3.39	1.13 ug/kg	U	U	

Sample Name	HZBS0179S002		Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180007	Sample I	Date: 9	/30/2009 12:50:00 PI	M	Validation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.47	3.47	1.16 ug/kg	U	U	
Aroclor-1221	11104282	3.47	3.47	1.16 ug/kg	U	U	
Aroclor-1232	11141165	3.47	3.47	1.16 ug/kg	U	U	
Aroclor-1242	53469219	3.47	3.47	1.16 ug/kg	U	U	
Aroclor-1248	12672296	3.47	3.47	1.16 ug/kg	U	U	
Aroclor-1254	11097691	3.47	3.47	1.16 ug/kg	U	U	
Aroclor-1260	11096825	3.47	3.47	1.16 ug/kg	U	U	

Sample Name	EBQW2248		Matrix '	Type: Water	<b>Result Type:</b> Primary Result			
Lab Sample Name:	238180001	Sample l	Date: 9	/30/2009 2:45:00 PM	v	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1-Methyl naphthalene	90120	0.472	0.472	0.142 ug/L	U	U		
2-Methylnaphthalene	91576	0.472	0.472	0.142 ug/L	U	U		
Acenaphthene	83329	0.472	0.472	0.146 ug/L	U	U		
Acenaphthylene	208968	0.472	0.472	0.0943 ug/L	U	U		
Anthracene	120127	0.472	0.472	0.0943 ug/L	U	U		
Benzo(a)anthracene	56553	0.472	0.472	0.0943 ug/L	U	U		
Benzo(a)pyrene	50328	0.472	0.472	0.0943 ug/L	U	U		
Benzo(b)fluoranthene	205992	0.472	0.472	0.0943 ug/L	U	U		
Benzo(ghi)perylene	191242	0.472	0.472	0.0943 ug/L	U	U		
Benzo(k)fluoranthene	207089	0.472	0.472	0.0943 ug/L	U	U		
bis(2-ethylhexyl)phthalate	117817	0.472	0.472	0.142 ug/L	BJ	U	B, result changed from 0.216	
Butyl benzyl phthalate	85687	0.472	0.472	0.142 ug/L	U	U		
Chrysene	218019	0.472	0.472	0.0943 ug/L	U	U		
Dibenzo(a,h)anthracene	53703	0.472	0.472	0.0943 ug/L	U	U		
Diethylphthalate	84662	0.472	0.472	0.142 ug/L	U	U		
Dimethylphthalate	131113	0.472	0.472	0.142 ug/L	U	U		
Di-n-butylphthalate	84742	0.472	0.472	0.142 ug/L	U	U		
Di-n-octyl-phthalate	117840	0.472	0.472	0.142 ug/L	U	U		
Fluoranthene	206440	0.472	0.472	0.0943 ug/L	U	U		
Fluorene	86737	0.472	0.472	0.0943 ug/L	U	U		
Indeno(1,2,3-cd)pyrene	193395	0.472	0.472	0.0943 ug/L	U	U		
Naphthalene	91203	0.472	0.472	0.142 ug/L	U	U		
n-Nitrosodimethylamine	62759	0.472	0.472	0.0943 ug/L	U	U		
Phenanthrene	85018	0.472	0.472	0.0943 ug/L	U	U		
Pyrene	129000	0.472	0.472	0.142 ug/L	U	U		

Sample Name	HZBS0081AS00	)1	Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180002	Sample I	Date: 9	/30/2009 9:35:00 AM	I I	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methyl naphthalene	90120	16.9	16.9	5.08 ug/kg	U	U	
2-Methylnaphthalene	91576	16.9	16.9	3.39 ug/kg	U	U	
Acenaphthene	83329	16.9	16.9	5.65 ug/kg	U	U	
Acenaphthylene	208968	16.9	16.9	5.08 ug/kg	U	U	
Anthracene	120127	16.9	16.9	3.39 ug/kg	U	U	
Benzo(a)anthracene	56553	16.9	16.9	5.08 ug/kg	U	U	
Benzo(a)pyrene	50328	16.9	16.9	5.08 ug/kg	U	U	
Benzo(b)fluoranthene	205992	16.9	16.9	5.08 ug/kg	U	U	
Benzo(ghi)perylene	191242	16.9	16.9	5.08 ug/kg	U	U	
Benzo(k)fluoranthene	207089	16.9	16.9	5.08 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	8.99	16.9	5.59 ug/kg	J	J	
Butyl benzyl phthalate	85687	16.9	16.9	5.08 ug/kg	U	U	
Chrysene	218019	16.9	16.9	5.08 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	16.9	16.9	5.08 ug/kg	U	U	
Diethylphthalate	84662	16.9	16.9	5.08 ug/kg	U	U	
Dimethylphthalate	131113	16.9	16.9	5.08 ug/kg	U	U	
Di-n-butylphthalate	84742	16.9	16.9	5.08 ug/kg	U	U	
Di-n-octyl-phthalate	117840	16.9	16.9	5.08 ug/kg	U	U	
Fluoranthene	206440	16.9	16.9	5.08 ug/kg	U	U	
Fluorene	86737	16.9	16.9	5.08 ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	16.9	16.9	5.08 ug/kg	U	U	
Naphthalene	91203	16.9	16.9	5.08 ug/kg	U	U	
n-Nitrosodimethylamine	62759	16.9	16.9	3.39 ug/kg	U	U	
Phenanthrene	85018	16.9	16.9	5.08 ug/kg	U	U	
Pyrene	129000	16.9	16.9	5.31 ug/kg	U	U	

Sample Name	HZBS0081AS0	002	Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180003	Sample I	Date: 9	/30/2009 10:12:00 A	М	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
I-Methyl naphthalene	90120	17.6	17.6	5.29 ug/kg	U	U	
2-Methylnaphthalene	91576	17.6	17.6	3.53 ug/kg	U	U	
Acenaphthene	83329	17.6	17.6	5.89 ug/kg	U	U	
Acenaphthylene	208968	17.6	17.6	5.29 ug/kg	U	U	
Anthracene	120127	17.6	17.6	3.53 ug/kg	U	U	
Benzo(a)anthracene	56553	17.6	17.6	5.29 ug/kg	U	U	
Benzo(a)pyrene	50328	17.6	17.6	5.29 ug/kg	U	U	
Benzo(b)fluoranthene	205992	17.6	17.6	5.29 ug/kg	U	U	
Benzo(ghi)perylene	191242	17.6	17.6	5.29 ug/kg	U	U	
Benzo(k)fluoranthene	207089	17.6	17.6	5.29 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	6.84	17.6	5.82 ug/kg	J	J	
Butyl benzyl phthalate	85687	17.6	17.6	5.29 ug/kg	U	U	
Chrysene	218019	17.6	17.6	5.29 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	17.6	17.6	5.29 ug/kg	U	U	
Diethylphthalate	84662	17.6	17.6	5.29 ug/kg	U	U	
Dimethylphthalate	131113	17.6	17.6	5.29 ug/kg	U	U	
Di-n-butylphthalate	84742	17.6	17.6	5.29 ug/kg	U	U	
Di-n-octyl-phthalate	117840	17.6	17.6	5.29 ug/kg	U	U	
Fluoranthene	206440	17.6	17.6	5.29 ug/kg	U	U	
Fluorene	86737	17.6	17.6	5.29 ug/kg	U	U	
ndeno(1,2,3-cd)pyrene	193395	17.6	17.6	5.29 ug/kg	U	U	
Naphthalene	91203	17.6	17.6	5.29 ug/kg	U	U	
n-Nitrosodimethylamine	62759	17.6	17.6	3.53 ug/kg	U	U	
Phenanthrene	85018	17.6	17.6	5.29 ug/kg	U	U	
Pyrene	129000	17.6	17.6	5.54 ug/kg	U	U	

Sample Name	HZBS0178S001	1	Matrix '	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180004	Sample I	Date: 9	/30/2009 11:15:00 A	М	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methyl naphthalene	90120	17	17	5.11 ug/kg	U	U	
2-Methylnaphthalene	91576	17	17	3.4 ug/kg	U	U	
Acenaphthene	83329	17	17	5.69 ug/kg	U	U	
Acenaphthylene	208968	17	17	5.11 ug/kg	U	U	
Anthracene	120127	17	17	3.4 ug/kg	U	U	
Benzo(a)anthracene	56553	17	17	5.11 ug/kg	U	U	
Benzo(a)pyrene	50328	17	17	5.11 ug/kg	U	U	
Benzo(b)fluoranthene	205992	17	17	5.11 ug/kg	U	U	
Benzo(ghi)perylene	191242	17	17	5.11 ug/kg	U	U	
Benzo(k)fluoranthene	207089	17	17	5.11 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	17.8	17	5.62 ug/kg			
Butyl benzyl phthalate	85687	17	17	5.11 ug/kg	U	U	
Chrysene	218019	17	17	5.11 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	17	17	5.11 ug/kg	U	U	
Diethylphthalate	84662	17	17	5.11 ug/kg	U	U	
Dimethylphthalate	131113	17	17	5.11 ug/kg	U	U	
Di-n-butylphthalate	84742	17	17	5.11 ug/kg	U	U	
Di-n-octyl-phthalate	117840	17	17	5.11 ug/kg	U	U	
Fluoranthene	206440	17	17	5.11 ug/kg	U	U	
Fluorene	86737	17	17	5.11 ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	17	17	5.11 ug/kg	U	U	
Naphthalene	91203	17	17	5.11 ug/kg	U	U	
n-Nitrosodimethylamine	62759	17	17	3.4 ug/kg	U	U	
Phenanthrene	85018	17	17	5.11 ug/kg	U	U	
Pyrene	129000	17	17	5.35 ug/kg	U	U	

Sample Name	HZBS0178S002		Matrix '	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238180005	Sample I	Date: 9	/30/2009 11:30:00 A	М	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methyl naphthalene	90120	17.7	17.7	5.3 ug/kg	U	U	
2-Methylnaphthalene	91576	17.7	17.7	3.53 ug/kg	U	U	
Acenaphthene	83329	17.7	17.7	5.9 ug/kg	U	U	
Acenaphthylene	208968	17.7	17.7	5.3 ug/kg	U	U	
Anthracene	120127	17.7	17.7	3.53 ug/kg	U	U	
Benzo(a)anthracene	56553	17.7	17.7	5.3 ug/kg	U	U	
Benzo(a)pyrene	50328	17.7	17.7	5.3 ug/kg	U	U	
Benzo(b)fluoranthene	205992	17.7	17.7	5.3 ug/kg	U	U	
Benzo(ghi)perylene	191242	17.7	17.7	5.3 ug/kg	U	U	
Benzo(k)fluoranthene	207089	17.7	17.7	5.3 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	17.7	17.7	5.83 ug/kg	U	U	
Butyl benzyl phthalate	85687	17.7	17.7	5.3 ug/kg	U	U	
Chrysene	218019	17.7	17.7	5.3 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	17.7	17.7	5.3 ug/kg	U	U	
Diethylphthalate	84662	17.7	17.7	5.3 ug/kg	U	U	
Dimethylphthalate	131113	17.7	17.7	5.3 ug/kg	U	U	
Di-n-butylphthalate	84742	17.7	17.7	5.3 ug/kg	U	U	
Di-n-octyl-phthalate	117840	17.7	17.7	5.3 ug/kg	U	U	
Fluoranthene	206440	17.7	17.7	5.3 ug/kg	U	U	
Fluorene	86737	17.7	17.7	5.3 ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	17.7	17.7	5.3 ug/kg	U	U	
Naphthalene	91203	17.7	17.7	5.3 ug/kg	U	U	
n-Nitrosodimethylamine	62759	17.7	17.7	3.53 ug/kg	U	U	
Phenanthrene	85018	17.7	17.7	5.3 ug/kg	U	U	
Pyrene	129000	17.7	17.7	5.54 ug/kg	U	U	

Sample Name	HZBS0179S001		Matrix [	Fype: Soil	<b>Result Type:</b> Primary Result			
Lab Sample Name:	238180006	Sample I	Date: 9	/30/2009 12:40:00 PI	M N	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
I-Methyl naphthalene	90120	16.9	16.9	5.08 ug/kg	U	U		
2-Methylnaphthalene	91576	16.9	16.9	3.39 ug/kg	U	U		
Acenaphthene	83329	16.9	16.9	5.65 ug/kg	U	U		
Acenaphthylene	208968	16.9	16.9	5.08 ug/kg	U	U		
Anthracene	120127	16.9	16.9	3.39 ug/kg	U	U		
Benzo(a)anthracene	56553	16.9	16.9	5.08 ug/kg	U	U		
Benzo(a)pyrene	50328	16.9	16.9	5.08 ug/kg	U	U		
Benzo(b)fluoranthene	205992	16.9	16.9	5.08 ug/kg	U	U		
Benzo(ghi)perylene	191242	16.9	16.9	5.08 ug/kg	U	U		
Benzo(k)fluoranthene	207089	16.9	16.9	5.08 ug/kg	U	U		
ois(2-ethylhexyl)phthalate	117817	9.15	16.9	5.59 ug/kg	J	J		
Butyl benzyl phthalate	85687	16.9	16.9	5.08 ug/kg	U	U		
Chrysene	218019	16.9	16.9	5.08 ug/kg	U	U		
Dibenzo(a,h)anthracene	53703	16.9	16.9	5.08 ug/kg	U	U		
Diethylphthalate	84662	16.9	16.9	5.08 ug/kg	U	U		
Dimethylphthalate	131113	16.9	16.9	5.08 ug/kg	U	U		
Di-n-butylphthalate	84742	16.9	16.9	5.08 ug/kg	U	U		
Di-n-octyl-phthalate	117840	16.9	16.9	5.08 ug/kg	U	U		
Fluoranthene	206440	16.9	16.9	5.08 ug/kg	U	U		
Fluorene	86737	16.9	16.9	5.08 ug/kg	U	U		
ndeno(1,2,3-cd)pyrene	193395	16.9	16.9	5.08 ug/kg	U	U		
Naphthalene	91203	16.9	16.9	5.08 ug/kg	U	U		
n-Nitrosodimethylamine	62759	16.9	16.9	3.39 ug/kg	U	U		
Phenanthrene	85018	16.9	16.9	5.08 ug/kg	U	U		
Pyrene	129000	16.9	16.9	5.32 ug/kg	U	U		

Sample Name	HZBS0179S002	1	Matrix [	Fype: Soil	<b>Result Type:</b> Primary Result			
Lab Sample Name:	238180007	Sample I	Date: 9	/30/2009 12:50:00 PM	M N	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1-Methyl naphthalene	90120	17.4	17.4	5.22 ug/kg	U	U		
2-Methylnaphthalene	91576	17.4	17.4	3.48 ug/kg	U	U		
Acenaphthene	83329	17.4	17.4	5.81 ug/kg	U	U		
Acenaphthylene	208968	17.4	17.4	5.22 ug/kg	U	U		
Anthracene	120127	17.4	17.4	3.48 ug/kg	U	U		
Benzo(a)anthracene	56553	17.4	17.4	5.22 ug/kg	U	U		
Benzo(a)pyrene	50328	17.4	17.4	5.22 ug/kg	U	U		
Benzo(b)fluoranthene	205992	17.4	17.4	5.22 ug/kg	U	U		
Benzo(ghi)perylene	191242	17.4	17.4	5.22 ug/kg	U	U		
Benzo(k)fluoranthene	207089	17.4	17.4	5.22 ug/kg	U	U		
bis(2-ethylhexyl)phthalate	117817	6.23	17.4	5.74 ug/kg	J	J		
Butyl benzyl phthalate	85687	17.4	17.4	5.22 ug/kg	U	U		
Chrysene	218019	17.4	17.4	5.22 ug/kg	U	U		
Dibenzo(a,h)anthracene	53703	17.4	17.4	5.22 ug/kg	U	U		
Diethylphthalate	84662	17.4	17.4	5.22 ug/kg	U	U		
Dimethylphthalate	131113	17.4	17.4	5.22 ug/kg	U	U		
Di-n-butylphthalate	84742	17.4	17.4	5.22 ug/kg	U	U		
Di-n-octyl-phthalate	117840	17.4	17.4	5.22 ug/kg	U	U		
Fluoranthene	206440	17.4	17.4	5.22 ug/kg	U	U		
Fluorene	86737	17.4	17.4	5.22 ug/kg	U	U		
Indeno(1,2,3-cd)pyrene	193395	17.4	17.4	5.22 ug/kg	U	U		
Naphthalene	91203	17.4	17.4	5.22 ug/kg	U	U		
n-Nitrosodimethylamine	62759	17.4	17.4	3.48 ug/kg	U	U		
Phenanthrene	85018	17.4	17.4	5.22 ug/kg	U	U		
Pyrene	129000	17.4	17.4	5.46 ug/kg	U	U		

# Chain of Custody and Supporting Documentation

														Page:	1 0L Z
Customer	Customer Information	Project Information	ation			Projec	Project Information	nation							
Site:	SSFL	<b>Client Name:</b>	Boeing			Collector:		B. Martasin	-				Boeing PM:		
Company:	MWH	Sampling Event:		ampling, A	ISRA Sampling, August 2009	Contact #:	##								
Report to:	Sarah Von Raesfeld	Project Number:		1891614.05462					Requ	ested A	<b>Requested Analyses</b>			Instruct	Instructions/TAT
Address:	2121 N. California Blvd	Project Manager:	: Alex Fischl	schl						_				Legend:	
	Suite 600	PM Phone #:	(925) 6	(925) 627-4627				_					_	Numerica	Numerical values for
	Walnut Creek	Field Contact:	Brian N	Brian Martasin										around ti	around time in days
	CA	Field Contact #:	(323) 3	(323) 304-4969										H-Hold	
	94596	Lab Name:	GELL	<b>GEL Laboratories, LLC</b>	TLC					Pe			т	EH - EXtr Hold	EH - Extract/Extrude & Hold
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie	Jackie Trudell									PHb		
	sean.leffler@mwhgtobal.com	Lab Address:	2040 S	2040 Savage Road	q								y SV	Note: Val	Note: Values in the cells
			Charle	Charleston, SC 29407	407								/8015	bellow ar Times.	e Turn Aroun
		Lab Phone:	(843) 7	(843) 769-7388									5BM		
Sample Name	ame	Matrix	Date	Time	No. of Containers	B - Soil ure Soil	- Water	A - Soil - Water	2 - Soil	OI-WET	- Water M - Soil	M - Soil	- Water	Comments	nts
EBQW2249	Water		10/1/2009	15:30	σ		+		-	10	10		10		
T HVBF33AS01	01 Soil	-	10/1/2009	10:18	2	5 5			5	_	5	5			
HVBF33AS02	02 Soil	-	10/1/2009	10:40	2	5 5		_	5		5	5			
HZBS0080AS001	AS001 Soil		10/1/2009	14:35	3	5	_	2	5	5	5	5			
HZBS0080AS002	AS002 Soil	-	10/1/2009	14:45	3	2		2	5	5	5,	5			
HZBS0082AS001	AS001 Soil		10/1/2009	8:30	3	5	_	2	5	5	5	5			
HZBS0082AS002	AS002 Soil	-	10/1/2009	9:05	3	5		2	5	5	5	5			
HZBS0084AS001	AS001 Soil		10/1/2009	7:50	3	5		2	5	5	5	5			
HZBS0084AS002	AS002 Soil		10/1/2009	8:15	3	5		2	5	5	5	5			
V HZBS0123AS001	AS001 Soil		10/1/2009	13:15	3	5		2	S	s.	2	5			
1. Relinqu	1. Relinquished by: Date:	2. Received by:	y:		Date:	3. Relir	3. Relinquished by:	:Yd		Date:		4. Re	4. Received by:		Date:
$\mathcal{A}$	- rolil	10/1/05 R. M. Helle	Miny		20/2/01			-							
Company: MWH		5 Company:		5	Time: AIS	Company:	ž			Time:		Con	Company:		Time:
Comments:	ls:										Geoti	Geotracker EDF	EDF		

	000	, DNI SOS		CH/	AIN OF	CHAIN OF CUSTODY RECORD	ΥR	ECO	ß				8	COC #:		MWHBN Page:	MWHBM20091001_00 Page: 2 of 2
-	Customer	Customer Information	Project Information	tion			Proj	Project Information	ormati	uo							
	Site:	SSFL	Client Name:	Boeing			Colle	Collector:	B. Martasin	tasin					Boeing PM:		
	Company:	HWM	Sampling Event:		ampling, A	ISRA Sampling, August 2009	Cont	Contact #:									
L.	Report to:	Sarah Von Raesfeld	Project Number:	-	1891614.05462						Seque	sted A	Requested Analyses			Instruc	Instructions/TAT
	Address:	2121 N. California Blvd	Project Manager:	: Alex Fischl	schl				_	-						Legend:	
		Suite 600	PM Phone #:	(925) 6	(925) 627-4627											Numeric	Numerical values for analyses equate to turn
-		Walnut Creek	Field Contact:	Brian Martasin	lartasin						-					around t	around time in days
		CA	Field Contact #:	(323) 3	(323) 304-4969				Meta	Me						H- Hold	
_		94596	Lab Name:	GEL La	GEL Laboratories, LLC	, LLC			ls by	etals I		Pe			TF	EH - EX	EH - EXtract/Extrude & Hold
	Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell	Trudell					by 60		rchlo			РН Б		
		sean.leffler@mwhglobal.com	Lab Address:	2040 S	2040 Savage Road	q	D22			010/6		orate 3			y SW	Note: Va	Note: Values in the cells
				Charles	Charleston, SC 29407	9407	16 N			020/		314 \$			8015	bellow a Times.	bellow are Turn Around Times.
			Lab Phone:	(843) 7	(843) 769-7388		Noist			7471		Soil [			5BM -		
	Sample Name	ame	Matrix	Date	Time	No. of Containers	ure Soil	- Water B - Soil	- Water	A - Soil	- Water	DI-WET	- Water M - Soil	M - Soil	- Water	Comments	ents
2	HZBS0123AS002	(S002 Soil		10/1/2009	13:30	3	5			2	5	5	22	S			
_	HZBS0124AS001	\S001 Soil		10/1/2009	11:00	3	2	-		N	5	5	2	ŝ			
1	HZBS0124AS002	4S002 Soil		10/1/2009	12:30	3	5			7	сı L	s	5	2			
-	HZBS0175S001	S001 Soil		10/1/2009	13:50	3	5	5 ,		2	5	5	5	5			
	HZBS0175S002	S002 Soil		10/1/2009	14:10	3	5	5		2	5	5	5	2			
-	HZBS0177S001	S001 Soil		10/1/2009	15:00	3	5	5		2	5	5	5	5			
	HZBS0177S002	S002 Soil		10/1/2009	15:15	3	5	5		2	5	2	5	2			
	HZBS0180S001	S001 . Soil		10/1/2009	9:30	3	5	5		5	5	5	2	ŝ			
	HZBS0180S002	S002 Soil		10/1/2009	10:00	3	2	5		2	2	2	2	5			
	1. Relinqu	1. Relinquished by: Date:	2. Received by:	ż		Date:	3. Re	3. Relinquished by:	hed by			Date:		4. R	4. Received by:		Date:
	L'	10/11	10/1/09 R.M. H.	- Wine	ष्	be 2 9											
	Company: MWH		Company:	1 [	6	Timle:	Com	Company:				Time:		Ğ	Company:		Time:
	Comments:	lts:											Geot	Geotracker EDF	EDF		
													Data	Valida	Data Validation Package	C Level IV	

GEL Laboratories LLC

## SAMPLE RECEIPT & REVIEW FORM

0	lient: SSF1				SDG/ARCOC/Work Order: 238234
F	leceived By: RMS				Date Received: 1 @ /3 09
	uspected Hazard Information	Yes	v	*If Sat	Counts > x2 area background on samples not marked "radioactive", contact the Radiation for $radioactive$ for $radioactive$ and $radioactive and radioactive and radi$
	OC/Samples marked as radioactive?		1	Ma	ximum Counts Observed*:
	lassified Radioactive II or III by RSO?		1		30com
	OC/Samples marked containing PCBs?		2	1	
_	hipped as a DOT Hazardous?		Ľ	Ha	zard Class Shipped: UN#:
Di la	amples identified as Foreign Soil?		1		
L	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 $(0 \le 6 \text{ deg. C})$ ?	/			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?				seals broken enged container leaking container other (describe) Teceived (Z) broken Amber 12 10: EBRW2249
5	Samples requiring chemical preservation at proper pH?	/			Sample ID's, containers affected and observed pH: f Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?	1		5	ample ID's and containers affected:
7	Are Encore containers present?	/		0	If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	]		I	I's and tests affected:
	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?	/		s	ample ID's affected:
11	Number of containers received match number indicated on COC?			S	ample ID's affected:
12	COC form is properly signed in relinquished/received sections?	J			
Cor	nments: Fx: 9457 5163 0000 11 11 0795 11 3159 3937		1	A	006 Data 10/2/09
	PM (or PMA) review: I	nitia	als_	-1	Mg Date 0 2 09

Subject: RE: Regarding Sample Receipt on 10/2/09 From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com> Date: Fri, 2 Oct 2009 10:08:24 -0600 To: Ann Skradski <ann.skradski@gel.com>, team.trudell</team.trudell@gel.com> CC: Sean Leffler <Sean.S.Leffler@us.mwhglobal.com>, Allison Ruotolo <Allison.M.Ruotolo@us.mwhglobal.com>

Hi Ann,

Please proceed with the analyses per the COC and we will keep our fingers crossed that no re-extractions are needed.

Thank you.

-----Original Message-----From: Ann Skradski [mailto:ann.skradski@gel.com] Sent: Friday, October 02, 2009 8:45 AM To: Sarah Von Raesfeld; team.trudell Subject: Regarding Sample Receipt on 10/2/09

Good morning Sarah.

I am stepping in for Jackie while she is out of the office today.

Today GEL received 2 broken 1L ambers for Sample ID EBQW2249. If we are conservative and we don't have re-runs we should be able to continue with all requested analysis. Please advise as to how you would like us to proceed. All other items in this shipment were received in good condition. Thank you for your time. Ann

---

Ann M. Skradski Project Manager GEL Laboratories, LLC 2040 Savage Road PO Box 30712 Charleston, SC 29417 (843) 769-7386 (843) 766-1178 fax Ann.Skradski@gel.com

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

To: Jackie Trudell

Laboratory GEL Laboratories, LLC

From:

Requestor



Subject: Chain-of-Custody Form Analytical Request Change

No. of Pages: 3

Phone: 843-769-7388

jacqueline.trudell@gel.com

E-mail:

#### 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
MWHBM20 091001_00	HZBS0080AS001, HZBS0080AS002	10/1/09		Run perchlorate by 6850
MWHBM20 091001_00	HZBS0082AS001, HZBS0082AS002	10/1/09		Run perchlorate by 6850
MWHBM20 091001_00	HZBS0084AS001, HZBS0084AS002	10/1/09		Run perchlorate by 6850
MWHBM20 091001_00	HZBS0123AS001, HZBS0123AS002	10/1/09		Run perchlorate by 6850
MWHBM20 091001_00	HZBS0124AS001, HZBS0124AS002	10/1/09		Run perchlorate by 6850
MWHBM20 091001_00	HZBS0175S001, HZBS0175S002	10/1/09		Run perchlorate by 6850
MWHBM20 091001_00	HZBS0177S001, HZBS0177S002	10/1/09		Run perchlorate by 6850
MWHBM20 091001_00	HZBS0180S001, HZBS0180S002	10/1/09		Run perchlorate by 6850

 The reason for these changes:

 Incorrectly marked on COC form

 Lack of sample volume

 Change in analytical request

 X

 Other:

Thank you

1

BEL         SST         Onter terms         Donoto         Remains         Bonton Price         Donoto Price           Component         Mill Mill         Sampling         Event Bonk         Event Bo	Chant     Collector:     Diameter:     Boeing       Chant Name:     Boeing     Frojoct Number:     1896/14.03-642       An Rassfeld     Project Number:     1896/14.03-642       An Rassfeld     Project Number:     1896/14.03-642       California Blud     Project Number:     1896/14.03-642       An Rassfeld     Project Number:     1896/14.03-642       California Blud     Project Number:     1896/14.03-642       Contact:     Jacke Truteli     1896/14.03-642       Contact:     Jacke Truteli     1806/14.03-642       Neuer     California Blud     California Blud       Neuer     California Blud     Project Number:       Lab Mattesin     Jacket Trutes     Jacket Truteli       Neuer     California Blud     California Blud       Neuer     California Blud     California       Neuer     California Blud     California       Neuer     California     Jacket Truteli       Neuer     California     California       Sode <t< th=""><th>Project information</th></t<>	Project information
H         Descripting Elevent         Elevel Scamptory         Elevel Scamptory         Elevel Scamptory         Elevel Scamptory           111.0.0010         Part Place Kimmber:         111.0.0010         Part Place Kimmber:         111.0.0010         Part Place Kimmber:         111.0.0010           111.0.0010         Part Place Kimmber:         111.0.0010         Part Place Kimmber:         111.0.0010         111.0.0010           111.0.0010         Part Place Kimmber:         101.0.0010         111.0.0010         111.0.0010         111.0.0010         111.0.0010           111.0.0010         Part Place Kimmber:         101.0.0010         111.0.0010         111.0.0010         111.0.0010         111.0.0010           111.0.0010         Part Place Contract R         2000 Elevel R         100.0.0010         111.0.0010         111.0.0010         111.0.0010           111.0.0010         Part Place Contract R         2000 Elevel R         100.0.0010         111.0.0010         111.0.0010         111.0.0010           111.0.0010         Part Place Contract R         2000 Elevel R         100.0.0010         111.0.0010         111.0.0010           111.0.0010         Part Place Contract R         2000 Elevel R         100.0.001         100.0.001         100.0.0010           1111.0.0010         Part Place Contract R	H     Sampling Event:     ISPA Sampling Event:     ISPA Sampling Event:     ISPA Sampling Event:       at Von Raseleid     Project Rimmson:     111.1.California Elivid     Project Rimmson:     148.7       at Von Raseleid     Project Rimmson:     168.00     Project Rimmson:     169.01.4       at Von Raseleid     Project Rimmson:     168.00     Project Rimmson:     160.01       At Non Raseleid     Project Rimmson:     168.00     Project Rimmson:     160.01       At Non Raseleid     Project Rimmson:     160.00     Project Rimmson:     160.00       At Non Raseleid     Project Rimmson:     160.00     Project Rimmson:     160.00       At Non Raseleid     Project Rimmson:     160.00     Project Rimmson:     160.00       At Non Raseleid     Interfined     Att Non Rimon     160.00     100.00       Att Non Raseleid     Interfined     1.10     0.05.00     0.05.00     0.05.00       Att Non Raseleid     Interfined     1.10     0.05.00     0.05.00     0.05.00     0.05.00       Att Non Raseleid     Italia     1.10     0.05.00     0.05.00     0.05.00     0.05.00       Att Non Raseleid     1.10     0.05.00     0.05.00     0.05.00     0.05.00     0.05.00       Att Non Raseleid     1.00     0.0	B. Martasin
Bruck Von Praeelekunden         Project Number         1300000         Project Number         110000000         Project Number         13000000000000000000000000000000000000	at YOn Rasefeld T N. California Blvd Project Number: 189-1614.06462 Remager: Alex Flacti N. California Blvd Project Number: 180-1614.06462 Remager: Alex Flacti Remager: Alex Fla	Contact #:
Image: Constraint of the constr	I. N. California Elvid     Project Kamager:     Alex Flecti       I. N. California Elvid     Project Kamager:     Alex Flecti       Be 600     Para Phones fr.     (625)     627-4627       Bilan Martashin     Field Constanct:     Brian Martashin       Antit Creek     Field Constanct:     Jacque Friede       Bilan Martashin     Lab Phones:     (623)       Constant     Lab Phones:     2040       Lab Phones:     (643)     769-7368       Lab Phones:     (643)     769-7368       Sold     Inti-Biffer(Bimwhglobal.com     Bostop Road       Matter     Eab Phones:     (643)       Anata     Data     Time       Containers     3.0     6       Sold     10/1/2009     10/1/2009       Sold     10/1/2009     10/1/2009       Sold     10/1/2009     2     0       Sold     10/1/2009     2     0       Sold     10/1/2009     2     0       Sold     10/1/2009     5/10     2       Sold     10/1/2009     5/	
Comparate     Compa	No.         Part Phone 6: 1011 (Creek           Field Contract:         Field Contract:         Brian Maritashin (1011 (Creek         Field Contract:         Jack - VLAL/070000/010, At system           206         Lab Names:         2040 (Savage Frode)         The Contract:         Jack - VLAL/07000/010, At system           201         Lab Names:         2040 (Savage Frode)         Chartestin (GAL) 709-7386         Food of system           202         Lab Phones:         2040 (Savage Frode)         Chartestin (GAL) 709-7386         Food of system           203         Lab Phones:         2040 (Savage Frode)         Food of system         Food of system           203         Lab Phones:         2040 (Savage Frode)         Food of system         Food of system           203         VLALX00         Resc         8         0         0         0           204         Resc         8         0         0         0         0         0           204         Resc         8         1011/12006         8         0         0         0         0         0         0         0         0         0         0         0         0	P
Trade Constant:         Prade Cons	Intl Creek     Flaud Contract:     Brian Martnesin       Intl Creek     Flaud Contract:     Bits     Intervention     Bits       1     Intl Creek     Flaud Contract:     Intervention     Intervention       1     Intl Creek     Intervention     Intervention     Intervention       1     Intervention     Intervention	erd
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All         All <td>Indefilen@mwhglobai.com         Lab Addresse:         2040 Savage Road           Indefilen@mwhglobai.com         Lab Phones:         Charkleston, SC 20407           Indefilen@mwhglobai.com         Lab Phones:         Charkleston, SC 20407           Indefilen@mwhglobai.com         Indefilenc@mwhglobai.com         Indefilenc@mwhglobai.com           Sold         104/12008         104/12008         104/12008         10546         2         5         0         5         5         0         5         0         5         0         5         0         5         0         5         0         5         0         5         0         5         0         5</td> <td>PH by TPH by TPH by S Sa by rabk PC F Sy 60 S011</td>	Indefilen@mwhglobai.com         Lab Addresse:         2040 Savage Road           Indefilen@mwhglobai.com         Lab Phones:         Charkleston, SC 20407           Indefilen@mwhglobai.com         Lab Phones:         Charkleston, SC 20407           Indefilen@mwhglobai.com         Indefilenc@mwhglobai.com         Indefilenc@mwhglobai.com           Sold         104/12008         104/12008         104/12008         10546         2         5         0         5         5         0         5         0         5         0         5         0         5         0         5         0         5         0         5         0         5         0         5	PH by TPH by TPH by S Sa by rabk PC F Sy 60 S011
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#### LABORATORY TASK ORDER (LTO) FORM

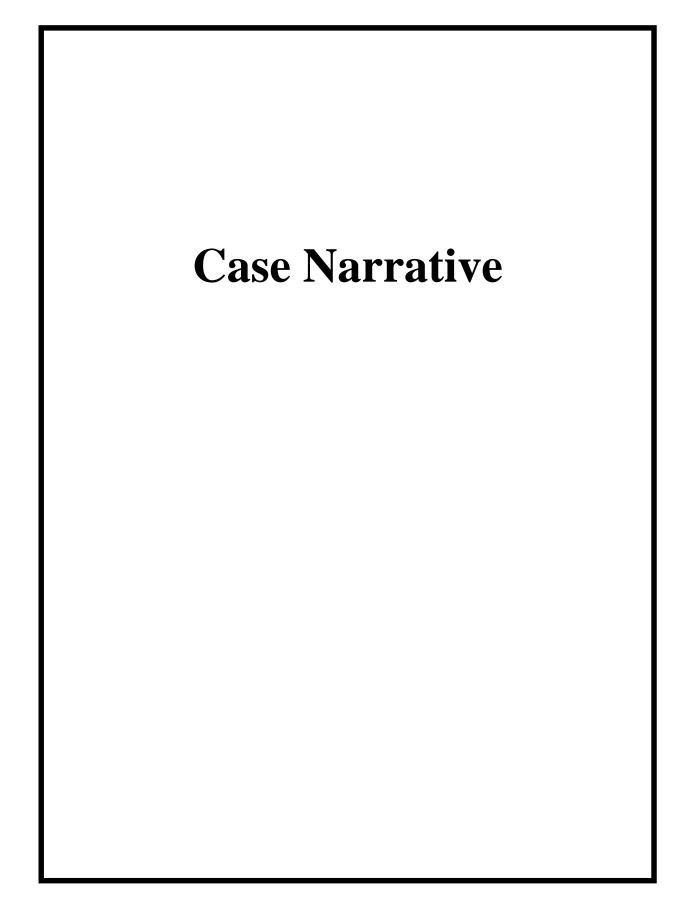
INSTRUCTIONS: To be completed by Environmental Contractor & Emailed to Laboratory Project Manager, CH2M HILL (boeingedms@ch2m.com) & the Data Validator at Least 48 hrs prior to need for sample containers. Project Analytical Laboratory will confirm receipt via E-Mail.

Event Name:	ISRA Sa	ampling, August 2009	Start:	8/24/2009	End:	9/30/2009
LTO DATE:			LTC	NUMBER:		
Consultant Name:		MWH	Contract Laboratory:		GEL	
	2121	N. California Blvd. Ste. 600		20	040 Savage F	Rd.
	W	alnut Creek, CA 94596		Cha	rleston, SC 2	9407
		· · · · · ·				
Contact Name:		Sarah Von Raesfeld	Lab Contact Name:		Jackie Trude	
Phone Number:		925-627-4654	Phone Number:		843-769-738	8
Fax Number:		925-627-4501	Fax Number:		843-766-117	8
E-mail Address:	<u>Sarah</u>	.VonRaesfeld@mwhglobal.com	E-mail Address:	jacque	line.trudell@g	gel.com
		SAMPLE C	ONTAINER ORDER FORM			
Date Required:			Requested Analyses:	(Sp	pecify # of Sam	oles)
				Water	Soil	Contingent
			Dioxins (1613B)	15	124	0
Date Sample Pickup:			EPA 8015M (DRO)			
			EPA 8015M (JET FUEL)			
Ship Containers To:			EPA 8015M (CC)			
Project Site		(enter "X")	TCE (8260B)	5	12	0
Consultant Office		(enter "X")	EPA 8270C SIM (SVOC)			
Other Location (specify in			EPA 8310 (PAH)			
comments)		(enter "X")	EPA 8082 (PCB)	3	5	0
			Nickel (6020)	5	10	0
<b>Container Information</b>	:		Chromium (6020)	5	10	0
Trip Blank (VOA only)	No	(Yes/No)	Silver (6020)	5	10	0
Temp Blank (VOA Only)	No	(Yes/No)	Cadmium (6020)	10	35	0
DI Water Required?	No	(Yes/No)	Arsenic (6020)	5	10	0
MS/MSD Extra Bottles?	No	(Yes/No)	% Moisture (D2216)	0	170	0
			Lead (6020)	10	65	0
Sample Matrix:			Copper (6020)	10	75	0
Soil	Х	(select all applicable)	Zinc (6020)	5	20	0
Water	X	(select all applicable)	Mercury by 7471A/7470A	5	25	0
Vapor		(select all applicable)			1	
			10			
Est. Total # of Samples:	175	Est. Total # of EDDs				
Project TAT		LABORATORY	EPORTING REQUIREMENTS Laboratory Results/Repo	rte Dolivor	ablacy	
Project TAT:	V			rts Delivera		
Normal:		(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 Fax/E-mail Contact			
Report Due Date:				Sarah.VonRae	sfeld@mwhgloba	al.com
			- Send Original Reports To:			
Special Reporting Rec	uirem	ents:	Project Site		(enter "X")	
Contingent Analysis?	-	(Yes/No)	Consultant Office		(enter "X")	
Contingent Analysis:	110	_(163/10)	-		-	
TIC (VOC) Required?	No	(Yes/No)	Other Location (specify			
TIC (SVOC) Required?	-	(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	ISTRUCTIONS/LTO NOTES			
				-		
		CONFIRMATION	I OF TRANSMITTAL & RECEIPT			
LTO Sent By:			LTO Received By-			
Name:	Sarah V	on Raesfeld	Name:			
	09/02/09		Date:			
Dale.	55/02/08	<u>,                                    </u>				

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LC/MS/MS Perchlorate Analysis Sample Data Summary Quality Control Summary Sample Data Standards Data Quality Control Miscellaneous Data	1375 1392 1424 1457 1481
GC Semivolatile DRO Analysis Sample Data Summary Quality Control Summary Sample Data Standards Data Quality Control Data MIscellaneous Data GC Semivolatile PCB Analysis	1505 1525 1535 1641 1687 1715
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Case Narrative for Boeing - SSFL (MWH) Work Order: 238234 SDG: 238234

October 27, 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 October 02, 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>
238234001	EBQW2249
238234002	HVBF33AS01
238234003	HVBF33AS02
238234004	HZBS0080AS001
238234005	HZBS0080AS002
238234006	HZBS0082AS001
238234007	HZBS0082AS002
238234008	HZBS0084AS001
238234009	HZBS0084AS002
238234010	HZBS0123AS001
238234011	HZBS0123AS002
238234012	HZBS0124AS001
238234013	HZBS0124AS002
238234014	HZBS0175S001
238234015	HZBS0175S002
238234016	HZBS0177S001
238234017	HZBS0177S002
238234018	HZBS0180S001
238234019	HZBS0180S002

#### **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.

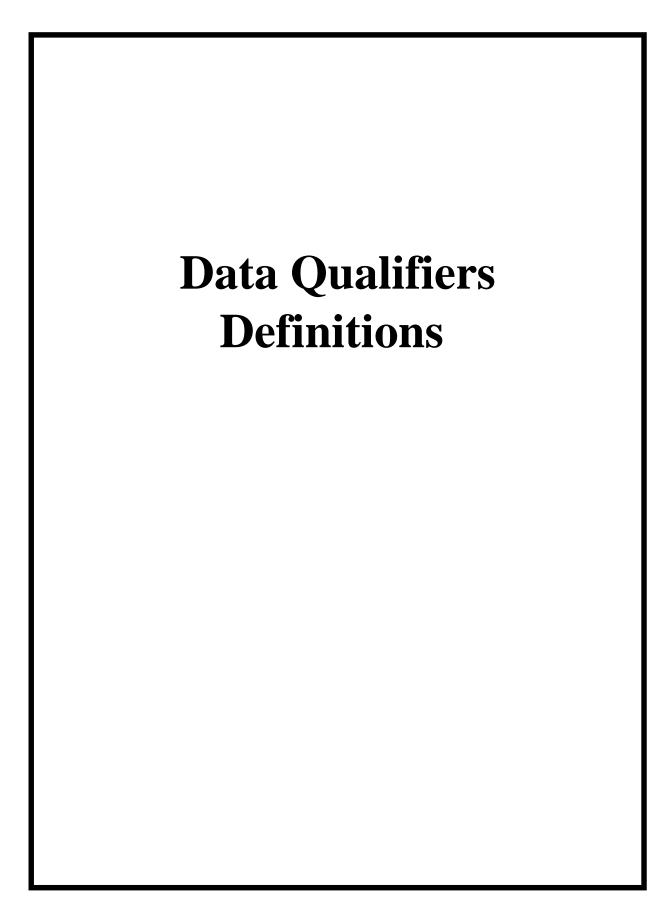
#### Data Package:

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, General Chemistry, Metals, Perchlorates by LCMSMS, Percent Moisture and Dioxins (Cape Fear Analytical).

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

Jacqueline a Judit

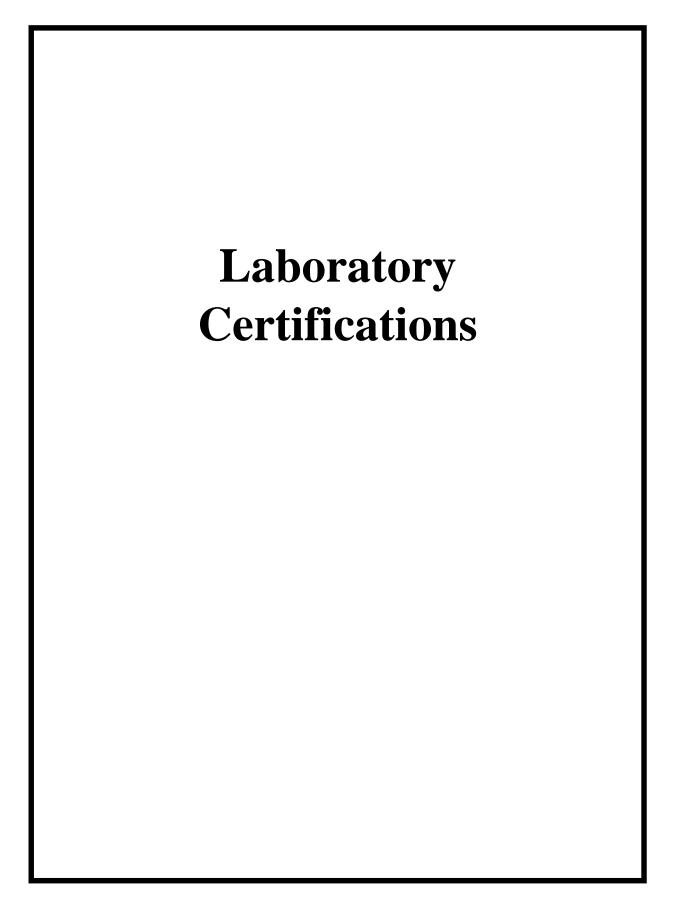
Jacqueline Trudell Project Manager



#### 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 27 October 2009



# DATA VALIDATION REPORT

Boeing SSFL RFI ISRA

SAMPLE DELIVERY GROUP: 238234

Prepared by

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

#### I. INTRODUCTION

Matrix: water/ QC Level: V/IV No. of Samples: 19 No. of Reanalyses/Dilutions: 0	Hambrick
Laboratory: Gel	

#### Table 1. Sample Identification

Sample Name	Lab Sample Name	Sub-Lab Sample Name	Matrix	Collection	Method
EBQW2249	238234001	1090001	Water	10/1/2009 3:30:00 PM	1613B, 6010B, 6020, 7470A, 8015B, 8082, 8270C
HVBF33AS01	238234002	1086007	Soil	10/1/2009 10:18:00 AM	1613B, 8015B, 8082, 8270C
HVBF33AS02	238234003	1086008	Soil	10/1/2009 10:40:00 AM	1613B, 8015B, 8082, 8270C
HZBS0080AS001	238234004	N/A	Soil	10/1/2009 2:35:00 PM	314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0080AS002	238234005	N/A	Soil	10/1/2009 2:45:00 PM	314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0082AS001	238234006	N/A	Soil	10/1/2009 8:30:00 AM	314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0082AS002	238234007	N/A	Soil	10/1/2009 9:05:00 AM	314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0084AS001	238234008	N/A	Soil	10/1/2009 7:50:00 AM	314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0084AS002	238234009	N/A	Soil	10/1/2009 8:15:00 AM	314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0123AS001	238234010	N/A	Soil	10/1/2009 1:15:00 PM	314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0123AS002	238234011	N/A	Soil	10/1/2009 1:30:00 PM	314.0, 6010B, 6020, 6850, 7471A, 8015B,

					8082, 8270C
HZBS0124AS001	238234012	N/A	Soil	10/1/2009 11:00:00 AM	314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C SIM
HZBS0124AS002	238234013	N/A	Soil	10/1/2009 12:30:00 PM	314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0175S001	238234014	1086001	Soil	10/1/2009 1:50:00 PM	1613B, 314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0175S002	238234015	1086002	Soil	10/1/2009 2:10:00 PM	1613B, 314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0177S001	238234016	1086003	Soil	10/1/2009 3:00:00 PM	1613B, 314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0177S002	238234017	1086004	Soil	10/1/2009 3:15:00 PM	1613B, 314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0180S001	238234018	1086005	Soil	10/1/2009 9:30:00 AM	1613B, 314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C
HZBS0180S002	238234019	1086006	Soil	10/1/2009 10:00:00 AM	1613B, 314.0, 6010B, 6020, 6850, 7471A, 8015B, 8082, 8270C

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

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.
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 1613—Dioxin/Furans

Reviewed By: P. Meeks Date Reviewed: November 2, 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 (08/02).

- 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: The aqueous method blank had detects below the PQL for 12 target compounds; however, there were no target compounds detected above the EDL in the associated sample. The soil method blank had detects below the PQL for all but five of the target compounds. Detects less than the reporting limit or less than 5x the method blank detect for 1,2,3,4,6,7,8-HpCDF and OCDD were qualified as nondetected, "U," at the EDL or the level of contamination. Detected results for all totals except total TCDD were qualified as estimated, "J," due to detects in the soil method blank.
- Blank Spikes and Laboratory Control Samples: Recoveries were within the acceptance criteria listed in Table 6 of Method 1613. The 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: FBQW2239 (235913) was the field blank associated with the samples in this SDG; however, the sample was not analyzed for dioxins. EBQW2249 was identified as the equipment rinsate associated with the samples in this SDG. There were no detects above the EDL in this sample.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.
- 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. The laboratory did not perform a confirmation analysis for 2,3,7,8-TCDF in HZBS0180S002; therefore, this detect was qualified as estimated, "J." The laboratory performed confirmation analyses for all remaining 2,3,7,8-TCDF detects. As the confirmation results yielded results similar to the original results, the confirmation results were rejected, "R," in favor of the original results.
- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. (EMPCs) were identified in the sample of this SDG, as denoted by the laboratory "K," code. For individual isomers identified as EMPCs, the results were qualified as estimated nondetects, "UJ." Totals reported as EMPCs were qualified as estimated, "J," as only a portion of the total was identified as an EMPC. The laboratory calculated and reported compound-specific detection limits. Any detect below the laboratory lower calibration level was qualified as estimated, "J." Nondetects are valid to the estimated detection limit (EDL).

#### B. EPA METHODS 6010B, 6020, 7470A/7471A—Metals and Mercury

Reviewed By: P. Meeks Date Reviewed: November 2, 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 6010B, 6020, 7470A/7471A, and the National Functional Guidelines for Inorganic Data Review (7/02).

- Holding Times: Analytical holding times, six months for ICP and 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: Thallium and antimony were detected in bracketing CCBs at 0.315 and 3.33 μg/L, respectively; therefore, thallium detected in EBQW2249 was qualified as nondetected, "U," at the reporting limit and antimony detected in HZBS0080AS002, HZBS0082AS002, HZBS0084AS001, HZBS0084AS002, HZBS0123AS001, HZBS0123AS001, HZBS0124AS001, HZBS0124AS002, HZBS0175AS002, HZBS0177AS002, HZBS0180AS001, and HZBS0180AS002. Mercury was reported in a bracketing CCB at 0.117 μg/L; therefore, mercury in the soil samples was qualified as estimated, "J," for detects and, "UJ," for nondetects. Method blanks and CCBs had no other applicable detects.

- Interference Check Samples: Review is not applicable at a Level V validation; however, the reviewer noted that antimony was reported and boron was detected in the ICSA at -7.22 and 24.2 µg/L, respectively. Antimony and boron detected in the soil samples were qualified as estimated, "J," and nondetected antimony in the soil samples was qualified as estimated, "UJ."
- Blank Spikes and Laboratory Control Samples: Mercury was recovered above the control limit in the aqueous LCS; however, mercury was not detected in the associated sample. All remaining recoveries and all aqueous RPDs were within laboratory-established QC limits.
- Laboratory Duplicates: Laboratory duplicate analyses were performed on HZBS0080AS001 for the 6010B analytes and mercury only. The RPDs were within the method-established control limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HZBS0080AS001 for the 6010B analytes and mercury only. All recoveries and RPDs were within laboratory-established QC limits.
- Serial Dilution: Serial dilution analyses were performed on EBQW2249 with acceptable results. Serial dilution analyses were also performed on HZBS0080AS001 for the 6010B analytes and mercury only. The %Ds were within the method-established control limits.
- 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. Vanadium in the soil samples was analyzed at a 10x dilution in order to report the analyte within the linear range of the instrument. All remaining soil ICP-MS analytes were reported from the laboratory's standard 2x 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: FBQW2239 (235913) was the field blank and EBQW2249 was the equipment rinsate associated with the samples in this SDG. There were no detects in either sample.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.

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

Reviewed By: P. Meeks Date Reviewed: November 2, 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: Extraction and analytical holding times were met. The aqueous sample was extracted within seven days of collection and the soil samples were extracted within 14 days of collection. All samples were analyzed 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 aqueous method blank at 0.161 µg/L; therefore, bis(2-ethylhexyl)phthalate detected in EBQW2249 was qualified as nondetected, "U," at the reporting limit. 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 HVBF33AS02. The RPD for benzo(g,h,i)perylene exceeded the control limit. All recoveries and all remaining RPDs were within 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: FBQW2239 (235913) was the field blank and EBQW2248 was the equipment rinsate associated with the samples in this SDG. There were no reportable detects in either 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 PAH compounds and added phthalates by Method 8270C low-level.

- 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 METHODS 314.0 and 6850—Perchlorate

Reviewed By: P. Meeks, E. Wessling Date Reviewed: November 2, 2009, October 29, 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 Metals (DVP-20, Rev. 0), EPA Methods 314.0 and 6850, and the National Functional Guidelines for Inorganic Data Review (7/02).

- Holding Times: The analytical holding time, 28 days, was met.
- Calibration: Review is not applicable at a Level V validation for the 314.0 analysis. Calibration for method 6850 data was reviewed and found to be acceptable.
- Blanks: Method blanks and CCBs had no detects. Method 6850 data had no false negatives or false positives.
- Blank Spikes and Laboratory Control Samples: The recoveries were within the 6850 and 314.0 method-established QC limits of 80-120% and 85-115%, respectively. The recovery for the 6850 LCS was within the laboratory-established control limit.
- Laboratory Duplicates: A laboratory duplicate analysis was performed on HZBS0082AS002 and HZBS0175S002 for perchlorate by 314.0. The RPDs were within the method-established control limit of ≤15%.
- Matrix Spike/Matrix Spike Duplicate: A matrix spike analysis was performed on HZBS0082AS002 and HZBS0175S002 for perchlorate analyzed by 314.0, the recoveries were within the method-established control limit of 80-120%. MS/MSD analyses were performed on HZBS0080AS002 for perchlorate analyzed by 6850. Recoveries and RPDs were within method-established QC limits of 80-120% and ≤20%, respectively.
- Sample Result Verification: The sample results reported on the sample result summary were verified against the raw data. Sample results for the 6850 method were recalculated by the reviewer and found to be acceptable. No transcription errors or calculation errors were noted. Reported nondetects are valid to the reporting limit.

- 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: FBQW2239 (235913) was the field blank and EBQW2249 was the equipment rinsate associated with the samples in this SDG. Perchlorate was not detected by 314.0 in either sample.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.

#### E. EPA METHOD 8082—PCBs

Reviewed By: P. Meeks Date Reviewed: November 2, 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).

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: Extraction and analytical holding times were met. The aqueous sample was extracted within seven days of collection and the soil samples were extracted within 14 days of collection. All samples were analyzed within 40 days of extraction.
- 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: Recoveries 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 in this SDG. Method accuracy was evaluated based on LCS 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:

- Field Blanks and Equipment Rinsates: FBQW2239 (235913) was the field blank and EBQW2249 was the equipment rinsate associated with the samples in this SDG. There were no detects above the MDL in either sample.
- 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. Although not generally reviewed at Level V validation, the laboratory flagged Aroclor-1260 in HZBS0123AS001 as having an intercolumn %D greater than 40%. The result was qualified as estimated, "J."
- 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.

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

Reviewed By: P. Meeks Date Reviewed: November 2, 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 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 aqueous sample was extracted within seven days of collection and the soil samples were extracted within 14 days of collection. All samples were analyzed within 40 days of extraction.
- Calibration: Review is not applicable at a Level V validation.
- Blanks: Method blanks had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and the aqueous RPD were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HVBF33AS01. Recoveries and the RPD were within 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: FBQW2239 (235913) was the field blank and EBQW2249 was the equipment rinsate associated with the samples in this SDG. FBQW2239 was not analyzed by 8015 and there were no detects above the MDL in EBQW2249.
- 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: 238234

Sample Name	EBQW2249		Matrix [	Type: Water	<b>Result Type:</b> Primary Result		
Lab Sample Name:	1090001	Sample I	Date: 1	0/1/2009 3:30:00 PM	Validation Level: V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	4.73	25.9	4.73 pg/L	U	U	
1,2,3,4,6,7,8-HpCDF	67562394	2.47	25.9	2.47 pg/L	U	U	
1,2,3,4,7,8,9-HpCDF	55673897	4.96	25.9	4.96 pg/L	U	U	
1,2,3,4,7,8-HxCDD	39227286	2.38	25.9	2.38 pg/L	U	U	
1,2,3,4,7,8-HxCDF	70648269	1.46	25.9	1.46 pg/L	U	U	
1,2,3,6,7,8-HxCDD	57653857	2.61	25.9	2.61 pg/L	U	U	
1,2,3,6,7,8-HxCDF	57117449	1.46	25.9	1.46 pg/L	U	U	
1,2,3,7,8,9-HxCDD	19408743	2.61	25.9	2.61 pg/L	U	U	
1,2,3,7,8,9-HxCDF	72918219	2.53	25.9	2.53 pg/L	U	U	
1,2,3,7,8-PeCDD	40321764	1.56	25.9	1.56 pg/L	U	U	
1,2,3,7,8-PeCDF	57117416	1.15	25.9	1.15 pg/L	U	U	
2,3,4,6,7,8-HxCDF	60851345	1.47	25.9	1.47 pg/L	U	U	
2,3,4,7,8-PeCDF	57117314	1.19	25.9	1.19 pg/L	U	U	
2,3,7,8-TCDD	1746016	1.79	5.18	1.79 pg/L	U	U	
2,3,7,8-TCDF	51207319	2.16	5.18	2.16 pg/L	U	U	
OCDD	3268879	10.9	51.8	10.9 pg/L	U	U	
OCDF	39001020	10.7	51.8	10.7 pg/L	U	U	
Fotal HpCDD	37871004	4.73	25.9	4.73 pg/L	U	U	
Fotal HpCDF	38998753	2.47	25.9	2.47 pg/L	U	U	
Fotal HxCDD	34465468	2.38	25.9	2.38 pg/L	U	U	
Fotal HxCDF	55684941	1.46	25.9	1.46 pg/L	U	U	
Fotal PeCDD	36088229	1.56	25.9	1.56 pg/L	U	U	
Fotal PeCDF	30402154	1.15	25.9	1.15 pg/L	U	U	
Total TCDD	41903575	1.79	5.18	1.79 pg/L	U	U	
Fotal TCDFs	55722275	2.16	5.18	2.16 pg/L	U	U	

Sample Name	HVBF33AS01		Matrix 7	Res	Result Type: Primary Result			
Lab Sample Name:	1086007	Sample 1	Date: 1	0/1/2009 10:18:00 A	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	4.47	4.47	4.47 pg/g	JK	UJ	*III result changed from 2.19 and EDL from 0.515	
1,2,3,4,6,7,8-HpCDF	67562394	4.47	4.47	4.47 pg/g	JK	UJ	*III result changed from 0.715 and EDL from 0.247	
1,2,3,4,7,8,9-HpCDF	55673897	0.469	4.47	0.469 pg/g	U	U		
1,2,3,4,7,8-HxCDD	39227286	0.299	4.47	0.299 pg/g	U	U		
1,2,3,4,7,8-HxCDF	70648269	0.188	4.47	0.188 pg/g	U	U		
1,2,3,6,7,8-HxCDD	57653857	0.297	4.47	0.297 pg/g	U	U		
1,2,3,6,7,8-HxCDF	57117449	0.193	4.47	0.193 pg/g	U	U		
1,2,3,7,8,9-HxCDD	19408743	0.313	4.47	0.313 pg/g	U	U		
1,2,3,7,8,9-HxCDF	72918219	0.299	4.47	0.299 pg/g	U	U		
1,2,3,7,8-PeCDD	40321764	0.193	4.47	0.193 pg/g	U	U		
1,2,3,7,8-PeCDF	57117416	0.184	4.47	0.174 pg/g	J	J		
2,3,4,6,7,8-HxCDF	60851345	0.202	4.47	0.202 pg/g	U	U		
2,3,4,7,8-PeCDF	57117314	0.176	4.47	0.176 pg/g	U	U		
2,3,7,8-TCDD	1746016	0.181	0.894	0.181 pg/g	U	U		
2,3,7,8-TCDF	51207319	0.334	0.894	0.146 pg/g	J	R	D	
2,3,7,8-TCDF	51207319	0.356	0.894	0.306 pg/g	J	J		
OCDD	3268879	15.8	8.94	1.15 pg/g				
DCDF	39001020	1.01	8.94	1.01 pg/g	U	U		
Fotal HpCDD	37871004	5.76		0.515 pg/g		J	B, *III	
Total HpCDF	38998753	1.23		0.247 pg/g		J	B, *III	
Fotal HxCDD	34465468	0.96		0.297 pg/g		J	В	
Fotal HxCDF	55684941	0.937		0.188 pg/g		J	В	
Fotal PeCDD	36088229	0.193		0.193 pg/g	U	U		
Total PeCDF	30402154	1.01		0.116 pg/g		J	В	
Total TCDD	41903575	0.249		0.181 pg/g				
Total TCDFs	55722275	0.356		0.306 pg/g	В	J	В	

Sample Name	HVBF33AS02		Matrix '	Fype: Soil	Res	<b>Result Type:</b> Primary Result			
Lab Sample Name:	1086008	Sample	Date: 1	0/1/2009 10:40:00 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	0.519	4.83	0.519 pg/g	U	U			
1,2,3,4,6,7,8-HpCDF	67562394	0.276	4.83	0.276 pg/g	U	U			
1,2,3,4,7,8,9-HpCDF	55673897	0.531	4.83	0.531 pg/g	U	U			
1,2,3,4,7,8-HxCDD	39227286	0.251	4.83	0.251 pg/g	U	U			
1,2,3,4,7,8-HxCDF	70648269	0.181	4.83	0.181 pg/g	U	U			
1,2,3,6,7,8-HxCDD	57653857	0.286	4.83	0.286 pg/g	U	U			
1,2,3,6,7,8-HxCDF	57117449	0.181	4.83	0.181 pg/g	U	U			
1,2,3,7,8,9-HxCDD	19408743	0.282	4.83	0.282 pg/g	U	U			
1,2,3,7,8,9-HxCDF	72918219	0.284	4.83	0.284 pg/g	U	U			
1,2,3,7,8-PeCDD	40321764	0.17	4.83	0.17 pg/g	U	U			
1,2,3,7,8-PeCDF	57117416	0.14	4.83	0.14 pg/g	U	U			
2,3,4,6,7,8-HxCDF	60851345	0.195	4.83	0.195 pg/g	U	U			
2,3,4,7,8-PeCDF	57117314	0.143	4.83	0.143 pg/g	U	U			
2,3,7,8-TCDD	1746016	0.237	0.965	0.237 pg/g	U	U			
2,3,7,8-TCDF	51207319	0.359	0.965	0.116 pg/g	JK	R	D		
2,3,7,8-TCDF	51207319	0.278	0.965	0.253 pg/g	J	J			
OCDD	3268879	1.17	9.65	1.17 pg/g	U	U			
OCDF	39001020	1.05	9.65	1.05 pg/g	U	U			
Гotal HpCDD	37871004	0.519		0.519 pg/g	U	U			
Fotal HpCDF	38998753	0.276		0.276 pg/g	U	U			
Fotal HxCDD	34465468	0.251		0.251 pg/g	U	U			
Гotal HxCDF	55684941	0.181		0.181 pg/g	U	U			
Fotal PeCDD	36088229	0.17		0.17 pg/g	U	U			
Fotal PeCDF	30402154	0.14		0.14 pg/g	U	U			
Fotal TCDD	41903575	0.237		0.237 pg/g	U	U			
Fotal TCDFs	55722275	0.6		0.253 pg/g	В	J	В		

Sample Name	HZBS0175S001		<b>Result Type:</b> Primary Result						
Lab Sample Name:	1086001	Sample Date: 10/1/2009 1:50:00 PM				Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
1,2,3,4,6,7,8-HpCDD	35822469	2.42	4.2	0.504 pg/g	J	J			
1,2,3,4,6,7,8-HpCDF	67562394	4.2	4.2	4.2 pg/g	J	U	B, result changed from 0.547 and EDL from 0.243		
1,2,3,4,7,8,9-HpCDF	55673897	0.465	4.2	0.465 pg/g	U	U			
1,2,3,4,7,8-HxCDD	39227286	0.242	4.2	0.242 pg/g	U	U			
1,2,3,4,7,8-HxCDF	70648269	0.161	4.2	0.161 pg/g	U	U			
1,2,3,6,7,8-HxCDD	57653857	0.27	4.2	0.27 pg/g	U	U			
1,2,3,6,7,8-HxCDF	57117449	0.18	4.2	0.18 pg/g	U	U			
1,2,3,7,8,9-HxCDD	19408743	0.269	4.2	0.269 pg/g	U	U			
1,2,3,7,8,9-HxCDF	72918219	0.274	4.2	0.274 pg/g	U	U			
1,2,3,7,8-PeCDD	40321764	0.18	4.2	0.18 pg/g	U	U			
1,2,3,7,8-PeCDF	57117416	4.2	4.2	4.2 pg/g	JK	UJ	*III result changed from 0.306 and EDL from 0.183		
2,3,4,6,7,8-HxCDF	60851345	0.188	4.2	0.188 pg/g	U	U			
2,3,4,7,8-PeCDF	57117314	0.19	4.2	0.19 pg/g	U	U			
2,3,7,8-TCDD	1746016	0.215	0.839	0.215 pg/g	U	U			
2,3,7,8-TCDF	51207319	0.341	0.839	0.165 pg/g	J	R	D		
2,3,7,8-TCDF	51207319	0.306	0.839	0.306 pg/g	U	U			
OCDD	3268879	18.9	8.39	1.54 pg/g					
OCDF	39001020	1.16	8.39	1.16 pg/g	U	U			
Fotal HpCDD	37871004	6.33		0.504 pg/g		J	В		
Fotal HpCDF	38998753	1.33		0.243 pg/g		J	В		
Fotal HxCDD	34465468	0.819		0.242 pg/g		J	В		
Fotal HxCDF	55684941	0.846		0.161 pg/g		J	В		
Fotal PeCDD	36088229	0.18		0.18 pg/g	U	U			
Fotal PeCDF	30402154	1.28		0.116 pg/g		J	В, *Ш		
Total TCDD	41903575	0.215		0.215 pg/g	U	U			
Total TCDFs	55722275	0.306		0.306 pg/g	U	U			

Sample Name	HZBS0175S002		Matrix	Type: Soil	<b>Result Type:</b> Primary Result				
Lab Sample Name:	1086002	Sample Date:         10/1/2009 2:10:00 PM				Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
,2,3,4,6,7,8-HpCDD	35822469	0.443	4.26	0.443 pg/g	U	U			
,2,3,4,6,7,8-HpCDF	67562394	0.198	4.26	0.198 pg/g	U	U			
,2,3,4,7,8,9-HpCDF	55673897	0.401	4.26	0.401 pg/g	U	U			
,2,3,4,7,8-HxCDD	39227286	0.246	4.26	0.246 pg/g	U	U			
,2,3,4,7,8-HxCDF	70648269	0.156	4.26	0.156 pg/g	U	U			
,2,3,6,7,8-HxCDD	57653857	0.264	4.26	0.264 pg/g	U	U			
1,2,3,6,7,8-HxCDF	57117449	0.155	4.26	0.155 pg/g	U	U			
1,2,3,7,8,9-HxCDD	19408743	0.268	4.26	0.268 pg/g	U	U			
1,2,3,7,8,9-HxCDF	72918219	0.242	4.26	0.242 pg/g	U	U			
1,2,3,7,8-PeCDD	40321764	0.171	4.26	0.171 pg/g	U	U			
1,2,3,7,8-PeCDF	57117416	0.124	4.26	0.124 pg/g	U	U			
2,3,4,6,7,8-HxCDF	60851345	0.159	4.26	0.159 pg/g	U	U			
2,3,4,7,8-PeCDF	57117314	0.117	4.26	0.117 pg/g	U	U			
2,3,7,8-TCDD	1746016	0.181	0.853	0.181 pg/g	U	U			
2,3,7,8-TCDF	51207319	0.278	0.853	0.129 pg/g	J	R	D		
2,3,7,8-TCDF	51207319	0.307	0.853	0.225 pg/g	J	J			
OCDD	3268879	8.53	8.53	8.53 pg/g	J	U	B, result changed from 2.55 and EDL from 1.03		
DCDF	39001020	0.941	8.53	0.941 pg/g	U	U			
Fotal HpCDD	37871004	0.631		0.443 pg/g		J	В		
Fotal HpCDF	38998753	0.198		0.198 pg/g	U	U			
Fotal HxCDD	34465468	0.246		0.246 pg/g	U	U			
Total HxCDF	55684941	0.155		0.155 pg/g	U	U			
Total PeCDD	36088229	0.171		0.171 pg/g	U	U			
Total PeCDF	30402154	0.121		0.105 pg/g		J	В		
Fotal TCDD	41903575	0.181		0.181 pg/g	U	U			
Fotal TCDFs	55722275	0.307		0.225 pg/g	В	J	В		

Sample Name	HZBS0177S001		Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	1086003	Sample l	Date: 1	0/1/2009 3:00:00 PM	<b>T</b>	alidation Le	vel: 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	4.39	4.08	0.608 pg/g			
1,2,3,4,6,7,8-HpCDF	67562394	4.08	4.08	4.08 pg/g	J	U	B, result changed from 0.874 and EDL from 0.265
1,2,3,4,7,8,9-HpCDF	55673897	0.485	4.08	0.485 pg/g	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.284	4.08	0.284 pg/g	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.168	4.08	0.168 pg/g	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.314	4.08	0.314 pg/g	U	U	
1,2,3,6,7,8-HxCDF	57117449	4.08	4.08	4.08 pg/g	ЈК	UJ	*III, result changed from 0.201 and EDL from 0.19
1,2,3,7,8,9-HxCDD	19408743	0.314	4.08	0.314 pg/g	U	U	
1,2,3,7,8,9-HxCDF	72918219	0.291	4.08	0.291 pg/g	U	U	
1,2,3,7,8-PeCDD	40321764	4.08	4.08	4.08 pg/g	JK	UJ	*III, result changed from 0.268 and EDL from 0.206
1,2,3,7,8-PeCDF	57117416	4.08	4.08	4.08 pg/g	JK	UJ	*III result changed from 0.343 and EDL from 0.25
2,3,4,6,7,8-HxCDF	60851345	0.203	4.08	0.203 pg/g	U	U	
2,3,4,7,8-PeCDF	57117314	4.08	4.08	4.08 pg/g	JK	UJ	*III result changed from 0.291 and EDL from 0.247
2,3,7,8-TCDD	1746016	0.199	0.817	0.199 pg/g	U	U	
2,3,7,8-TCDF	51207319	0.817	0.817	0.817 pg/g	ЈК	UJ	*III result changed from 0.472 and EDL from 0.337
2,3,7,8-TCDF	51207319	0.485	0.817	0.145 pg/g	JK	R	D
OCDD	3268879	37.3	8.17	1.24 pg/g			
OCDF	39001020	2	8.17	1 pg/g	J	J	
Total HpCDD	37871004	11.2		0.608 pg/g		J	В
Total HpCDF	38998753	1.65		0.265 pg/g		J	В
Total HxCDD Thursday, November 12,	34465468 2009	1.65		0.284 pg/g		1	B Page 6 of

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Total HxCDF	55684941	2	0.168 pg/g	1	B, *III
Total PeCDD	36088229	0.536	0.206 pg/g	J	B, *III
Total PeCDF	30402154	2.54	0.116 pg/g	J	B, *III
Total TCDD	41903575	0.361	0.199 pg/g		
Total TCDFs	55722275	1.68	0.337 pg/g B	J	B, *III

Sample Name	HZBS0177S002		Matrix [	<b>Fype:</b> Soil	Result Type: Primary Result				
Lab Sample Name:	1086004	Sample	Date: 1	0/1/2009 3:15:00 PM	Validation Level: $V$				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
1,2,3,4,6,7,8-HpCDD	35822469	0.449	3.66	0.449 pg/g	U	U			
1,2,3,4,6,7,8-HpCDF	67562394	0.192	3.66	0.192 pg/g	U	U			
1,2,3,4,7,8,9-HpCDF	55673897	0.367	3.66	0.367 pg/g	U	U			
1,2,3,4,7,8-HxCDD	39227286	0.209	3.66	0.209 pg/g	U	U			
1,2,3,4,7,8-HxCDF	70648269	0.143	3.66	0.143 pg/g	U	U			
1,2,3,6,7,8-HxCDD	57653857	0.235	3.66	0.235 pg/g	U	U			
1,2,3,6,7,8-HxCDF	57117449	0.148	3.66	0.148 pg/g	U	U			
1,2,3,7,8,9-HxCDD	19408743	0.232	3.66	0.232 pg/g	U	U			
1,2,3,7,8,9-HxCDF	72918219	0.224	3.66	0.224 pg/g	U	U			
1,2,3,7,8-PeCDD	40321764	0.138	3.66	0.138 pg/g	U	U			
1,2,3,7,8-PeCDF	57117416	0.105	3.66	0.105 pg/g	U	U			
2,3,4,6,7,8-HxCDF	60851345	0.148	3.66	0.148 pg/g	U	U			
2,3,4,7,8-PeCDF	57117314	0.102	3.66	0.102 pg/g	U	U			
2,3,7,8-TCDD	1746016	0.173	0.731	0.173 pg/g	U	U			
2,3,7,8-TCDF	51207319	0.731	0.731	0.731 pg/g	JK	UJ	*III result changed from 0.284 and EDL from 0.192		
2,3,7,8-TCDF	51207319	0.328	0.731	0.104 pg/g	JK	R	D		
OCDD	3268879	7.31	7.31	7.31 pg/g	JK	UJ	*III result changed from 1.13 and EDL from 0.947		
OCDF	39001020	0.943	7.31	0.943 pg/g	U	U			
Total HpCDD	37871004	0.449		0.449 pg/g	U	U			
Total HpCDF	38998753	0.192		0.192 pg/g	U	U			
Total HxCDD	34465468	0.209		0.209 pg/g	U	U			
Total HxCDF	55684941	0.143		0.143 pg/g	U	U			
Total PeCDD	36088229	0.138		0.138 pg/g	U	U			
Total PeCDF	30402154	0.102		0.102 pg/g	U	U			
Total TCDD	41903575	0.173		0.173 pg/g	U	U			
Total TCDFs	55722275	0.526		0.192 pg/g	В	J	B, *III		

Sample Name	HZBS0180S001		Matrix 1	Fype: Soil	<b>Result Type:</b> Primary Result					
Lab Sample Name:	1086005	Sample	Date: 1	0/1/2009 9:30:00 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	1.93	4.48	0.544 pg/g	J	J				
1,2,3,4,6,7,8-HpCDF	67562394	4.48	4.48	4.48 pg/g	J	U	B, result changed from 0.431 and EDL from 0.228			
1,2,3,4,7,8,9-HpCDF	55673897	0.484	4.48	0.484 pg/g	U	U				
1,2,3,4,7,8-HxCDD	39227286	0.267	4.48	0.267 pg/g	U	U				
1,2,3,4,7,8-HxCDF	70648269	0.161	4.48	0.161 pg/g	U	U				
1,2,3,6,7,8-HxCDD	57653857	0.305	4.48	0.305 pg/g	U	U				
1,2,3,6,7,8-HxCDF	57117449	0.181	4.48	0.181 pg/g	U	U				
1,2,3,7,8,9-HxCDD	19408743	0.3	4.48	0.3 pg/g	U	U				
1,2,3,7,8,9-HxCDF	72918219	0.267	4.48	0.267 pg/g	U	U				
1,2,3,7,8-PeCDD	40321764	0.201	4.48	0.201 pg/g	U	U				
1,2,3,7,8-PeCDF	57117416	0.159	4.48	0.159 pg/g	U	U				
2,3,4,6,7,8-HxCDF	60851345	0.179	4.48	0.179 pg/g	U	U				
2,3,4,7,8-PeCDF	57117314	4.48	4.48	4.48 pg/g	JK	UJ	*III result changed from 0.213 and EDL from 0.152			
2,3,7,8-TCDD	1746016	0.208	0.897	0.208 pg/g	U	U				
2,3,7,8-TCDF	51207319	0.386	0.897	0.137 pg/g	J	R	D			
2,3,7,8-TCDF	51207319	0.335	0.897	0.305 pg/g	J	J				
OCDD	3268879	13.8	8.97	1.09 pg/g						
OCDF	39001020	1.24	8.97	1.24 pg/g	U	U				
Total HpCDD	37871004	5.24		0.544 pg/g		J	В			
Total HpCDF	38998753	0.431		0.228 pg/g		J	В			
Total HxCDD	34465468	0.773		0.267 pg/g		J	В			
Total HxCDF	55684941	0.353		0.161 pg/g		J	В			
Total PeCDD	36088229	0.201		0.201 pg/g	U	U				
Total PeCDF	30402154	1.24		0.109 pg/g		J	B, *III			
Total TCDD	41903575	0.208		0.208 pg/g	U	U				
Total TCDFs	55722275	0.335		0.305 pg/g	В	J	В			

Sample Name	HZBS0180S002		Matrix [	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	1086006	Sample l	Date: 1	0/1/2009 10:00:00 A	М	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	0.561	4.4	0.561 pg/g	U	U	
1,2,3,4,6,7,8-HpCDF	67562394	0.253	4.4	0.253 pg/g	U	U	
,2,3,4,7,8,9-HpCDF	55673897	0.51	4.4	0.51 pg/g	U	U	
,2,3,4,7,8-HxCDD	39227286	0.264	4.4	0.264 pg/g	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.175	4.4	0.175 pg/g	U	U	
,2,3,6,7,8-HxCDD	57653857	0.299	4.4	0.299 pg/g	U	U	
,2,3,6,7,8-HxCDF	57117449	0.171	4.4	0.171 pg/g	U	U	
,2,3,7,8,9-HxCDD	19408743	0.296	4.4	0.296 pg/g	U	U	
1,2,3,7,8,9-HxCDF	72918219	0.266	4.4	0.266 pg/g	U	U	
1,2,3,7,8-PeCDD	40321764	0.19	4.4	0.19 pg/g	U	U	
,2,3,7,8-PeCDF	57117416	0.131	4.4	0.131 pg/g	U	U	
2,3,4,6,7,8-HxCDF	60851345	0.183	4.4	0.183 pg/g	U	U	
2,3,4,7,8-PeCDF	57117314	0.143	4.4	0.143 pg/g	U	U	
2,3,7,8-TCDD	1746016	0.211	0.88	0.211 pg/g	U	U	
2,3,7,8-TCDF	51207319	0.88	0.88	0.88 pg/g	ЈК	UJ	*III result changed from 0.236 and EDL from 0.225
OCDD	3268879	1.22	8.8	1.22 pg/g	U	U	
DCDF	39001020	1.03	8.8	1.03 pg/g	U	U	
Fotal HpCDD	37871004	0.561		0.561 pg/g	U	U	
Fotal HpCDF	38998753	0.253		0.253 pg/g	U	U	
Fotal HxCDD	34465468	0.264		0.264 pg/g	U	U	
Fotal HxCDF	55684941	0.171		0.171 pg/g	U	U	
Fotal PeCDD	36088229	0.19		0.19 pg/g	U	U	
Total PeCDF	30402154	0.131		0.131 pg/g	U	U	
Total TCDD	41903575	0.211		0.211 pg/g	U	U	
Total TCDFs	55722275	0.236		0.225 pg/g	В	J	В, *Ш

Sample Name	HZBS0080AS0	01	Matrix [	<b>Fype:</b> Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234004	Sample	Date: 1	0/1/2009 2:35:00 PM	v	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	4	4	1 ug/L	U	U	
Sample Name	HZBS0080AS0	02	Matrix [	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234005	Sample	Date: 1	0/1/2009 2:45:00 PM	v	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	4	4	1 ug/L	U	U	
Sample Name	HZBS0082AS0	01	Matrix 7	<b>Fype:</b> Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234006	Sample	Date: 1	0/1/2009 8:30:00 AM	<b>Validation Level:</b> V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	4	4	1 ug/L	U	U	
Sample Name	HZBS0082AS0	02 Matrix Type: Soil Result Type: Primary Result					
Lab Sample Name:	238234007	Sample	Date: 1	0/1/2009 9:05:00 AM	í <b>v</b>	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	4	4	1 ug/L	U	U	
Sample Name	HZBS0084AS0	01	Matrix [	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234008	Sample	Date: 1	0/1/2009 7:50:00 AM	Г <b>Т</b>	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	20	20	5 ug/L	U	U	
Sample Name	HZBS0084AS0	02	Matrix 7	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234009	Sample	Date: 1	0/1/2009 8:15:00 AM	Г <b>Т</b>	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	4	4	1 ug/L	U	U	
Sample Name	HZBS0123AS0	01	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234010	Sample	Date: 1	0/1/2009 1:15:00 PM	V	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes

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Sample Name	HZBS0123AS00	2	Matrix 7	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234011	Sample	Date: 1	0/1/2009 1:30:00 PN	1 1	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	4	4	1 ug/L	U	U	
Sample Name	HZBS0124AS00	1	Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234012	Sample	Date: 1	0/1/2009 11:00:00 A	М	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	4	4	1 ug/L	U	U	
Sample Name	HZBS0124AS00	2	Matrix 7	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234013	Sample	Date: 1	0/1/2009 12:30:00 P	М	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	4	4	1 ug/L	U	U	
Sample Name	HZBS0175S001		Matrix	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234014	Sample	Date: 1	0/1/2009 1:50:00 PN	1 1	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	40	40	10 ug/L	U	U	
Sample Name	HZBS0175S002		Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234015	Sample	Date: 1	0/1/2009 2:10:00 PM	1 1	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	4	4	1 ug/L	U	U	
Sample Name	HZBS0177S001		Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234016	Sample	Date: 1	0/1/2009 3:00:00 PN	1 1	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	40	40	10 ug/L	U	U	
Sample Name	HZBS0177S002		Matrix 7	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234017	Sample	Date: 1	0/1/2009 3:15:00 PN	1 1	alidation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes

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Sample Name	HZBS0180S001		Matrix	к Туре:	Soil	Res	<b>Result Type:</b> Primary Result			
Lab Sample Name:	238234018	Sample	Date:	10/1/2009	9:30:00 AM	1 1	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDI	2 Result Units	Lab Qualifier	Validation Qualifier	Validatior Notes		
Perchlorate	14797730	40	4	0	10 ug/L	U	U			
Sample Name	HZBS0180S002		Matrix	к Туре:	Soil	Res	ult Type: Pr	rimary Result		
Lab Sample Name:	238234019	Sample	Date:	10/1/2009	0 10:00:00 A	M	Validation Le	evel: V		
Analyte	CAS No	Result Value	RL	MDI	2 Result Units	Lab Qualifier	Validation Qualifier	Validatior Notes		
Perchlorate	14797730	4		4	1 ug/L	U	U			

## Analysis Method 314.0-DI WET

Sample Name	EBQW2249		Matrix 7	Type: Water	Res	ult Type: Pr	imary Result		
Lab Sample Name:	238234001	Sample	Date: 1	0/1/2009 3:30:00 PM	V	alidation Le	evel: V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
Aluminum	7429905	68	200	68 ug/L	U	U			
Antimony	7440360	3	10	3 ug/L	U	U			
Boron	7440428	15	50	15 ug/L	U	U			
Sample Name	HZBS0080AS0	001	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result		
Lab Sample Name:	238234004	Sample	Date: 1	0/1/2009 2:35:00 PM	Validation Level: V				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
Aluminum	7429905	11300	19.8	6.74 mg/kg					
Antimony	7440360	1.49	0.991	0.327 mg/kg		J	Ι		
Boron	7440428	3.52	4.95	0.991 mg/kg	J	J	Ι		
Sample Name	HZBS0080AS0	02 Matrix Type: Soil Result Type: Primary					imary Result		
Lab Sample Name:	238234005	Sample	Sample Date: 10/1/2009 2:45:00 PM			<b>Validation Level:</b> V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
Aluminum	7429905	14700	20.5	6.97 mg/kg					
Antimony	7440360	1.68	1.68	1.68 mg/kg		UJ	B,I, RL changed from 1.02 and MDL from 0.338		
Boron	7440428	3.22	5.12	1.02 mg/kg	J	J	Ι		
Sample Name	HZBS0082AS0	001	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result		
Lab Sample Name:	238234006	Sample	Date: 1	0/1/2009 8:30:00 AM	í <b>v</b>	alidation Le	evel: V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
			20.7	7.02 mg/kg					
Aluminum	7429905	12400	20.7	7.02 mg/kg					
Aluminum Antimony	7429905 7440360	12400	1.03	0.341 mg/kg		J	I		

Sample Name	HZBS0082AS0	Result Type: Primary Result						
Lab Sample Name:	238234007	M Validation Level: V						
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	13200	20.3	6.89 mg/kg				
Antimony	7440360	1.62	1.62	1.62 mg/kg		UJ	B,I, RL changed from 1.01 and MDL from 0.334	
Boron	7440428	2.65	5.07	1.01 mg/kg	J	J	Ι	
Sample Name	HZBS0084AS0	001	Matrix 7	Type: Soil	Res	ult Type: Pri	imary Result	
Lab Sample Name:	238234008	Sample	Date: 1	0/1/2009 7:50:00 AN	1 <b>V</b>	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	10900	19.8	6.73 mg/kg				
Antimony	7440360	1.54	1.54	1.54 mg/kg		UJ	B,I, RL changed from 0.99 and MDL from 0.327	
Boron	7440428	2.81	4.95	0.99 mg/kg	J	1	Ι	
Sample Name	HZBS0084AS0	002	Matrix 7	Res	ult Type: Pri	imary Result		
		Sample Date: 10/1/2009 8:15:00 AM			1 Validation Level: V			
Lab Sample Name:	238234009	Sample	Date: 1	)/1/2009 8:15:00 AM	1 1	alidation Le	vel: V	
Lab Sample Name: Analyte	238234009 CAS No	Sample Result Value	Date: 10 RL	0/1/2009 8:15:00 AM MDL Result Units	<sup>4</sup> V Lab Qualifier	Validation Le Validation Qualifier		
-		Result		MDL Result	Lab	Validation	Validation	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab	Validation	Validation	
Analyte Aluminum Antimony	CAS No 7429905	Result Value 14300	<b>RL</b> 20	MDL Result Units	Lab	Validation Qualifier	Validation Notes B,I, RL changed from 1 and MDL from	
Analyte Aluminum Antimony Boron	CAS No 7429905 7440360	Result         Value           14300         1.5           2.43         1.43	<b>RL</b> 20 1.5	MDL Result Units 6.8 mg/kg 1.5 mg/kg	Lab Qualifier	Validation Qualifier UJ	Validation Notes B,I, RL changed from 1 and MDL from 0.33	
Analyte	CAS No 7429905 7440360 7440428	Result         Value           14300         1.5           2.43         001	RL 20 1.5 5 Matrix 7	MDL Result Units 6.8 mg/kg 1.5 mg/kg	Lab Qualifier	Validation Qualifier UJ	Validation Notes B,I, RL changed from 1 and MDL from 0.33 I imary Result	
Analyte Aluminum Antimony Boron Sample Name	CAS No 7429905 7440360 7440428 HZBS0123AS0	Result         Value           14300         1.5           2.43         001	RL 20 1.5 5 Matrix 7	MDL Result Units 6.8 mg/kg 1.5 mg/kg	Lab Qualifier	Validation Qualifier UJ J ult Type: Pri	Validation Notes B,I, RL changed from 1 and MDL from 0.33 I imary Result vel: V	
Analyte Aluminum Antimony Boron Sample Name Lab Sample Name:	CAS No 7429905 7440360 7440428 HZBS0123AS0 238234010	Result         Value           14300         1.5           2.43         001           Sample         Result	RL 20 1.5 5 Matrix 7 Date: 10	MDL Result Units 6.8 mg/kg 1.5 mg/kg 1 mg/kg Fype: Soil 0/1/2009 1:15:00 PM MDL Result	Lab Qualifier	Validation Qualifier UJ J ult Type: Pri Validation Le Validation	Validation Notes B,I, RL changed from 1 and MDL from 0.33 I imary Result vel: V Validation	
Analyte Aluminum Antimony Boron Sample Name Lab Sample Name: Analyte	CAS No 7429905 7440360 7440428 HZBS0123AS0 238234010 CAS No	Result Value           14300           1.5           2.43           001           Sample           Result Value	RL 20 1.5 5 Matrix 7 Date: 10 RL	MDL Result Units 6.8 mg/kg 1.5 mg/kg 1 mg/kg Type: Soil 0/1/2009 1:15:00 PM MDL Result Units	Lab Qualifier	Validation Qualifier UJ J ult Type: Pri Validation Le Validation	Validation Notes B,I, RL changed from 1 and MDL from 0.33 I imary Result vel: V Validation	

Sample Name	HZBS0123AS00	<b>Result Type:</b> Primary Result						
Lab Sample Name:	238234011	Validation Level: V						
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	10600	20.2	6.87 mg/kg				
Antimony	7440360	1.52	1.52	1.52 mg/kg		UJ	B,I, RL changed from 1.01 and MDL from 0.334	
Boron	7440428	2.69	5.05	1.01 mg/kg	J	J	Ι	
Sample Name	HZBS0124AS00	1	Matrix 7	Type: Soil	Rest	alt Type: Pr	imary Result	
Lab Sample Name:	238234012	Sample	Date: 1	0/1/2009 11:00:00 AN	M Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	10500	20.4	6.93 mg/kg				
Antimony	7440360	1.36	1.36	1.36 mg/kg		UJ	B,I, RL changed from 1.02 and MDL from 0.336	
Boron	7440428	2.98	5.1	1.02 mg/kg	J	1	Ι	
Sample Name	HZBS0124AS00	2	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result	
Lab Sample Name:	238234013	Sample	Date: 1	0/1/2009 12:30:00 PM	M Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	14100	20.1	6.84 mg/kg				
Antimony	7440360	1.49	1.49	1.49 mg/kg		UJ	B,I, RL changed from 1.01 and MDL from 0.332	
Boron	7440428	3	5.03	1.01 mg/kg	J	J	I	
	7440428 HZBS0175S001	3	5.03 Matrix 7	00			I imary Result	
Sample Name			Matrix 7	00	Rest		imary Result	
Sample Name Lab Sample Name:	HZBS0175S001		Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result <b>vel:</b> V	
Boron Sample Name Lab Sample Name: Analyte	HZBS0175S001 238234014	Sample Result	Matrix 7 Date: 1	Soil           0/1/2009 1:50:00 PM           MDL         Result	Resi V Lab	ult Type: Pr Validation Le Validation	imary Result vel: V Validation	
Sample Name Lab Sample Name: Analyte	HZBS0175S001 238234014 CAS No	Sample Result Value	Matrix 7 Date: 1 RL	Type: Soil 0/1/2009 1:50:00 PM MDL Result Units	Resi V Lab	ult Type: Pr Validation Le Validation	imary Result vel: V Validation	

Sample Name	HZBS0175S002		Matrix 7	<b>Fype:</b> Soil	Rest	ult Type: Pr	imary Result	
Lab Sample Name:	238234015	Sample	Date: 1	0/1/2009 2:10:00 PM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	9570	20	6.79 mg/kg				
Antimony	7440360	1.21	1.21	1.21 mg/kg		UJ	B,I, RL changed from 0.999 and MDL from 0.33	
Boron	7440428	2.19	4.99	0.999 mg/kg	J	1	I	
Sample Name	HZBS0177S001		Matrix 7	<b>Гуре:</b> Soil	Rest	ult Type: Pr	imary Result	
Lab Sample Name:	238234016	Sample	Date: 1	0/1/2009 3:00:00 PM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	10400	19.7	6.7 mg/kg				
Antimony	7440360	1.4	1.4	1.4 mg/kg		UJ	B,I, RL changed from 0.985 and MDL from 0.325	
Boron	7440428	3.44	4.93	0.985 mg/kg	J	J	I	
Sample Name	HZBS0177S002		Matrix 7	Гуре: Soil	Rest	alt Type: Pr	imary Result	
Lab Sample Name:	238234017	Sample	Date: 1	0/1/2009 3:15:00 PM	١	alidation Le	evel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	13000	20.3	6.92 mg/kg				
Antimony	7440360	1.71	1.02	0.336 mg/kg		1	Ι	
Boron	7440428	2.95	5.09	1.02 mg/kg	J	1	Ι	
Sample Name	HZBS0180S001		Matrix 7	Fype: Soil	Rest	ult Type: Pr	imary Result	
Lab Sample Name:	238234018	Sample	Date: 1	0/1/2009 9:30:00 AM	V	alidation Le	evel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aluminum	7429905	9260	20.1	6.83 mg/kg				
Antimony	7440360	1.26	1.26	1.26 mg/kg		UJ	B,I, RL changed from 1 and MDL from 0.332	

Sample Name	HZBS0180S002		Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234019	Sample Date: 10/1/2009 10:00:00 AM			<b>Validation Level:</b> V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	7429905	12000	20.8	7.09 mg/kg			
Antimony	7440360	1.45	1.45	1.45 mg/kg		UJ	B,I, RL changed from 1.04 and MDL from 0.344
Boron	7440428	2.94	5.21	1.04 mg/kg	J	J	I

Sample Name	EBQW2249		Matrix [	Type: Water	Res	ult Type: Pr	imary Result	
Lab Sample Name: Analyte	238234001	Sample I	Date: 1	0/1/2009 3:30:00 PM	Validation Level: V			
	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Arsenic	7440382	1.6	5	1.6 ug/L	U	U		
Barium	7440393	0.6	2	0.6 ug/L	U	U		
Beryllium	7440417	0.1	0.5	0.1 ug/L	U	U		
Cadmium	7440439	0.11	1	0.11 ug/L	U	U		
Chromium	7440473	2	10	2 ug/L	U	U		
Cobalt	7440484	0.1	1	0.1 ug/L	U	U		
Copper	7440508	0.33	1	0.33 ug/L	U	U		
Lead	7439921	0.5	2	0.5 ug/L	U	U		
Molybdenum	7439987	0.167	0.5	0.167 ug/L	U	U		
Nickel	7440020	0.5	2	0.5 ug/L	U	U		
Selenium	7782492	1	5	1 ug/L	U	U		
Silver	7440224	0.2	1	0.2 ug/L	U	U		
Thallium	7440280	1	1	1 ug/L	J	U	B, result changed from 0.404 and MDL from 0.3	
Vanadium	7440622	3	10	3 ug/L	U	U		
Zinc	7440666	3	10	3 ug/L	U	U		

## Analysis Method 6020

Sample Name	HZBS0080AS0	001	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234004	Sample	Date: 1	0/1/2009 2:35:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	5.73	1.01	0.201 mg/kg			
Barium	7440393	92.3	0.402	0.101 mg/kg			
Beryllium	7440417	0.819	0.101	0.0201 mg/kg			
Cadmium	7440439	0.234	0.201	0.0201 mg/kg			
Chromium	7440473	21.5	0.604	0.201 mg/kg			
Cobalt	7440484	5.86	0.201	0.0604 mg/kg			
Copper	7440508	10.1	0.201	0.0664 mg/kg			
Lead	7439921	15.4	0.402	0.101 mg/kg			
Molybdenum	7439987	0.441	0.201	0.0604 mg/kg			
Nickel	7440020	13.9	0.402	0.101 mg/kg			
Selenium	7782492	0.503	1.01	0.503 mg/kg	U	U	
Silver	7440224	0.0751	0.201	0.0402 mg/kg	J	J	
Thallium	7440280	0.397	0.201	0.0604 mg/kg			
Vanadium	7440622	37.9	10.1	2.01 mg/kg			
Zinc	7440666	58.7	2.01	0.402 mg/kg			
Sample Name	HZBS0080AS0	002	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
_	HZBS0080AS0 238234005			<b>Fype:</b> Soil 0/1/2009 2:45:00 PM		ult Type: <sup>Pr</sup> /alidation Le	
Lab Sample Name:						alidation Le	vel: V
Lab Sample Name: Analyte	238234005	Sample Result	Date: 1	0/1/2009 2:45:00 PM MDL Result	V Lab	Validation Le Validation	vel: V Validation
Arsenic	238234005 CAS No	Sample Result Value	Date: 10 RL	0/1/2009 2:45:00 PM MDL Result Units	V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium	238234005 CAS No 7440382	Sample Result Value 6.59	Date: 10 RL 1.04	0/1/2009 2:45:00 PM MDL Result Units 0.209 mg/kg	V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium	238234005 CAS No 7440382 7440393	Sample Result Value 6.59 73	Date: 10 RL 1.04 0.417	0/1/2009 2:45:00 PM MDL Result Units 0.209 mg/kg 0.104 mg/kg	V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium	238234005 CAS No 7440382 7440393 7440417	Sample . Result Value 6.59 73 0.868	Date: 10 RL 1.04 0.417 0.104	0/1/2009 2:45:00 PM MDL Result Units 0.209 mg/kg 0.104 mg/kg 0.0209 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium	238234005 CAS No 7440382 7440393 7440417 7440439	Sample 3 Result Value 6.59 73 0.868 0.193	Date: 10 RL 1.04 0.417 0.104 0.209	0/1/2009 2:45:00 PM MDL Result Units 0.209 mg/kg 0.104 mg/kg 0.0209 mg/kg 0.0209 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	238234005 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473	Sample Result Value 6.59 73 0.868 0.193 23.1	Date: 10 RL 1.04 0.417 0.104 0.209 0.626	0/1/2009 2:45:00 PM MDL Result Units 0.209 mg/kg 0.104 mg/kg 0.0209 mg/kg 0.0209 mg/kg 0.209 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	238234005 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473	Sample 3 Result Value 6.59 73 0.868 0.193 23.1 4.73	Date: 10 RL 1.04 0.417 0.104 0.209 0.626 0.209	0/1/2009 2:45:00 PM MDL Result Units 0.209 mg/kg 0.104 mg/kg 0.0209 mg/kg 0.0209 mg/kg 0.209 mg/kg 0.209 mg/kg 0.209 mg/kg 0.209 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead	238234005 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508	Sample Result Value 6.59 73 0.868 0.193 23.1 4.73 11.9	Date: 10 RL 1.04 0.417 0.104 0.209 0.626 0.209 0.209	MDL Result Units           0/1/2009 2:45:00 PM           MDL Result Units           0.209 mg/kg           0.104 mg/kg           0.0209 mg/kg           0.0209 mg/kg           0.209 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum	238234005 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921	Sample 3 Result Value 6.59 73 0.868 0.193 23.1 4.73 11.9 9.1	Date: 10 RL 1.04 0.417 0.104 0.209 0.626 0.209 0.209 0.417	0/1/2009 2:45:00 PM MDL Result Units 0.209 mg/kg 0.104 mg/kg 0.0209 mg/kg 0.0209 mg/kg 0.0209 mg/kg 0.00626 mg/kg 0.0689 mg/kg 0.104 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Molybdenum	238234005 CAS No 7440382 7440393 7440439 7440439 7440439 7440473 7440484 7440508 7439921 7439987	Sample Result Value 6.59 73 0.868 0.193 23.1 4.73 11.9 9.1 0.414	Date: 10 RL 1.04 0.417 0.104 0.209 0.209 0.209 0.209 0.209	MDL Result Units           0/1/2009 2:45:00 PM           MDL Result Units           0.209 mg/kg           0.104 mg/kg           0.0209 mg/kg           0.209 mg/kg           0.209 mg/kg           0.209 mg/kg           0.0209 mg/kg           0.0209 mg/kg           0.0626 mg/kg           0.104 mg/kg           0.0689 mg/kg           0.104 mg/kg           0.104 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium	238234005 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7440020	Sample Result Value 6.59 73 0.868 0.193 23.1 4.73 11.9 9.1 0.414 13.7	Date: 10 RL 1.04 0.417 0.104 0.209 0.626 0.209 0.209 0.209 0.209 0.417	0/1/2009 2:45:00 PM         MDL Result Units         0.209 mg/kg         0.104 mg/kg         0.0209 mg/kg         0.0209 mg/kg         0.0209 mg/kg         0.0209 mg/kg         0.00626 mg/kg         0.104 mg/kg         0.104 mg/kg         0.0626 mg/kg         0.104 mg/kg         0.104 mg/kg	Lab Qualifier	J	vel: V Validation
_	238234005 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440508 7439921 7439987 7440020 7782492	Sample Result Value 6.59 73 0.868 0.193 23.1 4.73 11.9 9.1 0.414 13.7 0.522	Date: 10 RL 1.04 0.417 0.104 0.209 0.626 0.209 0.209 0.209 0.209 0.417 0.209 0.417 1.04	MDL Result Units 0.209 mg/kg 0.104 mg/kg 0.0209 mg/kg 0.0209 mg/kg 0.0209 mg/kg 0.0209 mg/kg 0.0626 mg/kg 0.0689 mg/kg 0.0626 mg/kg 0.0626 mg/kg 0.0626 mg/kg 0.104 mg/kg 0.104 mg/kg 0.104 mg/kg	U	Validation Le Validation Qualifier J	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Copper Lead Molybdenum Nickel Selenium	238234005 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7439987 7439987 7440020 7782492 7440224	Sample Result Value 6.59 73 0.868 0.193 23.1 4.73 11.9 9.1 0.414 13.7 0.522 0.0808	Date: 10 RL 1.04 0.417 0.104 0.209 0.626 0.209 0.209 0.209 0.417 0.209 0.417 1.04 0.209	MDL Result Units 0.209 mg/kg 0.209 mg/kg 0.209 mg/kg 0.0209 mg/kg 0.0209 mg/kg 0.0209 mg/kg 0.0626 mg/kg 0.0689 mg/kg 0.0626 mg/kg 0.0626 mg/kg 0.0626 mg/kg 0.104 mg/kg 0.104 mg/kg 0.522 mg/kg 0.0417 mg/kg	U	Validation Le Validation Qualifier J	vel: V Validation

Sample Name	HZBS0082AS0	01	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234006	Sample	Date: 1	0/1/2009 8:30:00 AM	í V	Validation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	5.66	1.03	0.207 mg/kg			
Barium	7440393	83.9	0.414	0.103 mg/kg			
Beryllium	7440417	0.743	0.103	0.0207 mg/kg			
Cadmium	7440439	0.271	0.207	0.0207 mg/kg			
Chromium	7440473	17.5	0.621	0.207 mg/kg			
Cobalt	7440484	5.92	0.207	0.0621 mg/kg			
Copper	7440508	9.02	0.207	0.0683 mg/kg			
Lead	7439921	17.5	0.414	0.103 mg/kg			
Molybdenum	7439987	0.691	0.207	0.0621 mg/kg			
Nickel	7440020	12.9	0.414	0.103 mg/kg			
Selenium	7782492	0.517	1.03	0.517 mg/kg	U	U	
Silver	7440224	0.0797	0.207	0.0414 mg/kg	J	J	
Thallium	7440280	0.338	0.207	0.0621 mg/kg			
Vanadium	7440622	34.5	10.3	2.07 mg/kg			
Zinc	7440666	54.5	2.07	0.414 mg/kg			
Sample Name	HZBS0082AS0	02	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Sample Name Lab Sample Name:	HZBS0082AS0 238234007			<b>Fype:</b> Soil 0/1/2009 9:05:00 AM		ult Type: Pr Validation Le	
Lab Sample Name:						Validation Le	vel: V
Lab Sample Name: Analyte	238234007	Sample Result	Date: 10	0/1/2009 9:05:00 AN MDL Result	1 V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte	238234007 CAS No	Sample Result Value	Date: 10 RL	0/1/2009 9:05:00 AM MDL Result Units	1 V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium	238234007 CAS No 7440382	Sample Result Value	Date: <sup>10</sup> RL	0/1/2009 9:05:00 AM MDL Result Units 0.2 mg/kg	1 V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium	238234007 CAS No 7440382 7440393	Sample Result Value 5.52 83	Date: 10 RL 1 0.4	0/1/2009 9:05:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg	1 V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium BeryIlium Cadmium	238234007 CAS No 7440382 7440393 7440417	Sample           Result           Value           5.52           83           0.764	Date: 10 RL 1 0.4 0.1	0/1/2009 9:05:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium	238234007 CAS No 7440382 7440393 7440417 7440439	Sample           Result           Value           5.52           83           0.764           0.134	Date: 10 RL 1 0.4 0.1 0.2	0/1/2009 9:05:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	238234007 CAS No 7440382 7440393 7440417 7440439 7440473	Sample Result Value 5.52 83 0.764 0.134 16.9	Date: 10 RL 1 0.4 0.1 0.2 0.6	0/1/2009 9:05:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg 0.2 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	238234007 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473	Sample Result Value 5.52 83 0.764 0.134 16.9 5.82	Date: 10 RL 1 0.4 0.1 0.2 0.6 0.2	0/1/2009 9:05:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg 0.2 mg/kg 0.2 mg/kg 0.2 mg/kg 0.2 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead	238234007 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508	Sample Result Value 5.52 83 0.764 0.134 16.9 5.82 8.01	Date: 10 RL 1 0.4 0.1 0.2 0.6 0.2 0.2	0/1/2009 9:05:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg 0.2 mg/kg 0.2 mg/kg 0.06 mg/kg 0.066 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum	238234007 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921	Sample Result Value 5.52 83 0.764 0.134 16.9 5.82 8.01 8.2	Date: 10 RL 1 0.4 0.1 0.2 0.2 0.2 0.4	0/1/2009 9:05:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg 0.02 mg/kg 0.06 mg/kg 0.066 mg/kg 0.1 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Copper Lead Molybdenum	238234007 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921 7439987	Sample Result Value 5.52 83 0.764 0.134 16.9 5.82 8.01 8.2 0.626	Date: 10 RL 1 0.4 0.1 0.2 0.6 0.2 0.2 0.2 0.4 0.2	Display="block">Display="block"           MDL Result Units           0.2 mg/kg           0.1 mg/kg           0.02 mg/kg           0.02 mg/kg           0.02 mg/kg           0.06 mg/kg           0.1 mg/kg           0.06 mg/kg           0.1 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium	238234007 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7440020	Sample Result Value 5.52 83 0.764 0.134 16.9 5.82 8.01 8.2 0.626 10.8	Date: 10 RL 1 0.4 0.1 0.2 0.6 0.2 0.2 0.2 0.4 0.2 0.4	0/1/2009 9:05:00 AM MDL Result Units 0.2 mg/kg 0.02 mg/kg 0.02 mg/kg 0.02 mg/kg 0.06 mg/kg 0.066 mg/kg 0.1 mg/kg 0.06 mg/kg 0.1 mg/kg	Lab Qualifier	J	vel: V Validation
-	238234007 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7440020 7782492	Sample Result Value 5.52 83 0.764 0.134 16.9 5.82 8.01 8.2 0.626 10.8 0.5	Date: 10 RL 1 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.4 0.2 0.4 1	Display="block">Display="block"           MDL Result Units           0.2 mg/kg           0.1 mg/kg           0.02 mg/kg           0.02 mg/kg           0.02 mg/kg           0.06 mg/kg           0.1 mg/kg           0.06 mg/kg           0.1 mg/kg           0.06 mg/kg           0.1 mg/kg           0.1 mg/kg	I V Lab Qualifier	Validation Le Validation Qualifier J	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Copper Lead Molybdenum Nickel Selenium	238234007 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7439987 7439987 7440020 7782492 7440224	Sample Result Value 5.52 83 0.764 0.134 16.9 5.82 8.01 8.2 0.626 10.8 0.5 0.0704	Date: 10 RL 1 0.4 0.1 0.2 0.6 0.2 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.2 0.4 0.2 0.4 0.2 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.4 0.2 0.4 0.4 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	0/1/2009 9:05:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg 0.2 mg/kg 0.06 mg/kg 0.066 mg/kg 0.1 mg/kg 0.1 mg/kg 0.1 mg/kg 0.1 mg/kg 0.1 mg/kg 0.1 mg/kg 0.1 mg/kg	I V Lab Qualifier	Validation Le Validation Qualifier J	vel: V Validation

Sample Name	HZBS0084AS0	001	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234008	Sample	Date: 1	0/1/2009 7:50:00 AM	í V	Validation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	5.29	1	0.201 mg/kg			
Barium	7440393	96	0.401	0.1 mg/kg			
Beryllium	7440417	0.672	0.1	0.0201 mg/kg			
Cadmium	7440439	0.247	0.201	0.0201 mg/kg			
Chromium	7440473	17.1	0.602	0.201 mg/kg			
Cobalt	7440484	6.07	0.201	0.0602 mg/kg			
Copper	7440508	8.94	0.201	0.0662 mg/kg			
Lead	7439921	13.5	0.401	0.1 mg/kg			
Molybdenum	7439987	0.609	0.201	0.0602 mg/kg			
Nickel	7440020	12.4	0.401	0.1 mg/kg			
Selenium	7782492	0.502	1	0.502 mg/kg	U	U	
Silver	7440224	0.0827	0.201	0.0401 mg/kg	J	J	
Thallium	7440280	0.307	0.201	0.0602 mg/kg			
Vanadium	7440622	33.4	10	2.01 mg/kg			
Zinc	7440666	51.1	2.01	0.401 mg/kg			
Sample Name	HZBS0084AS0	002	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Sample Name Lab Sample Name:	HZBS0084AS0 238234009			<b>Fype:</b> Soil 0/1/2009 8:15:00 AM		ult Type: Pr Validation Le	
Lab Sample Name:						Validation Le	vel: V
Lab Sample Name: Analyte	238234009	Sample Result	Date: 1	0/1/2009 8:15:00 AN MDL Result	1 V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte	238234009 CAS No	Sample Result Value	Date: 10 RL	0/1/2009 8:15:00 AM MDL Result Units	1 V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium	238234009 CAS No 7440382	Sample Result Value 4.92	<b>Date:</b> 10 <b>RL</b> 1	0/1/2009 8:15:00 AM MDL Result Units 0.2 mg/kg	1 V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium	238234009 CAS No 7440382 7440393	Sample Result Value 4.92 61.4	Date: 10 RL 1 0.4	0/1/2009 8:15:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg	1 V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium	238234009 CAS No 7440382 7440393 7440417	Sample Result Value 4.92 61.4 0.686	Date: 10 RL 1 0.4 0.1	0/1/2009 8:15:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium	238234009 CAS No 7440382 7440393 7440417 7440439	Sample           Result           Value           4.92           61.4           0.686           0.106	Date: 10 RL 1 0.4 0.1 0.2	0/1/2009 8:15:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
-	238234009 CAS No 7440382 7440393 7440417 7440439 7440473	Sample Result Value 4.92 61.4 0.686 0.106 17.5	Date: 10 RL 1 0.4 0.1 0.2 0.6	0/1/2009 8:15:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg 0.2 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	238234009 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484	Sample Result Value 4.92 61.4 0.686 0.106 17.5 3.81	Date: 10 RL 1 0.4 0.1 0.2 0.6 0.2	0/1/2009 8:15:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg 0.2 mg/kg 0.06 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead	238234009 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508	Sample Result Value 4.92 61.4 0.686 0.106 17.5 3.81 6.59	Date: 10 RL 1 0.4 0.1 0.2 0.6 0.2 0.2	0/1/2009 8:15:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg 0.2 mg/kg 0.2 mg/kg 0.06 mg/kg 0.066 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum	238234009 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440439 7440473 7440484 7440508 7439921	Sample Result Value 4.92 61.4 0.686 0.106 17.5 3.81 6.59 7.76	Date: 10 RL 1 0.4 0.1 0.2 0.2 0.2 0.4	0/1/2009 8:15:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg 0.02 mg/kg 0.06 mg/kg 0.066 mg/kg 0.1 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Copper Lead Molybdenum	238234009 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921 7439987	Sample Result Value 4.92 61.4 0.686 0.106 17.5 3.81 6.59 7.76 0.459	Date: 10 RL 1 0.4 0.1 0.2 0.6 0.2 0.2 0.2 0.4 0.2	0/1/2009 8:15:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg 0.2 mg/kg 0.2 mg/kg 0.06 mg/kg 0.066 mg/kg 0.06 mg/kg 0.066 mg/kg	<sup>1</sup> V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium	238234009 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7440020	Sample Result Value 4.92 61.4 0.686 0.106 17.5 3.81 6.59 7.76 0.459 8.22	Date: 10 RL 1 0.4 0.1 0.2 0.6 0.2 0.2 0.2 0.4 0.2 0.4	0/1/2009 8:15:00 AM MDL Result Units 0.2 mg/kg 0.1 mg/kg 0.02 mg/kg 0.02 mg/kg 0.2 mg/kg 0.06 mg/kg 0.066 mg/kg 0.1 mg/kg 0.06 mg/kg 0.1 mg/kg	1 V Lab Qualifier	J	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	238234009 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7440020 7782492	Sample Result Value 4.92 61.4 0.686 0.106 17.5 3.81 6.59 7.76 0.459 8.22 0.5	Date: 10 RL 1 0.4 0.4 0.2 0.2 0.2 0.2 0.4 0.2 0.4 1	MDL Result Units           0.2 mg/kg           0.1 mg/kg           0.2 mg/kg           0.2 mg/kg           0.2 mg/kg           0.02 mg/kg           0.02 mg/kg           0.06 mg/kg           0.06 mg/kg           0.1 mg/kg           0.06 mg/kg           0.1 mg/kg           0.1 mg/kg	I V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Copper Lead Molybdenum Nickel Selenium	238234009 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440508 7439921 7439987 7439987 7439987 7440020 7782492 7440224	Sample Result Value 4.92 61.4 0.686 0.106 17.5 3.81 6.59 7.76 0.459 8.22 0.5 0.0658	Date: 10 RL 1 0.4 0.1 0.2 0.6 0.2 0.2 0.2 0.4 0.2 0.4 1 0.2	MDL Result Units           0.2 mg/kg           0.1 mg/kg           0.2 mg/kg           0.2 mg/kg           0.2 mg/kg           0.02 mg/kg           0.02 mg/kg           0.1 mg/kg           0.1 mg/kg           0.1 mg/kg           0.06 mg/kg           0.1 mg/kg	I V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation

Sample Name	HZBS0123AS0	01	Matrix 7	<b>Fype:</b> Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234010	Sample	Date: 1	0/1/2009 1:15:00 PM	V	Validation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	5.06	0.972	0.194 mg/kg			
Barium	7440393	88.1	0.389	0.0972 mg/kg			
Beryllium	7440417	0.608	0.0972	0.0194 mg/kg			
Cadmium	7440439	0.338	0.194	0.0194 mg/kg			
Chromium	7440473	18.3	0.583	0.194 mg/kg			
Cobalt	7440484	5.85	0.194	0.0583 mg/kg			
Copper	7440508	9.87	0.194	0.0642 mg/kg			
Lead	7439921	20.4	0.389	0.0972 mg/kg			
Molybdenum	7439987	0.53	0.194	0.0583 mg/kg			
Nickel	7440020	13.2	0.389	0.0972 mg/kg			
Selenium	7782492	0.486	0.972	0.486 mg/kg	U	U	
Silver	7440224	0.0721	0.194	0.0389 mg/kg	J	J	
Thallium	7440280	0.306	0.194	0.0583 mg/kg			
Vanadium	7440622	33.6	9.72	1.94 mg/kg			
Zinc	7440666	58.3	1.94	0.389 mg/kg			
						-	
Sample Name	HZBS0123AS0	02	Matrix 7	Fype: Soil	Rest	ult Type: Pr	imary Result
Sample Name Lab Sample Name:	HZBS0123AS0 238234011			<b>Fype:</b> Soil 0/1/2009 1:30:00 PM		ult Type: <sup>Pr</sup> Validation Le	
Lab Sample Name:						alidation Le	
Lab Sample Name: Analyte	238234011	Sample Result	Date: 1	0/1/2009 1:30:00 PM MDL Result	N Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte	238234011 CAS No	Sample Result Value	Date: 10 RL	0/1/2009 1:30:00 PM MDL Result Units	N Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium	238234011 CAS No 7440382	Sample Result Value	Date: 10 RL 1.02	0/1/2009 1:30:00 PM MDL Result Units 0.204 mg/kg	N Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium	238234011 CAS No 7440382 7440393	Sample Result Value 5 69	Date: 10 RL 1.02 0.408	0/1/2009 1:30:00 PM MDL Result Units 0.204 mg/kg 0.102 mg/kg	N Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium BeryIlium Cadmium	238234011 CAS No 7440382 7440393 7440417	Sample Result Value 5 69 0.622	Date: 10 RL 1.02 0.408 0.102	0/1/2009 1:30:00 PM MDL Result Units 0.204 mg/kg 0.102 mg/kg 0.0204 mg/kg	N Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium	238234011 CAS No 7440382 7440393 7440417 7440439	Sample 3 Result Value 5 69 0.622 0.205	Date: 10 RL 1.02 0.408 0.102 0.204	D/1/2009 1:30:00 PM           MDL Result Units           0.204 mg/kg           0.102 mg/kg           0.0204 mg/kg           0.0204 mg/kg	N Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	238234011 CAS No 7440382 7440393 7440417 7440439 7440473	Sample Result Value 5 69 0.622 0.205 19.9	Date: 10 RL 1.02 0.408 0.102 0.204 0.611	D/1/2009 1:30:00 PM           MDL Result Units           0.204 mg/kg           0.102 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.2024 mg/kg	N Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	238234011 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484	Sample 3 Result Value 5 69 0.622 0.205 19.9 7.19	Date: 10 RL 1.02 0.408 0.102 0.204 0.611 0.204	D/1/2009 1:30:00 PM           MDL Result Units           0.204 mg/kg           0.102 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.2024 mg/kg           0.204 mg/kg           0.204 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.0204 mg/kg	N Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead	238234011 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508	Sample Result Value 5 69 0.622 0.205 19.9 7.19 7.69	Date: 10 RL 1.02 0.408 0.102 0.204 0.611 0.204 0.204	Display="block">Display="block"           MDL Result Units           0.204 mg/kg           0.102 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.204 mg/kg           0.204 mg/kg           0.0204 mg/kg           0.204 mg/kg           0.0204 mg/kg           0.204 mg/kg           0.204 mg/kg           0.204 mg/kg           0.0611 mg/kg           0.0673 mg/kg	N Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum	238234011 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921	Sample 3 Result Value 5 69 0.622 0.205 19.9 7.19 7.69 7.97	Date: 10 RL 1.02 0.408 0.102 0.204 0.611 0.204 0.204 0.408	Display="block">Display="block"           MDL Result Units           0.204 mg/kg           0.102 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.2004 mg/kg           0.2004 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.0671 mg/kg           0.102 mg/kg           0.102 mg/kg	N Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Copper Lead Molybdenum	238234011 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921 7439987	Sample Result Value 5 69 0.622 0.205 19.9 7.19 7.69 7.97 0.498	Date: 10 RL 1.02 0.408 0.102 0.204 0.204 0.204 0.204 0.204 0.204	Display="block">Display="block"           MDL Result Units           0.204 mg/kg           0.102 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.204 mg/kg           0.204 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.0611 mg/kg           0.102 mg/kg           0.102 mg/kg	N Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium	238234011 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7440020	Sample Result Value 5 69 0.622 0.205 19.9 7.19 7.69 7.97 0.498 12	Date: 10 RL 1.02 0.408 0.102 0.204 0.611 0.204 0.204 0.204 0.204 0.204 0.204	Display="block">Display="block"           MDL Result Units           0.204 mg/kg           0.102 mg/kg           0.0204 mg/kg           0.00611 mg/kg           0.00611 mg/kg           0.102 mg/kg           0.102 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	wel: V Validation
-	238234011 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7440020 7782492	Sample Result Value 5 69 0.622 0.205 19.9 7.19 7.69 7.97 0.498 12 0.509	Date: 10 RL 1.02 0.408 0.102 0.204 0.204 0.204 0.204 0.204 0.204 0.204 0.204 0.408 0.204 0.408 1.02	Display="block">Display="block"           MDL Result Units           0.204 mg/kg           0.102 mg/kg           0.0204 mg/kg           0.204 mg/kg           0.204 mg/kg           0.204 mg/kg           0.204 mg/kg           0.0204 mg/kg           0.0204 mg/kg           0.00673 mg/kg           0.102 mg/kg	U	Validation Le Validation Qualifier	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Copper Lead Molybdenum Nickel Selenium	238234011 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7439987 7439987 7440020 7782492 7440224	Sample Result Value 5 69 0.622 0.205 19.9 7.19 7.69 7.69 7.97 0.498 12 0.509 0.0432	Date: 10 RL 1.02 0.408 0.102 0.204 0.611 0.204 0.204 0.204 0.204 0.204 0.204 0.204 0.204	Display="block">Display="block"           MDL Result Units           0.204 mg/kg           0.102 mg/kg           0.0204 mg/kg           0.0611 mg/kg           0.0611 mg/kg           0.102 mg/kg           0.102 mg/kg           0.102 mg/kg           0.102 mg/kg           0.102 mg/kg           0.0611 mg/kg           0.102 mg/kg           0.102 mg/kg	U	Validation Le Validation Qualifier	wel: V Validation

Sample Name	HZBS0124AS0	001	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234012	Sample	Date: 10	0/1/2009 11:00:00 A	M	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	5.56	1.01	0.202 mg/kg			
Barium	7440393	82.8	0.404	0.101 mg/kg			
Beryllium	7440417	0.69	0.101	0.0202 mg/kg			
Cadmium	7440439	0.269	0.202	0.0202 mg/kg			
Chromium	7440473	18.1	0.607	0.202 mg/kg			
Cobalt	7440484	6.06	0.202	0.0607 mg/kg			
Copper	7440508	9.28	0.202	0.0667 mg/kg			
Lead	7439921	10.5	0.404	0.101 mg/kg			
Molybdenum	7439987	0.587	0.202	0.0607 mg/kg			
Nickel	7440020	13.3	0.404	0.101 mg/kg			
Selenium	7782492	0.505	1.01	0.505 mg/kg	U	U	
Silver	7440224	0.071	0.202	0.0404 mg/kg	J	J	
Thallium	7440280	0.294	0.202	0.0607 mg/kg			
Vanadium	7440622	33.8	10.1	2.02 mg/kg			
Zinc	7440666	53.1	2.02	0.404 mg/kg			
Zinc Sample Name	7440666 HZBS0124AS0		2.02 Matrix 7		Res	ult Type: Pr	imary Result
		002	Matrix 7			ult Type: Pr /alidation Le	
Sample Name Lab Sample Name:	HZBS0124AS0	002	Matrix 7	Type: Soil		alidation Le	vel: V
Sample Name Lab Sample Name: Analyte	HZBS0124AS0 238234013	002 Sample I Result	Matrix 7 Date: 10	Type:         Soil           0/1/2009         12:30:00 Pt           MDL         Result	M V Lab	Validation Le Validation	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic	HZBS0124AS0 238234013 CAS No	002 Sample I Result Value	Matrix 7 Date: <sup>10</sup> RL	Type:         Soil           0/1/2009         12:30:00 Pt           MDL         Result           Units	M V Lab	Validation Le Validation	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium	HZBS0124AS0 238234013 CAS No 7440382	002 Sample 3 Result Value 5.37	Matrix 7 Date: 10 RL 1.01	Type:         Soil           0/1/2009         12:30:00 Pt           MDL         Result           Units         0.202 mg/kg	M V Lab	Validation Le Validation	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium	HZBS0124AS0 238234013 CAS No 7440382 7440393	002 Sample 1 Result Value 5.37 93	Matrix 7 Date: 10 RL 1.01 0.403	Type:         Soil           0/1/2009         12:30:00 Pt           MDL         Result           Units         0.202 mg/kg           0.101 mg/kg         0.101 mg/kg	M V Lab	Validation Le Validation	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium	HZBS0124AS0 238234013 CAS No 7440382 7440393 7440417	002 Sample 3 Result Value 5.37 93 0.736	Matrix 7 Date: 10 RL 1.01 0.403 0.101	Type:         Soil           0/1/2009         12:30:00 Pt           MDL         Result           Units         0.202 mg/kg           0.101 mg/kg         0.0202 mg/kg	M V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium	HZBS0124AS0 238234013 CAS No 7440382 7440393 7440417 7440439	002 Sample 1 Result Value 5.37 93 0.736 0.188	Matrix 7 Date: 10 RL 1.01 0.403 0.101 0.202	Type:         Soil           0/1/2009         12:30:00 P!           MDL         Result           Units         0.202 mg/kg           0.101 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg	M V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	HZBS0124AS0 238234013 CAS No 7440382 7440393 7440417 7440439 7440473	002 Sample 3 Result Value 5.37 93 0.736 0.188 17.4	Matrix 7 Date: 10 RL 1.01 0.403 0.101 0.202 0.605	Type:         Soil           0/1/2009         12:30:00 Pt           MDL         Result           Units         0.202 mg/kg           0.101 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.2022 mg/kg         0.202 mg/kg	M V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	HZBS0124AS0 238234013 CAS No 7440382 7440393 7440417 7440439 7440473 7440473	002 Sample 1 Result Value 5.37 93 0.736 0.188 17.4 5.46	Matrix 7 Date: 10 RL 1.01 0.403 0.101 0.202 0.605 0.202	Type:         Soil           0/1/2009         12:30:00 P!           MDL         Result           Units         0.202 mg/kg           0.101 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.202 mg/kg           0.0202 mg/kg         0.0202 mg/kg	M V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead	HZBS0124AS0 238234013 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508	002 Sample 3 Result Value 5.37 93 0.736 0.188 17.4 5.46 8.89	Matrix 7 Date: 10 RL 1.01 0.403 0.101 0.202 0.605 0.202 0.202	Type:         Soil           D/1/2009         12:30:00 Pt           MDL         Result           Units         0.202 mg/kg           0.101 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.0205 mg/kg         0.0605 mg/kg           0.0665 mg/kg         0.0665 mg/kg	M V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Copper Lead Molybdenum	HZBS0124AS0 238234013 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921	002 Sample 1 Result Value 5.37 93 0.736 0.188 17.4 5.46 8.89 7.95	Matrix 7 Date: 10 RL 1.01 0.403 0.101 0.202 0.605 0.202 0.202 0.202 0.403	Type:         Soil           0/1/2009         12:30:00 Pl           MDL         Result           Units         0.202 mg/kg           0.101 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0605 mg/kg           0.0665 mg/kg         0.101 mg/kg	M V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Molybdenum	HZBS0124AS0 238234013 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921 7439987	002 Sample 3 Result Value 5.37 93 0.736 0.188 17.4 5.46 8.89 7.95 0.555	Matrix 7 Date: 10 RL 1.01 0.403 0.101 0.202 0.605 0.202 0.202 0.202 0.403 0.202	Type:         Soil           0/1/2009         12:30:00 P!           MDL         Result           Units         0.202 mg/kg           0.101 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.0605 mg/kg         0.0665 mg/kg           0.101 mg/kg         0.101 mg/kg	M V Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Cadmium Cobalt Copper Lead Molybdenum Nickel Selenium	HZBS0124AS0 238234013 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7440020	002 Sample 1 Result Value 5.37 93 0.736 0.188 17.4 5.46 8.89 7.95 0.555 12	Matrix 7 Date: 10 RL 1.01 0.403 0.101 0.202 0.605 0.202 0.202 0.403 0.202 0.403	Type:         Soil           0/1/2009         12:30:00 Pl           MDL         Result           Units         0.202 mg/kg           0.101 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.0605 mg/kg         0.0665 mg/kg           0.101 mg/kg         0.0605 mg/kg           0.101 mg/kg         0.101 mg/kg	M V Lab Qualifier	J	vel: V Validation
-	HZBS0124AS0 238234013 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921 7439987 7440020 7782492	002 Sample 1 Result Value 5.37 93 0.736 0.188 17.4 5.46 8.89 7.95 0.555 12 0.504	Matrix 7 Date: 10 RL 1.01 0.403 0.101 0.202 0.605 0.202 0.202 0.403 0.202 0.403 1.01	Type:         Soil           0/1/2009         12:30:00 Pl           MDL         Result           Units         0.202 mg/kg           0.101 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0605 mg/kg           0.0665 mg/kg         0.101 mg/kg           0.101 mg/kg         0.0605 mg/kg           0.101 mg/kg         0.0605 mg/kg	M V Lab Qualifier	Validation Le Validation Qualifier J	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium	HZBS0124AS0 238234013 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7440020 7782492 7440224	002 Sample 3 Result Value 5.37 93 0.736 0.188 17.4 5.46 8.89 7.95 0.555 12 0.504 0.0691	Matrix 7 Date: 10 RL 1.01 0.403 0.101 0.202 0.605 0.202 0.202 0.202 0.403 0.202 0.403 1.01 0.202	Type:         Soil           0/1/2009         12:30:00 Pl           MDL Result Units         Quits           0.202 mg/kg         0.101 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.0202 mg/kg         0.0202 mg/kg           0.0605 mg/kg         0.0665 mg/kg           0.101 mg/kg         0.0605 mg/kg           0.101 mg/kg         0.0605 mg/kg           0.101 mg/kg         0.0605 mg/kg           0.101 mg/kg         0.0605 mg/kg	M V Lab Qualifier	Validation Le Validation Qualifier J	vel: V Validation

Sample Name	HZBS0175S001		Matrix 7	<b>Fype:</b> Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234014	Sample	Date: 1	0/1/2009 1:50:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	5.85	0.993	0.199 mg/kg			
Barium	7440393	82.1	0.397	0.0993 mg/kg			
Beryllium	7440417	0.696	0.0993	0.0199 mg/kg			
Cadmium	7440439	0.29	0.199	0.0199 mg/kg			
Chromium	7440473	19.7	0.596	0.199 mg/kg			
Cobalt	7440484	5.94	0.199	0.0596 mg/kg			
Copper	7440508	11.3	0.199	0.0655 mg/kg			
Lead	7439921	17.3	0.397	0.0993 mg/kg			
Molybdenum	7439987	0.509	0.199	0.0596 mg/kg			
Nickel	7440020	14.4	0.397	0.0993 mg/kg			
Selenium	7782492	0.496	0.993	0.496 mg/kg	U	U	
Silver	7440224	0.086	0.199	0.0397 mg/kg	J	J	
Thallium	7440280	0.314	0.199	0.0596 mg/kg			
Vanadium	7440622	35.8	9.93	1.99 mg/kg			
Zinc	7440666	57.6	1.99	0.397 mg/kg			
Sample Name	HZBS0175S002		Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Sample Name Lab Sample Name:	HZBS0175S002 238234015	Sample		F <b>ype:</b> Soil 0/1/2009 2:10:00 PM		ult Type: Pr Validation Le	
Lab Sample Name:		Sample Result Value				alidation Le	vel: V
Lab Sample Name: Analyte	238234015	Result	Date: 1	)/1/2009 2:10:00 PM MDL Result	V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte	238234015 CAS No	Result Value	Date: 10 RL	0/1/2009 2:10:00 PM MDL Result Units	V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium	238234015 CAS No 7440382	Result Value 4.33	Date: 10 RL 0.997	0/1/2009 2:10:00 PM MDL Result Units 0.199 mg/kg	V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium	238234015 CAS No 7440382 7440393	Result           Value           4.33           63.9	Date: 10 RL 0.997 0.399	0/1/2009 2:10:00 PM MDL Result Units 0.199 mg/kg 0.0997 mg/kg	V Lab	Validation Le Validation	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium	238234015 CAS No 7440382 7440393 7440417	Result           Value           4.33           63.9           0.55	Date: 19 RL 0.997 0.399 0.0997	Diright         MDL Result Units           0.199 mg/kg         0.0997 mg/kg           0.0199 mg/kg         0.0199 mg/kg	Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium	238234015 CAS No 7440382 7440393 7440417 7440439	Result           Value           4.33           63.9           0.55           0.149	Date: 10 RL 0.997 0.399 0.0997 0.199	MDL Result Units           0.199 mg/kg           0.0997 mg/kg           0.0199 mg/kg           0.0199 mg/kg	Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	238234015 CAS No 7440382 7440393 7440417 7440439 7440473	Result           Value           4.33           63.9           0.55           0.149           16	Date: 10 RL 0.997 0.399 0.0997 0.199 0.598	Diright         MDL Result Units           0.199 mg/kg         0.0997 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.199 mg/kg         0.0199 mg/kg	Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	238234015 CAS No 7440382 7440393 7440417 7440439 7440473 7440484	Result           Value           4.33           63.9           0.55           0.149           16           6.65	Date: 10 RL 0.997 0.399 0.0997 0.199 0.598 0.199	D/1/2009 2:10:00 PM         MDL Result Units         0.199 mg/kg         0.0997 mg/kg         0.0199 mg/kg         0.0199 mg/kg         0.0199 mg/kg         0.199 mg/kg         0.0598 mg/kg	Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead	238234015 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508	Result           Value           4.33           63.9           0.55           0.149           16           6.65           7.18	Date: 10 RL 0.997 0.399 0.0997 0.199 0.598 0.199	Diright         MDL Result Units           0.199 mg/kg         0.0997 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.199 mg/kg         0.0199 mg/kg           0.199 mg/kg         0.0199 mg/kg           0.0598 mg/kg         0.0658 mg/kg	Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum	238234015 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440439 7440473 7440484 7440508 7439921	Result           Value           4.33           63.9           0.55           0.149           66.65           7.18           6.84	Date: 10 RL 0.997 0.399 0.0997 0.199 0.598 0.199 0.199	Display="block">Display="block"           MDL Result Units           0.199 mg/kg           0.0997 mg/kg           0.0199 mg/kg           0.0199 mg/kg           0.0199 mg/kg           0.0199 mg/kg           0.0598 mg/kg           0.0658 mg/kg           0.0997 mg/kg	Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Molybdenum	238234015 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921 7439987	Result           Value           4.33           63.9           0.55           0.149           66.5           7.18           6.84           0.314	Date: 10 RL 0.997 0.399 0.0997 0.199 0.598 0.199 0.199 0.399 0.199	Diright         MDL Result Units           0.199 mg/kg         0.0997 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0598 mg/kg           0.00598 mg/kg         0.00997 mg/kg           0.0598 mg/kg         0.00598 mg/kg           0.00598 mg/kg         0.00598 mg/kg	Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium	238234015 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7440020	Result         Value         4.33         63.9         0.55         0.149         6.65         7.18         6.84         0.314         11	Date: 10 RL 0.9977 0.399 0.0997 0.199 0.199 0.199 0.399	Diright         Diright <thdiright< th=""> <th< td=""><td>Lab Qualifier</td><td>J</td><td>vel: V Validation</td></th<></thdiright<>	Lab Qualifier	J	vel: V Validation
-	238234015 CAS No 7440382 7440393 7440439 7440439 7440439 7440473 7440473 7440484 7440508 7439987 7439987 7440020 7782492	Result           Value           4.33           63.9           0.55           0.149           66.65           7.18           6.84           0.314           11           0.498	Date: 14 RL 0.997 0.399 0.0997 0.199 0.199 0.399 0.399 0.399	Diright         MDL Result Units           0.199 mg/kg         0.0997 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0199 mg/kg           0.0199 mg/kg         0.0598 mg/kg           0.00598 mg/kg         0.00598 mg/kg           0.00997 mg/kg         0.0598 mg/kg           0.00598 mg/kg         0.00598 mg/kg           0.00997 mg/kg         0.0598 mg/kg           0.00997 mg/kg         0.0598 mg/kg           0.0498 mg/kg         0.498 mg/kg	U	Validation Le Validation Qualifier J	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Copper Lead Molybdenum Nickel Selenium	238234015 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7439987 7440020 7782492 7440224	Result         Value         4.33         63.9         0.55         0.149         6.65         7.18         6.84         0.314         10         0.498         0.0465	Date: 14 RL 0.9977 0.399 0.0997 0.199 0.199 0.399 0.199 0.399 0.399	D/1/2009 2:10:00 PM         MDL Result Units         0.199 mg/kg         0.0997 mg/kg         0.0199 mg/kg         0.199 mg/kg         0.0199 mg/kg         0.0598 mg/kg         0.0658 mg/kg         0.0598 mg/kg         0.0399 mg/kg	U	Validation Le Validation Qualifier J	vel: V Validation

Sample Name	HZBS0177S001		Matrix 7	Г <b>уре:</b> Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234016	Sample	Date: 10	0/1/2009 3:00:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	5.48	1.01	0.201 mg/kg			
Barium	7440393	83.7	0.403	0.101 mg/kg			
Beryllium	7440417	0.632	0.101	0.0201 mg/kg			
Cadmium	7440439	0.278	0.201	0.0201 mg/kg			
Chromium	7440473	17.7	0.604	0.201 mg/kg			
Cobalt	7440484	6.13	0.201	0.0604 mg/kg			
Copper	7440508	9.96	0.201	0.0665 mg/kg			
Lead	7439921	15.9	0.403	0.101 mg/kg			
Molybdenum	7439987	0.578	0.201	0.0604 mg/kg			
Nickel	7440020	13.8	0.403	0.101 mg/kg			
Selenium	7782492	0.503	1.01	0.503 mg/kg	U	U	
Silver	7440224	0.0677	0.201	0.0403 mg/kg	J	J	
Thallium	7440280	0.283	0.201	0.0604 mg/kg			
Vanadium	7440622	31.6	10.1	2.01 mg/kg			
Zinc	7440666	50.8	2.01	0.403 mg/kg			
Sample Name	HZBS0177S002		Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Sample Name Lab Sample Name:	HZBS0177S002 238234017	Sample		<b>Fype:</b> Soil D/1/2009 3:15:00 PM		ult Type: Pr /alidation Le	
Lab Sample Name:		Sample Result Value				alidation Le	wel: V
Lab Sample Name: Analyte	238234017	Result	<b>Date:</b> 10	0/1/2009 3:15:00 PM MDL Result	V Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic	238234017 CAS No	Result Value	Date: 10 RL	D/1/2009 3:15:00 PM MDL Result Units	V Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium	238234017 CAS No 7440382	Result Value	2 Date: 10 RL 1.08	0/1/2009 3:15:00 PM MDL Result Units 0.216 mg/kg	V Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium	238234017 CAS No 7440382 7440393	Result           Value           5.91           101	<b>PDate:</b> 10 <b>RL</b> 1.08 0.433	0/1/2009 3:15:00 PM MDL Result Units 0.216 mg/kg 0.108 mg/kg	V Lab	Validation Le Validation	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium	238234017 CAS No 7440382 7440393 7440417	Result           Value           5.91           101           0.756	<b>Pate:</b> 10 <b>RL</b> 1.08 0.433 0.108	D/1/2009 3:15:00 PM MDL Result Units 0.216 mg/kg 0.108 mg/kg 0.0216 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium	238234017 CAS No 7440382 7440393 7440417 7440439	Result           Value           5.91           101           0.756           0.168	Date:     10       RL       1.08       0.433       0.108       0.216	MDL Result Units           0.216 mg/kg           0.108 mg/kg           0.0216 mg/kg           0.0216 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	238234017 CAS No 7440382 7440393 7440417 7440439 7440473	Result           Value           5.91           101           0.756           0.168           19.3	Date:     10       RL       1.08       0.433       0.108       0.216       0.649	D/1/2009 3:15:00 PM         MDL Result Units         0.216 mg/kg         0.0216 mg/kg         0.0216 mg/kg         0.216 mg/kg         0.216 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	238234017 CAS No 7440382 7440393 7440417 7440439 7440473 7440484	Result           Value           5.91           101           0.756           0.168           19.3           7.18	Date:     10       RL       1.08       0.433       0.108       0.216       0.649       0.216	D/1/2009 3:15:00 PM         MDL Result Units         0.216 mg/kg         0.108 mg/kg         0.0216 mg/kg         0.0216 mg/kg         0.216 mg/kg         0.0216 mg/kg         0.0216 mg/kg         0.0216 mg/kg         0.0216 mg/kg         0.0216 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead	238234017 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508	Result           Value           5.91           101           0.756           0.168           19.3           7.18           8	Date:       10         RL       1.08         0.433       0.433         0.108       0.216         0.649       0.216         0.216       0.216	MDL Result Units           0.216 mg/kg           0.0216 mg/kg           0.0216 mg/kg           0.0216 mg/kg           0.216 mg/kg           0.0216 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum	238234017 CAS No 7440382 7440393 7440417 7440439 7440439 7440473 7440484 7440508 7439921	Result           Value           5.91           101           0.756           0.168           19.3           7.18           8           7.76	Date:       10         RL       1.08         0.433       0.433         0.108       0.216         0.649       0.216         0.216       0.433	MDL Result Units           0.216 mg/kg           0.0216 mg/kg           0.0216 mg/kg           0.0216 mg/kg           0.0216 mg/kg           0.0216 mg/kg           0.016 mg/kg           0.016 mg/kg           0.016 mg/kg           0.016 mg/kg           0.016 mg/kg           0.016 mg/kg           0.0014 mg/kg           0.108 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Molybdenum	238234017 CAS No 7440382 7440393 7440439 7440439 7440473 7440473 7440484 7440508 7439987	Result           Value           5.91           101           0.756           0.168           19.3           7.18           8           7.76           0.536	Date:       10         RL       1.08         0.433       0.108         0.216       0.649         0.216       0.216         0.433       0.216         0.433       0.216	MDL Result Units           0/1/2009 3:15:00 PM           MDL Result Units           0.216 mg/kg           0.0216 mg/kg           0.0216 mg/kg           0.216 mg/kg           0.0216 mg/kg           0.0216 mg/kg           0.108 mg/kg           0.0216 mg/kg           0.0216 mg/kg           0.016 mg/kg           0.0649 mg/kg           0.108 mg/kg           0.108 mg/kg           0.108 mg/kg	Lab Qualifier	Validation Le Validation Qualifier	vel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium	238234017 <b>CAS No</b> 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7440020	Result           Value           5.91           101           0.756           0.168           19.3           7.18           8           7.76           0.536           13.1	Date:       10         RL       1.08         1.08       0.433         0.108       0.216         0.649       0.216         0.216       0.433         0.216       0.433         0.216       0.433	D/1/2009 3:15:00 PM         MDL Result Units         0.216 mg/kg         0.108 mg/kg         0.0216 mg/kg         0.0216 mg/kg         0.0216 mg/kg         0.0108 mg/kg         0.0108 mg/kg         0.0049 mg/kg         0.108 mg/kg         0.108 mg/kg         0.108 mg/kg         0.108 mg/kg         0.108 mg/kg         0.108 mg/kg	Lab Qualifier	J	wel: V Validation
-	238234017 CAS No 7440382 7440393 7440439 7440439 7440473 7440473 7440473 7440484 7440508 7439987 7439987 7440020 7782492	Result           Value           5.91           101           0.756           0.168           19.3           7.18           8           7.76           0.536           13.1           0.541	Date:       10         RL       1.08         0.433       0.108         0.216       0.649         0.216       0.216         0.433       0.216         0.433       0.216         0.433       0.216         0.433       0.216	MDL Result Units           0/1/2009 3:15:00 PM           MDL Result Units           0.216 mg/kg           0.0216 mg/kg           0.0649 mg/kg           0.0649 mg/kg           0.108 mg/kg	U	Validation Le Validation Qualifier J	wel: V Validation
Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium	238234017 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7439987 7440020 7782492 7440224	Result           Value           5.91           101           0.756           0.168           19.3           7.18           8           7.76           0.536           13.1           0.541           0.0673	Date: 10 RL 1.08 0.433 0.108 0.216 0.216 0.216 0.433 0.216 0.433 1.08 0.216	MDL Result Units           0.216 mg/kg           0.216 mg/kg           0.216 mg/kg           0.0216 mg/kg           0.0216 mg/kg           0.216 mg/kg           0.0216 mg/kg           0.0108 mg/kg           0.0108 mg/kg           0.0014 mg/kg           0.108 mg/kg	U	Validation Le Validation Qualifier J	wel: V Validation

Sample Name	HZBS0180S001		Matrix 7	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234018	Sample	Date: 10	0/1/2009 9:30:00 AM	<b>\</b>	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	5.29	1.01	0.203 mg/kg			
Barium	7440393	79.2	0.405	0.101 mg/kg			
Beryllium	7440417	0.581	0.101	0.0203 mg/kg			
Cadmium	7440439	0.276	0.203	0.0203 mg/kg			
Chromium	7440473	16.7	0.608	0.203 mg/kg			
Cobalt	7440484	5.59	0.203	0.0608 mg/kg			
Copper	7440508	8.86	0.203	0.0668 mg/kg			
Lead	7439921	13	0.405	0.101 mg/kg			
Molybdenum	7439987	0.579	0.203	0.0608 mg/kg			
Nickel	7440020	12	0.405	0.101 mg/kg			
Selenium	7782492	0.506	1.01	0.506 mg/kg	U	U	
Silver	7440224	0.0677	0.203	0.0405 mg/kg	J	J	
Thallium	7440280	0.299	0.203	0.0608 mg/kg			
Vanadium	7440622	31.9	10.1	2.03 mg/kg			
Zinc	7440666	52.7	2.03	0.405 mg/kg			
	7440666 HZBS0180S002	52.7	2.03 Matrix 7		Rest	ult Type: Pr	imary Result
Zinc Sample Name Lab Sample Name:			Matrix 7			ult Type: Pr Validation Le	
Sample Name Lab Sample Name:	HZBS0180S002		Matrix 7	Type: Soil		alidation Le	vel: V
Sample Name Lab Sample Name: Analyte	HZBS0180S002 238234019	Sample Result	Matrix 7 Date: 10	<b>Type:</b> Soil 0/1/2009 10:00:00 AN <b>MDL Result</b>	M V Lab	Validation Le Validation	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic	HZBS0180S002 238234019 CAS No	Sample Result Value	Matrix 7 Date: 10 RL	Type:         Soil           0/1/2009         10:00:00 AN           MDL         Result           Units	M V Lab	Validation Le Validation	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium	HZBS0180S002 238234019 CAS No 7440382	Sample Result Value 4.78	Matrix 7 Date: 10 RL	Type:         Soil           0/1/2009         10:00:00 AN           MDL         Result           Units         0.2 mg/kg	M V Lab	Validation Le Validation	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium	HZBS0180S002 238234019 CAS No 7440382 7440393	Sample Result Value 4.78 78.7	Matrix 7 Date: 10 RL 1 0.401	Type:         Soil           0/1/2009         10:00:00 AN           MDL         Result           Units         0.2 mg/kg           0.1 mg/kg         0.1 mg/kg	M V Lab	Validation Le Validation	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium	HZBS0180S002 238234019 CAS No 7440382 7440393 7440417	Sample Result Value 4.78 78.7 0.634	Matrix 7 Date: 10 RL 1 0.401 0.1	Type:         Soil           0/1/2009         10:00:00 AN           MDL         Result           Units         0.2 mg/kg           0.1 mg/kg         0.02 mg/kg	<sup>M</sup> V Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium	HZBS0180S002 238234019 CAS No 7440382 7440393 7440417 7440439	Sample Result Value 4.78 78.7 0.634 0.151	Matrix 7 Date: 10 RL 1 0.401 0.1 0.2	Type:         Soil           0/1/2009         10:00:00 AN           MDL         Result           Units         0.2 mg/kg           0.1 mg/kg         0.02 mg/kg           0.02 mg/kg         0.02 mg/kg	<sup>M</sup> V Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt	HZBS0180S002 238234019 CAS No 7440382 7440393 7440417 7440439 7440473	Sample Result Value 4.78 78.7 0.634 0.151 14.7	Matrix 7 Date: 10 RL 1 0.401 0.1 0.2 0.601	Type:         Soil           0/1/2009         10:00:00 AN           MDL         Result           Units         0.2 mg/kg           0.1 mg/kg         0.02 mg/kg           0.02 mg/kg         0.02 mg/kg           0.2 mg/kg         0.2 mg/kg	<sup>M</sup> V Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	HZBS0180S002 238234019 CAS No 7440382 7440393 7440417 7440439 7440473 7440484	Sample Result Value 4.78 78.7 0.634 0.151 14.7 4.81	Matrix 7 Date: 10 RL 1 0.401 0.1 0.2 0.601 0.2	Type:         Soil           0/1/2009         10:00:00 AN           MDL Result Units         Output           0.2 mg/kg         0.1 mg/kg           0.02 mg/kg         0.02 mg/kg           0.2 mg/kg         0.2 mg/kg	<sup>M</sup> V Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead	HZBS0180S002 238234019 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508	Sample Result Value 4.78 78.7 0.634 0.151 14.7 4.81 6.72	Matrix 7 Date: 10 RL 1 0.401 0.1 0.2 0.601 0.2 0.2 0.2	Type:         Soil           0/1/2009         10:00:00 AN           MDL Result Units         Output           0.2 mg/kg         0.1 mg/kg           0.02 mg/kg         0.02 mg/kg           0.2 mg/kg         0.02 mg/kg           0.01 mg/kg         0.02 mg/kg           0.02 mg/kg         0.02 mg/kg           0.02 mg/kg         0.02 mg/kg	<sup>M</sup> V Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Copper Lead Molybdenum	HZBS0180S002 238234019 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921	Sample Result Value 4.78 78.7 0.634 0.151 14.7 14.7 4.81 6.72 7.08	Matrix 7 Date: 10 RL 1 0.401 0.1 0.2 0.601 0.2 0.2 0.401	Type:         Soil           0/1/2009         10:00:00 AN           MDL Result Units         Output           0.2 mg/kg         0.1 mg/kg           0.02 mg/kg         0.02 mg/kg           0.2 mg/kg         0.2 mg/kg           0.02 mg/kg         0.2 mg/kg           0.1 mg/kg         0.0601 mg/kg           0.0662 mg/kg         0.1 mg/kg	<sup>M</sup> V Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Molybdenum	HZBS0180S002 238234019 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987	Sample Result Value 4.78 78.7 0.634 0.151 14.7 4.81 6.72 7.08 0.532	Matrix 7 Date: 10 RL 1 0.401 0.1 0.2 0.601 0.2 0.2 0.2 0.2 0.401 0.2	Type:         Soil           0/1/2009         10:00:00 AN           MDL Result Units         Result           0.2 mg/kg         0.1 mg/kg           0.02 mg/kg         0.02 mg/kg           0.02 mg/kg         0.02 mg/kg           0.02 mg/kg         0.02 mg/kg           0.0601 mg/kg         0.0662 mg/kg           0.1 mg/kg         0.1 mg/kg	<sup>M</sup> V Lab Qualifier	/alidation Le Validation Qualifier	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Cadmium Cobalt Copper Lead Molybdenum Nickel Selenium	HZBS0180S002 238234019 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440484 7440508 7439921 7439987 7440020	Sample Result Value 4.78 78.7 0.634 0.151 14.7 4.81 6.72 7.08 0.532 9.42	Matrix 7 Date: 10 RL 1 0.401 0.1 0.2 0.601 0.2 0.401 0.2 0.401	Type:         Soil           0/1/2009         10:00:00 AN           MDL Result Units         Quits           0.2 mg/kg         0.1 mg/kg           0.02 mg/kg         0.02 mg/kg           0.02 mg/kg         0.02 mg/kg           0.0601 mg/kg         0.0662 mg/kg           0.1 mg/kg         0.0661 mg/kg           0.1 mg/kg         0.0601 mg/kg	M V Lab Qualifier	J	vel: V Validation
-	HZBS0180S002 238234019 CAS No 7440382 7440393 7440417 7440439 7440439 7440439 7440484 7440508 7439921 7439987 7440020 7782492	Sample Result Value 4.78 78.7 0.634 0.151 14.7 4.81 6.72 7.08 0.532 9.42 0.501	Matrix 7 Date: 10 RL 1 0.401 0.2 0.601 0.2 0.401 0.2 0.401 0.2 1 0.401	Type:         Soil           0/1/2009         10:00:00 AN           MDL Result Units         Quarks           0.2 mg/kg         0.1 mg/kg           0.02 mg/kg         0.02 mg/kg           0.02 mg/kg         0.02 mg/kg           0.0601 mg/kg         0.0662 mg/kg           0.0601 mg/kg         0.1 mg/kg           0.0601 mg/kg         0.1 mg/kg           0.0601 mg/kg         0.1 mg/kg	M V Lab Qualifier	Validation Le Validation Qualifier J	vel: V Validation
Sample Name Lab Sample Name: Analyte Arsenic Barium Beryllium Cadmium Chromium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium	HZBS0180S002 238234019 CAS No 7440382 7440393 7440417 7440439 7440473 7440473 7440473 7440484 7440508 7439921 7439987 7440020 7782492 7440224	Sample Result Value 4.78 78.7 0.634 0.151 14.7 4.81 6.72 7.08 0.532 9.42 0.501 0.0678	Matrix 7 Date: 10 RL 1 0.401 0.1 0.2 0.601 0.2 0.401 0.2 0.401 1 0.2	Type:         Soil           0/1/2009         10:00:00 AN           MDL Result Units         Quits           0.2 mg/kg         0.1 mg/kg           0.02 mg/kg         0.02 mg/kg           0.02 mg/kg         0.02 mg/kg           0.0601 mg/kg         0.0662 mg/kg           0.1 mg/kg         0.1 mg/kg           0.0601 mg/kg         0.0601 mg/kg           0.0601 mg/kg         0.0601 mg/kg           0.0001 mg/kg         0.0001 mg/kg	M V Lab Qualifier	Validation Le Validation Qualifier J	vel: V Validation

Sample Name	HZBS0080AS0	001	Matrix '	Гуре: S	loil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234004	Sample	Date: 1	0/1/2009 2	2:35:00 PM	<b>T</b>	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.288	0.206	0.051	4 ug/L			
Sample Name	HZBS0080AS0	002	Matrix '	<b>Гуре:</b> S	Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234005	Sample	Date: 1	0/1/2009 2	2:45:00 PM	<b>I I</b>	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.21	0.21	0.052	4 ug/L	U	U	
Sample Name	HZBS0082AS0	001	Matrix	<b>Гуре:</b> S	Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234006	Sample	Date: 1	0/1/2009 8	8:30:00 AN	í V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.236	0.207	0.051	7 ug/L			
Sample Name	HZBS0082AS0	002	Matrix '	<b>Гуре:</b> S	loil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234007	Sample	Date: 1	0/1/2009 9	9:05:00 AN	í V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.21	0.21	0.052	5 ug/L	U	U	
Sample Name	HZBS0084AS0	001	Matrix	<b>Гуре:</b> S	Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234008	Sample	Date: 1	0/1/2009 7	7:50:00 AM	í V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.0702	0.202	0.050	5 ug/L		1	Lab did not provide qualification
Sample Name	HZBS0084AS0	002	Matrix '	<b>Гуре:</b> S	Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234009	Sample	Date: 1	0/1/2009 8	8:15:00 AN	í <b>v</b>	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.0546	0.21	0.052	5 ug/L		1	Lab did not provide qualifications

Sample Name	HZBS0123AS00	1	Matrix 7	<b>Fype:</b> Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234010	Sample	Date: 1	0/1/2009 1:15:00 PM	۲	Validation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.165	0.203	0.0506 ug/L		J	Lab did not provide qualification
Sample Name	HZBS0123AS00	2	Matrix 7	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234011	Sample	Date: 1	0/1/2009 1:30:00 PM	۲	Validation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.111	0.206	0.0515 ug/L		1	Lab did not provide qualification
Sample Name	HZBS0124AS00	1	Matrix 7	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234012	Sample	Date: 1	0/1/2000 11:00:00 41	M N	7 . <b>1</b> ° J . 4° <b>T</b> .	• • •
Lub Sumple Rume.	230231012	Sample	Date.	0/1/2009 11:00:00 AI		Validation Le	evel: V
	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Le Validation Qualifier	
Analyte		Result		MDL Result	Lab	Validation	Validation Notes Lab did not provide
Analyte	CAS No	Result Value	RL	MDL Result Units 0.051 ug/L	Lab Qualifier	Validation Qualifier J	Validation Notes Lab did not provide
Analyte Perchlorate	<b>CAS No</b> 14797730	Result Value 0.0832	<b>RL</b> 0.204 <b>Matrix</b> 7	MDL Result Units 0.051 ug/L	Lab Qualifier Res	Validation Qualifier J	Validation Notes Lab did not provide qualification
Analyte Perchlorate Sample Name Lab Sample Name:	CAS No 14797730 HZBS0124AS00	Result Value 0.0832	<b>RL</b> 0.204 <b>Matrix</b> 7	MDL Result Units 0.051 ug/L Type: Soil	Lab Qualifier Res	Validation Qualifier J ult Type: Pr	Validation Notes Lab did not provide qualification imary Result evel: V
Analyte Perchlorate Sample Name	CAS No 14797730 HZBS0124AS00 238234013	Result Value 0.0832 2 Sample Result	RL 0.204 Matrix 7 Date: 10	MDL Result Units 0.051 ug/L Fype: Soil 0/1/2009 12:30:00 PM MDL Result	Lab Qualifier Res 1 Lab	Validation Qualifier J ult Type: <sup>Pr</sup> Validation Le Validation	Validation Notes Lab did not provide qualification imary Result evel: V Validation Notes Lab did not provide
Analyte Perchlorate Sample Name Lab Sample Name: Analyte	CAS No 14797730 HZBS0124AS00 238234013 CAS No	Result Value 0.0832 2 Sample Result Value	RL 0.204 Matrix 7 Date: 10 RL 0.208	MDL Result Units 0.051 ug/L Fype: Soil 0/1/2009 12:30:00 PN MDL Result Units	Lab Qualifier Res 4 Lab Qualifier	Validation Qualifier J ult Type: Pr Validation Le Validation Qualifier	Validation Notes Lab did not provide qualification imary Result evel: V Validation Notes Lab did not provide qualification
Analyte Perchlorate Sample Name Lab Sample Name: Analyte Perchlorate	CAS No 14797730 HZBS0124AS00 238234013 CAS No 14797730	Result Value 0.0832 2 Sample Result Value 0.073	RL 0.204 Matrix 7 Date: 10 RL 0.208 Matrix 7	MDL Result Units           0.051 ug/L           Type:         Soil           0/1/2009 12:30:00 PN           MDL Result Units           0.052 ug/L	Lab Qualifier Res A Lab Qualifier Res	Validation Qualifier J ult Type: Pr Validation Le Validation Qualifier J	Validation Notes Lab did not provide qualification imary Result evel: V Validation Notes Lab did not provide qualification
Analyte Perchlorate Sample Name Lab Sample Name: Analyte Perchlorate Sample Name	CAS No 14797730 HZBS0124AS00 238234013 CAS No 14797730 HZBS0175S001	Result Value 0.0832 2 Sample Result Value 0.073	RL 0.204 Matrix 7 Date: 10 RL 0.208 Matrix 7	MDL Result Units 0.051 ug/L Fype: Soil 0/1/2009 12:30:00 PN MDL Result Units 0.052 ug/L	Lab Qualifier Res A Lab Qualifier Res	Validation Qualifier J ult Type: Pr Validation Le Validation Qualifier J ult Type: Pr	Validation Notes Lab did not provide qualification imary Result evel: V Validation Notes Lab did not provide qualification

Sample Name	HZBS0175S002		Matrix '	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234015	Sample	Date: 1	0/1/2009 2:10:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.167	0.205	0.0512 ug/L		1	Lab did not provide qualification
Sample Name	HZBS0177S001		Matrix '	Type: Soil	Rest	alt Type: Pr	imary Result
Lab Sample Name:	238234016	Sample	Date: 1	0/1/2009 3:00:00 PM	v	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.0652	0.202	0.0506 ug/L		1	Lab did not provide qualification
Sample Name	HZBS0177S002		Matrix '	<b>Fype:</b> Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234017	Sample	Date: 1	0/1/2009 3:15:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.224	0.224	0.056 ug/L	U	U	
Sample Name	HZBS0180S001		Matrix '	<b>Fype:</b> Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234018	Sample	Date: 1	0/1/2009 9:30:00 AM	I I	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.236	0.205	0.0511 ug/L			
Sample Name	HZBS0180S002		Matrix '	<b>Fype:</b> Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234019	Sample	Date: 1	0/1/2009 10:00:00 AN	м у	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Perchlorate	14797730	0.125	0.208	0.0521 ug/L		J	Lab did not provide qualification

Sample Name	EBQW2249		Matrix '	Type: Water	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234001	Sample I	Date: 1	0/1/2009 3:30:00 PM	v	Validation Le	evel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.066	0.2	0.066 ug/L	U	U	

Analysis Method 7470A

Sample Name	HZBS0080AS0	01	Matrix 7	Type: Soil	Res	ult Type: Pr	imarv Result
Lab Sample Name:	238234004			0/1/2009 2:35:00 PM		/alidation Le	
Lab Sample Name:	230234004	Sample	Date: 1	0/1/2007 2.55.00 I W	```	anuation Le	vei. v
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.0159	0.0111	0.00377 mg/kg		1	В
Sample Name	HZBS0080AS0	02	Matrix 7	Type: Soil	Rest	alt Type: Pr	imary Result
Lab Sample Name:	238234005	Sample	Date: 1	0/1/2009 2:45:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.0145	0.0117	0.00399 mg/kg		1	В
Sample Name	HZBS0082AS0	01	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234006	Sample	Date: 1	0/1/2009 8:30:00 AM	۲ ا	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.011	0.0103	0.00351 mg/kg		J	В
Sample Name	HZBS0082AS0	02	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234007	Sample	Date: 1	0/1/2009 9:05:00 AM	v	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.00718	0.0113	0.00384 mg/kg	J	J	В
Sample Name	HZBS0084AS0	01	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234008	Sample	Date: 1	0/1/2009 7:50:00 AM	۲ ا	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.0153	0.0119	0.00403 mg/kg		J	В
Sample Name	HZBS0084AS0	02	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234009	Sample	Date: 1	0/1/2009 8:15:00 AM	, v	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.00783	0.0123	0.00418 mg/kg	J	J	В
Sample Name	HZBS0123AS0	01	Matrix 7	Type: Soil	Rest	alt Type: Pr	imary Result
Lab Sample Name:	238234010	Sample	Date: 1	0/1/2009 1:15:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes

# Analysis Method 7471A

	<i>fu 14111</i>						
Sample Name	HZBS0123AS00	2	Matrix 7	Type: Soil	Resu	ult Type: Pr	imary Result
Lab Sample Name:	238234011	Sample	Date: 1	0/1/2009 1:30:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.00769	0.0105	0.00357 mg/kg	J	1	В
Sample Name	HZBS0124AS00	1	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234012	Sample	Date: 1	0/1/2009 11:00:00 AM	м у	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.0113	0.0112	0.00382 mg/kg		1	В
Sample Name	HZBS0124AS00	2	Matrix 7	<b>Fype:</b> Soil	Resu	alt Type: Pr	imary Result
Lab Sample Name:	238234013	Sample	Date: 1	0/1/2009 12:30:00 PN	4 <b>v</b>	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.0109	0.0125	0.00424 mg/kg	J	J	В
Sample Name	HZBS0175S001		Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234014	Sample	Date: 1	0/1/2009 1:50:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.0146	0.0121	0.00411 mg/kg		J	В
Sample Name	HZBS0175S002		Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234015	Sample	Date: 1	0/1/2009 2:10:00 PM	v	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.00874	0.0104	0.00353 mg/kg	J	J	В
Sample Name	HZBS0177S001		Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234016	Sample	Date: 1	0/1/2009 3:00:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.0158	0.0121	0.00412 mg/kg		1	В
Sample Name	HZBS0177S002		Matrix 7	Type: Soil	Resu	alt Type: Pr	imary Result
Lab Sample Name:	238234017	Sample	Date: 1	0/1/2009 3:15:00 PM	v	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes

# Analysis Method 7471A

Sample Name	HZBS0180S001		Matrix	Type: Soil	Result Type: Primary Resu			
Lab Sample Name:	238234018	Sample	Date: 1	0/1/2009 9:30:00 AM	í <b>v</b>	Validation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Mercury	7439976	0.00357	0.0105	0.00357 mg/kg	U	UJ	В	
Sample Name	HZBS0180S002		Matrix	Type: Soil	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238234019	Sample	Date: 1	0/1/2009 10:00:00 AM	м	Validation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Mercury	7439976	0.0104	0.0113	0.00385 mg/kg	T	J	В	

# Analysis Method 7471A

Sample Name	EBQW2249		Matrix 7	Type: Water	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238234001	Sample 1	Date: 1	0/1/2009 3:30:00 PM	<b>T</b>	Validation Level: V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
EFH (C12 - C14)	EFHD (C12	95.2	95.2	31.4 ug/L	U	U		
EFH (C15 - C20)	EFHD (C15	95.2	95.2	31.4 ug/L	U	U		
EFH (C21 - C30)	EFHD (C21	95.2	95.2	31.4 ug/L	U	U		
EFH (C8 - C11)	EFHD (C8-	95.2	95.2	31.4 ug/L	U	U		
Sample Name	HVBF33AS01		Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238234002	Sample	Sample Date: 10/1/2009 10:18:00 AM			alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
EFH (C12 - C14)	EFHD (C12	3.4	3.4	1.12 mg/kg	U	U		
EFH (C15 - C20)	EFHD (C15	3.4	3.4	1.12 mg/kg	U	U		
EFH (C21 - C30)	EFHD (C21	2.11	3.4	1.12 mg/kg	J	J		
EFH (C8 - C11)	EFHD (C8-	3.4	3.4	1.12 mg/kg	U	U		
Sample Name	HVBF33AS02		Matrix 7	Type: Soil	<b>Result Type:</b> Primary Resul			
Lab Sample Name:	238234003	Sample	Date: 1	0/1/2009 10:40:00 A	M Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
EFH (C12 - C14)	EFHD (C12	3.49	3.49	1.15 mg/kg	U	U		
EFH (C15 - C20)	EFHD (C15	3.49	3.49	1.15 mg/kg	U	U		
EFH (C21 - C30)	EFHD (C21	3.49	3.49	1.15 mg/kg	U	U		
EFH (C8 - C11)	EFHD (C8-	3.49	3.49	1.15 mg/kg	U	U		
Sample Name	HZBS0080AS0	01	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238234004	Sample 1	Date: 1	0/1/2009 2:35:00 PM	<b>V</b>	alidation Le	vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
EFH (C12 - C14)	EFHD (C12	3.43	3.43	1.13 mg/kg	U	U		
EFH (C15 - C20)	EFHD (C15	3.43	3.43	1.13 mg/kg	U	U		
EFH (C21 - C30)	EFHD (C21	3.34	3.43	1.13 mg/kg	J	1		

Sample Name	HZBS0080AS0	02	Matrix 7	Type: Soil	Res	ult Type: Pri	imary Result		
Lab Sample Name:	238234005	Sample	Date: 10	0/1/2009 2:45:00 PM	Validation Level: V				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
EFH (C12 - C14)	EFHD (C12	3.49	3.49	1.15 mg/kg	U	U			
EFH (C15 - C20)	EFHD (C15	3.49	3.49	1.15 mg/kg	U	U			
EFH (C21 - C30)	EFHD (C21	3.49	3.49	1.15 mg/kg	U	U			
EFH (C8 - C11)	EFHD (C8-	3.49	3.49	1.15 mg/kg	U	U			
Sample Name	HZBS0082AS0	01	Matrix Type: Soil			ult Type: Pri	imary Result		
Lab Sample Name:	238234006	Sample Date: 10/1/2009 8:30:00 AM			ı v	alidation 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	1.14 mg/kg	U	U			
EFH (C15 - C20)	EFHD (C15	3.44	3.44	1.14 mg/kg	U	U			
EFH (C21 - C30)	EFHD (C21	1.74	3.44	1.14 mg/kg	J	J			
EFH (C8 - C11)	EFHD (C8-	3.44	3.44	1.14 mg/kg	U	U			
Sample Name	HZBS0082AS0	02	Matrix Type: Soil Result Type: Primary F						
Lab Sample Name:	238234007	Sample	Date: 10	0/1/2009 9:05:00 AM	M Validation Level: V				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
EFH (C12 - C14)	EFHD (C12	3.49	3.49	1.15 mg/kg	U	U			
EFH (C15 - C20)	EFHD (C15	3.49	3.49	1.15 mg/kg	U	U			
EFH (C21 - C30)	EFHD (C21	3.49	3.49	1.15 mg/kg	U	U			
EFH (C8 - C11)	EFHD (C8-	3.49	3.49	1.15 mg/kg	U	U			
Sample Name	HZBS0084AS0	01	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result		
Lab Sample Name:	238234008	Sample	Date: 10	0/1/2009 7:50:00 AM	ı v	alidation Le	vel: V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
EFH (C12 - C14)	EFHD (C12	3.37	3.37	1.11 mg/kg	U	U			
		0.07	2 27	1.11 mg/kg	U	U			
EFH (C15 - C20)	EFHD (C15	3.37	3.37	1.11 mg/kg	U	U			
EFH (C15 - C20) EFH (C21 - C30)	EFHD (C15 EFHD (C21	2.02	3.37	1.11 mg/kg	J	1			

Sample Name	HZBS0084AS0	02	Matrix 7	Г <b>уре:</b> Soil	Res	ult Type: Pr	imary Result		
Lab Sample Name:	238234009	Sample	Date: 10	0/1/2009 8:15:00 AN	Validation Level: $V$				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
EFH (C12 - C14)	EFHD (C12	3.5	3.5	1.15 mg/kg	U	U			
EFH (C15 - C20)	EFHD (C15	3.5	3.5	1.15 mg/kg	U	U			
EFH (C21 - C30)	EFHD (C21	3.5	3.5	1.15 mg/kg	U	U			
EFH (C8 - C11)	EFHD (C8-	3.5	3.5	1.15 mg/kg	U	U			
Sample Name	HZBS0123AS0	01	Matrix Type: Soil			ult Type: Pr	imary Result		
Lab Sample Name:	238234010	Sample	Sample Date: 10/1/2009 1:15:00 PM			Validation Le	vel: V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
EFH (C12 - C14)	EFHD (C12	3.38	3.38	1.11 mg/kg	U	U			
EFH (C15 - C20)	EFHD (C15	3.38	3.38	1.11 mg/kg	U	U			
EFH (C21 - C30)	EFHD (C21	6.11	3.38	1.11 mg/kg					
EFH (C8 - C11)	EFHD (C8-	3.38	3.38	1.11 mg/kg	U	U			
Sample Name	HZBS0123AS0	02	Matrix 7	Г <b>уре:</b> Soil	<b>Result Type:</b> Primary Resul				
Lab Sample Name:	238234011	Sample	Date: 10	0/1/2009 1:30:00 PM	Г <b>Т</b>	Validation Le	vel: V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
EFH (C12 - C14)	EFHD (C12	3.43	3.43	1.13 mg/kg	U	U			
EFH (C15 - C20)	EFHD (C15	3.43	3.43	1.13 mg/kg	U	U			
EFH (C21 - C30)	EFHD (C21	2.31	3.43	1.13 mg/kg	J	J			
EFH (C8 - C11)	EFHD (C8-	3.43	3.43	1.13 mg/kg	U	U			
Sample Name	HZBS0124AS0	01	Matrix 7	Г <b>уре:</b> Soil	Res	ult Type: Pr	imary Result		
Lab Sample Name:	238234012	Sample	Date: 10	0/1/2009 11:00:00 A	M	Validation Le	vel: V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
EFH (C12 - C14)	EFHD (C12	3.4	3.4	1.12 mg/kg	U	U			
				1.10 /	U	U			
EFH (C15 - C20)	EFHD (C15	3.4	3.4	1.12 mg/kg	U	U			
EFH (C15 - C20) EFH (C21 - C30)	EFHD (C15 EFHD (C21	3.4 2.8	3.4	1.12 mg/kg 1.12 mg/kg	J	1			

Sample Name	HZBS0124AS00	2	Matrix 7	Type: Soil	<b>Result Type:</b> Primary Result					
Lab Sample Name:	238234013	Sample	Date: 10	0/1/2009 12:30:00 PI	M	1 Validation Level: V				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes			
EFH (C12 - C14)	EFHD (C12	3.47	3.47	1.14 mg/kg	U	U				
EFH (C15 - C20)	EFHD (C15	3.47	3.47	1.14 mg/kg	U	U				
EFH (C21 - C30)	EFHD (C21	3.47	3.47	1.14 mg/kg	U	U				
EFH (C8 - C11)	EFHD (C8-	3.47	3.47	1.14 mg/kg	U	U				
Sample Name	HZBS0175S001		Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result			
Lab Sample Name:	238234014	Sample Date: 10/1/2009 1:50:00 PM			ı ı	Validation Le	vel: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes			
EFH (C12 - C14)	EFHD (C12	3.37	3.37	1.11 mg/kg	U	U				
EFH (C15 - C20)	EFHD (C15	1.52	3.37	1.11 mg/kg	J	J				
EFH (C21 - C30)	EFHD (C21	3.89	3.37	1.11 mg/kg						
EFH (C8 - C11)	EFHD (C8-	3.37	3.37	1.11 mg/kg	U	U				
Sample Name	HZBS0175S002		Matrix 7	Type: Soil	<b>Result Type:</b> Primary Result					
Lab Sample Name:	238234015	Sample	Date: 10	0/1/2009 2:10:00 PM	t t	Validation Level: V				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes			
EFH (C12 - C14)	EFHD (C12	3.42	3.42	1.13 mg/kg	U	U				
EFH (C15 - C20)	EFHD (C15	3.42	3.42	1.13 mg/kg	U	U				
EFH (C21 - C30)	EFHD (C21	1.75	3.42	1.13 mg/kg	J	J				
EFH (C8 - C11)	EFHD (C8-	3.42	3.42	1.13 mg/kg	U	U				
Sample Name	HZBS0177S001		Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result			
Lab Sample Name:	238234016	Sample	Date: 10	0/1/2009 3:00:00 PM	I I	Validation Le	vel: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes			
EFH (C12 - C14)	EFHD (C12	3.37	3.37	1.11 mg/kg	U	U				
					••					
EFH (C15 - C20)	EFHD (C15	3.37	3.37	1.11 mg/kg	U	U				
. ,	EFHD (C15 EFHD (C21	3.37 5.07	3.37 3.37	1.11 mg/kg 1.11 mg/kg	U	U				

Sample Name	HZBS0177S002	HZBS0177S002 Matrix Type: Soil					<b>Result Type:</b> Primary Result			
Lab Sample Name:	238234017	238234017 Sample Date: 10/1/2009 3:15:00 PM			Validation Level: V					
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes			
EFH (C12 - C14)	EFHD (C12	3.73	3.73	1.23 mg/kg	U	U				
EFH (C15 - C20)	EFHD (C15	3.73	3.73	1.23 mg/kg	U	U				
EFH (C21 - C30)	EFHD (C21	3.73	3.73	1.23 mg/kg	U	U				
EFH (C8 - C11)	EFHD (C8-	3.73	3.73	1.23 mg/kg	U	U				
Sample Name	HZBS0180S001		Matrix 7	Fype: Soil	Res	ult Type: Pr	imary Result			
Lab Sample Name:	238234018	Sample	Date: 1	0/1/2009 9:30:00 AM	1 1	Validation Le	vel: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes			
EFH (C12 - C14)	EFHD (C12	3.41	3.41	1.12 mg/kg	U	U				
EFH (C15 - C20)	EFHD (C15	5.96	3.41	1.12 mg/kg						
EFH (C21 - C30)	EFHD (C21	24	3.41	1.12 mg/kg						
EFH (C8 - C11)	EFHD (C8-	3.41	3.41	1.12 mg/kg	U	U				
Sample Name	HZBS0180S002		Matrix 7	Fype: Soil	Res	ult Type: Pr	imary Result			
Lab Sample Name:	238234019	Sample	Date: 1	0/1/2009 10:00:00 A	М	Validation Le	vel: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes			
EFH (C12 - C14)	EFHD (C12	3.47	3.47	1.15 mg/kg	U	U				
EFH (C15 - C20)	EFHD (C15	3.47	3.47	1.15 mg/kg	U	U				
EFH (C21 - C30)	EFHD (C21	2.54	3.47	1.15 mg/kg	J	J				

Sample Name	EBQW2249		Matrix 7	Type: Water	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234001	Sample	Date: 1	0/1/2009 3:30:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	0.0943	0.0943	0.0314 ug/L	U	U	
Aroclor-1221	11104282	0.0943	0.0943	0.0314 ug/L	U	U	
Aroclor-1232	11141165	0.0943	0.0943	0.0314 ug/L	U	U	
Aroclor-1242	53469219	0.0943	0.0943	0.0314 ug/L	U	U	
Aroclor-1248	12672296	0.0943	0.0943	0.0314 ug/L	U	U	
Aroclor-1254	11097691	0.0943	0.0943	0.0314 ug/L	U	U	
Aroclor-1260	11096825	0.0943	0.0943	0.0314 ug/L	U	U	
Sample Name	HVBF33AS01		Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234002	Sample Date:         10/1/2009 10:18:00 AM         Validation Level				vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1221	11104282	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1232	11141165	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1242	53469219	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1248	12672296	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1254	11097691	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1260	11096825	3.4	3.4	1.13 ug/kg	U	U	
Sample Name	HVBF33AS02		Matrix 7	Гуре: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234003	Sample	Date: 1	0/1/2009 10:40:00 AM	м у	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.49	3.49	1.16 ug/kg	U	U	
Aroclor-1221	11104282	3.49	3.49	1.16 ug/kg	U	U	
Aroclor-1232	11141165	3.49	3.49	1.16 ug/kg	U	U	
Aroclor-1242	53469219	3.49	3.49	1.16 ug/kg	U	U	
Aroclor-1248	12672296	3.49	3.49	1.16 ug/kg	U	U	
Aroclor-1254	11097691	3.49	3.49	1.16 ug/kg	U	U	

Sample Name	HZBS0080AS0	01	Matrix 7	Гуре: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234004	Sample	Date: 10	0/1/2009 2:35:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.43	3.43	1.14 ug/kg	U	U	
Aroclor-1221	11104282	3.43	3.43	1.14 ug/kg	U	U	
Aroclor-1232	11141165	3.43	3.43	1.14 ug/kg	U	U	
Aroclor-1242	53469219	3.43	3.43	1.14 ug/kg	U	U	
Aroclor-1248	12672296	3.43	3.43	1.14 ug/kg	U	U	
Aroclor-1254	11097691	3.43	3.43	1.14 ug/kg	U	U	
Aroclor-1260	11096825	3.43	3.43	1.14 ug/kg	U	U	
Sample Name	HZBS0080AS0	02	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234005	Sample	Date: 10	0/1/2009 2:45:00 PM	M Validation Level: V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.49	3.49	1.16 ug/kg	U	U	
Aroclor-1221	11104282	3.49	3.49	1.16 ug/kg	U	U	
Aroclor-1232	11141165	3.49	3.49	1.16 ug/kg	U	U	
Aroclor-1242	53469219	3.49	3.49	1.16 ug/kg	U	U	
Aroclor-1248	12672296	3.49	3.49	1.16 ug/kg	U	U	
Aroclor-1254	11097691	3.49	3.49	1.16 ug/kg	U	U	
Aroclor-1260	11096825	3.49	3.49	1.16 ug/kg	U	U	
Sample Name	HZBS0082AS0	01	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234006	Sample	Date: 10	0/1/2009 8:30:00 AM	. v	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.44	3.44	1.15 ug/kg	U	U	
Aroclor-1221	11104282	3.44	3.44	1.15 ug/kg	U	U	
Aroclor-1232	11141165	3.44	3.44	1.15 ug/kg	U	U	
Aroclor-1242	53469219	3.44	3.44	1.15 ug/kg	U	U	
Aroclor-1248	12672296	3.44	3.44	1.15 ug/kg	U	U	
Aroclor-1254	11097691	3.44	3.44	1.15 ug/kg	U	U	

Sample Name	HZBS0082AS0	002	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234007	alidation Le	ion Level: V				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.5	3.5	1.16 ug/kg	U	U	
Aroclor-1221	11104282	3.5	3.5	1.16 ug/kg	U	U	
Aroclor-1232	11141165	3.5	3.5	1.16 ug/kg	U	U	
Aroclor-1242	53469219	3.5	3.5	1.16 ug/kg	U	U	
Aroclor-1248	12672296	3.5	3.5	1.16 ug/kg	U	U	
Aroclor-1254	11097691	3.5	3.5	1.16 ug/kg	U	U	
Aroclor-1260	11096825	3.5	3.5	1.16 ug/kg	U	U	
Sample Name	HZBS0084AS0	001	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234008	Sample	Date: 10	0/1/2009 7:50:00 AM	AM Validation Level: V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1221	11104282	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1232	11141165	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1242	53469219	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1248	12672296	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1254	11097691	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1260	11096825	3.37	3.37	1.12 ug/kg	U	U	
Sample Name	HZBS0084AS0	002	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234009	Sample	Date: 10	)/1/2009 8:15:00 AN	ı v	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.5	3.5	1.17 ug/kg	U	U	
Aroclor-1221	11104282	3.5	3.5	1.17 ug/kg	U	U	
Aroclor-1232	11141165	3.5	3.5	1.17 ug/kg	U	U	
Aroclor-1242	53469219	3.5	3.5	1.17 ug/kg	U	U	
Aroclor-1248	12672296	3.5	3.5	1.17 ug/kg	U	U	
Aroclor-1254	11097691	3.5	3.5	1.17 ug/kg	U	U	

Sample Name	HZBS0123AS0	001	Matrix 7	Гуре: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234010	Sample	Date: 10	0/1/2009 1:15:00 PM	v	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1221	11104282	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1232	11141165	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1242	53469219	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1248	12672296	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1254	11097691	2.5	3.37	1.12 ug/kg	J	1	
Aroclor-1260	11096825	5.2	3.37	1.12 ug/kg	Р	J	*III
Sample Name	HZBS0123AS0	002	Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234011	Sample	Date: 10	0/1/2009 1:30:00 PM	PM Validation Level: V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.43	3.43	1.14 ug/kg	U	U	
Aroclor-1221	11104282	3.43	3.43	1.14 ug/kg	U	U	
Aroclor-1232	11141165	3.43	3.43	1.14 ug/kg	U	U	
Aroclor-1242	53469219	3.43	3.43	1.14 ug/kg	U	U	
Aroclor-1248	12672296	3.43	3.43	1.14 ug/kg	U	U	
Aroclor-1254	11097691	3.43	3.43	1.14 ug/kg	U	U	
Aroclor-1260	11096825	3.43	3.43	1.14 ug/kg	U	U	
Sample Name	HZBS0124AS0	001	Matrix 7	Type: Soil	Res	ult Type: Pri	imary Result
Lab Sample Name:	238234012	Sample	Date: 10	0/1/2009 11:00:00 AI	M	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1221	11104282	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1232	11141165	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1242	53469219	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1248	12672296	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1254	11097691	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1260							

Sample Name	HZBS0124AS00	2	Matrix 7	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234013	Sample	Date: 10	0/1/2009 12:30:00 PM	M N	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.47	3.47	1.15 ug/kg	U	U	
Aroclor-1221	11104282	3.47	3.47	1.15 ug/kg	U	U	
Aroclor-1232	11141165	3.47	3.47	1.15 ug/kg	U	U	
Aroclor-1242	53469219	3.47	3.47	1.15 ug/kg	U	U	
Aroclor-1248	12672296	3.47	3.47	1.15 ug/kg	U	U	
Aroclor-1254	11097691	3.47	3.47	1.15 ug/kg	U	U	
Aroclor-1260	11096825	3.47	3.47	1.15 ug/kg	U	U	
Sample Name	HZBS0175S001		Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234014	Sample Date: 10/1/2009 1:50:00 PM Validation Leve				vel: V	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.38	3.38	1.13 ug/kg	U	U	
Aroclor-1221	11104282	3.38	3.38	1.13 ug/kg	U	U	
Aroclor-1232	11141165	3.38	3.38	1.13 ug/kg	U	U	
Aroclor-1242	53469219	3.38	3.38	1.13 ug/kg	U	U	
Aroclor-1248	12672296	3.38	3.38	1.13 ug/kg	U	U	
Aroclor-1254	11097691	3.38	3.38	1.13 ug/kg	U	U	
Aroclor-1260	11096825	3.38	3.38	1.13 ug/kg	U	U	
Sample Name	HZBS0175S002		Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234015	Sample	Date: 10	0/1/2009 2:10:00 PM	· · ·	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.41	3.41	1.13 ug/kg	U	U	
Aroclor-1221	11104282	3.41	3.41	1.13 ug/kg	U	U	
Aroclor-1232	11141165	3.41	3.41	1.13 ug/kg	U	U	
Aroclor-1242	53469219	3.41	3.41	1.13 ug/kg	U	U	
Aroclor-1248	12672296	3.41	3.41	1.13 ug/kg	U	U	
Aroclor-1254	11097691	3.41	3.41	1.13 ug/kg	U	U	
Aroclor-1260	11096825	3.41	3.41	1.13 ug/kg	U	U	

Sample Name	HZBS0177S001		Matrix 7	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234016	Sample	Date: 1	0/1/2009 3:00:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1221	11104282	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1232	11141165	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1242	53469219	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1248	12672296	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1254	11097691	3.37	3.37	1.12 ug/kg	U	U	
Aroclor-1260	11096825	3.37	3.37	1.12 ug/kg	U	U	
Sample Name	HZBS0177S002		Matrix 7	Type: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234017	Sample	Sample Date: 10/1/2009 3:15:00 PM Validation Lev				vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.74	3.74	1.24 ug/kg	U	U	
Aroclor-1221	11104282	3.74	3.74	1.24 ug/kg	U	U	
Aroclor-1232	11141165	3.74	3.74	1.24 ug/kg	U	U	
Aroclor-1242	53469219	3.74	3.74	1.24 ug/kg	U	U	
Aroclor-1248	12672296	3.74	3.74	1.24 ug/kg	U	U	
Aroclor-1254	11097691	3.74	3.74	1.24 ug/kg	U	U	
Aroclor-1260	11096825	3.74	3.74	1.24 ug/kg	U	U	
Sample Name	HZBS0180S001		Matrix 7	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234018	Sample	Date: 1	0/1/2009 9:30:00 AM	v	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1221	11104282	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1232	11141165	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1242	53469219	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1248	12672296	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1254	11097691	3.4	3.4	1.13 ug/kg	U	U	
Aroclor-1260							

Sample Name	HZBS0180S002		Matrix '	Type: Soil	Res	<b>Result Type:</b> Primary Result			
Lab Sample Name:	238234019	Sample	Date: 1	0/1/2009 10:00:00 A	M Validation Level: V				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
Aroclor-1016	12674112	3.47	3.47	1.15 ug/kg	U	U			
Aroclor-1221	11104282	3.47	3.47	1.15 ug/kg	U	U			
Aroclor-1232	11141165	3.47	3.47	1.15 ug/kg	U	U			
Aroclor-1242	53469219	3.47	3.47	1.15 ug/kg	U	U			
Aroclor-1248	12672296	3.47	3.47	1.15 ug/kg	U	U			
Aroclor-1254	11097691	3.47	3.47	1.15 ug/kg	U	U			
Aroclor-1260	11096825	3.47	3.47	1.15 ug/kg	U	U			

Sample Name	EBQW2249		Matrix '	Type: Water	Rest	alt Type: Pr	imary Result	
Lab Sample Name:	238234001	Sample l	Date: 1	0/1/2009 3:30:00 PM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
l-Methyl naphthalene	90120	0.472	0.472	0.142 ug/L	U	U		
2-Methylnaphthalene	91576	0.472	0.472	0.142 ug/L	U	U		
Acenaphthene	83329	0.472	0.472	0.146 ug/L	U	U		
Acenaphthylene	208968	0.472	0.472	0.0943 ug/L	U	U		
Anthracene	120127	0.472	0.472	0.0943 ug/L	U	U		
Benzo(a)anthracene	56553	0.472	0.472	0.0943 ug/L	U	U		
Benzo(a)pyrene	50328	0.472	0.472	0.0943 ug/L	U	U		
Benzo(b)fluoranthene	205992	0.472	0.472	0.0943 ug/L	U	U		
Benzo(ghi)perylene	191242	0.472	0.472	0.0943 ug/L	U	U		
Benzo(k)fluoranthene	207089	0.472	0.472	0.0943 ug/L	U	U		
bis(2-ethylhexyl)phthalate	117817	0.472	0.472	0.142 ug/L	BJ	U	B, result changed from 0.157	
Butyl benzyl phthalate	85687	0.472	0.472	0.142 ug/L	U	U		
Chrysene	218019	0.472	0.472	0.0943 ug/L	U	U		
Dibenzo(a,h)anthracene	53703	0.472	0.472	0.0943 ug/L	U	U		
Diethylphthalate	84662	0.472	0.472	0.142 ug/L	U	U		
Dimethylphthalate	131113	0.472	0.472	0.142 ug/L	U	U		
Di-n-butylphthalate	84742	0.472	0.472	0.142 ug/L	U	U		
Di-n-octyl-phthalate	117840	0.472	0.472	0.142 ug/L	U	U		
Fluoranthene	206440	0.472	0.472	0.0943 ug/L	U	U		
Fluorene	86737	0.472	0.472	0.0943 ug/L	U	U		
indeno(1,2,3-cd)pyrene	193395	0.472	0.472	0.0943 ug/L	U	U		
Naphthalene	91203	0.472	0.472	0.142 ug/L	U	U		
n-Nitrosodimethylamine	62759	0.472	0.472	0.0943 ug/L	U	U		
Phenanthrene	85018	0.472	0.472	0.0943 ug/L	U	U		
Pyrene	129000	0.472	0.472	0.142 ug/L	U	U		

Sample Name	HVBF33AS01	]	Matrix '	Fype: Soil	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238234002	Sample I	Date: 1	0/1/2009 10:18:00 A	M Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1-Methyl naphthalene	90120	17	17	5.1 ug/kg	U	U		
2-Methylnaphthalene	91576	17	17	3.4 ug/kg	U	U		
Acenaphthene	83329	17	17	5.67 ug/kg	U	U		
Acenaphthylene	208968	17	17	5.1 ug/kg	U	U		
Anthracene	120127	17	17	3.4 ug/kg	U	U		
Benzo(a)anthracene	56553	17	17	5.1 ug/kg	U	U		
Benzo(a)pyrene	50328	17	17	5.1 ug/kg	U	U		
Benzo(b)fluoranthene	205992	17	17	5.1 ug/kg	U	U		
Benzo(ghi)perylene	191242	17	17	5.1 ug/kg	U	U		
Benzo(k)fluoranthene	207089	17	17	5.1 ug/kg	U	U		
bis(2-ethylhexyl)phthalate	117817	28.9	17	5.61 ug/kg				
Butyl benzyl phthalate	85687	17	17	5.1 ug/kg	U	U		
Chrysene	218019	17	17	5.1 ug/kg	U	U		
Dibenzo(a,h)anthracene	53703	17	17	5.1 ug/kg	U	U		
Diethylphthalate	84662	17	17	5.1 ug/kg	U	U		
Dimethylphthalate	131113	17	17	5.1 ug/kg	U	U		
Di-n-butylphthalate	84742	17	17	5.1 ug/kg	U	U		
Di-n-octyl-phthalate	117840	17	17	5.1 ug/kg	U	U		
Fluoranthene	206440	17	17	5.1 ug/kg	U	U		
Fluorene	86737	17	17	5.1 ug/kg	U	U		
Indeno(1,2,3-cd)pyrene	193395	17	17	5.1 ug/kg	U	U		
Naphthalene	91203	17	17	5.1 ug/kg	U	U		
n-Nitrosodimethylamine	62759	17	17	3.4 ug/kg	U	U		
Phenanthrene	85018	17	17	5.1 ug/kg	U	U		
Pyrene	129000	17	17	5.33 ug/kg	U	U		

Sample Name	HVBF33AS02	]	Matrix '	Fype: Soil	Rest	ult Type: Pr	imary Result	
Lab Sample Name:	238234003	Sample I	Date: 1	0/1/2009 10:40:00 A	M Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1-Methyl naphthalene	90120	17.5	17.5	5.24 ug/kg	U	U		
2-Methylnaphthalene	91576	17.5	17.5	3.5 ug/kg	U	U		
Acenaphthene	83329	17.5	17.5	5.84 ug/kg	U	U		
Acenaphthylene	208968	17.5	17.5	5.24 ug/kg	U	U		
Anthracene	120127	17.5	17.5	3.5 ug/kg	U	U		
Benzo(a)anthracene	56553	17.5	17.5	5.24 ug/kg	U	U		
Benzo(a)pyrene	50328	17.5	17.5	5.24 ug/kg	U	U		
Benzo(b)fluoranthene	205992	17.5	17.5	5.24 ug/kg	U	U		
Benzo(ghi)perylene	191242	17.5	17.5	5.24 ug/kg	U	U		
Benzo(k)fluoranthene	207089	17.5	17.5	5.24 ug/kg	U	U		
bis(2-ethylhexyl)phthalate	117817	14.7	17.5	5.77 ug/kg	J	J		
Butyl benzyl phthalate	85687	17.5	17.5	5.24 ug/kg	U	U		
Chrysene	218019	17.5	17.5	5.24 ug/kg	U	U		
Dibenzo(a,h)anthracene	53703	17.5	17.5	5.24 ug/kg	U	U		
Diethylphthalate	84662	17.5	17.5	5.24 ug/kg	U	U		
Dimethylphthalate	131113	17.5	17.5	5.24 ug/kg	U	U		
Di-n-butylphthalate	84742	17.5	17.5	5.24 ug/kg	U	U		
Di-n-octyl-phthalate	117840	17.5	17.5	5.24 ug/kg	U	U		
Fluoranthene	206440	17.5	17.5	5.24 ug/kg	U	U		
Fluorene	86737	17.5	17.5	5.24 ug/kg	U	U		
Indeno(1,2,3-cd)pyrene	193395	17.5	17.5	5.24 ug/kg	U	U		
Naphthalene	91203	17.5	17.5	5.24 ug/kg	U	U		
n-Nitrosodimethylamine	62759	17.5	17.5	3.5 ug/kg	U	U		
Phenanthrene	85018	17.5	17.5	5.24 ug/kg	U	U		
Pyrene	129000	17.5	17.5	5.49 ug/kg	U	U		

Sample Name	HZBS0080AS00	1	Matrix '	Fype: Soil	Rest	ult Type: Pr	imary Result	
Lab Sample Name:	238234004	Sample l	Date: 1	0/1/2009 2:35:00 PM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1-Methyl naphthalene	90120	17.1	17.1	5.14 ug/kg	U	U		
2-Methylnaphthalene	91576	17.1	17.1	3.43 ug/kg	U	U		
Acenaphthene	83329	17.1	17.1	5.72 ug/kg	U	U		
Acenaphthylene	208968	17.1	17.1	5.14 ug/kg	U	U		
Anthracene	120127	17.1	17.1	3.43 ug/kg	U	U		
Benzo(a)anthracene	56553	17.1	17.1	5.14 ug/kg	U	U		
Benzo(a)pyrene	50328	17.1	17.1	5.14 ug/kg	U	U		
Benzo(b)fluoranthene	205992	17.1	17.1	5.14 ug/kg	U	U		
Benzo(ghi)perylene	191242	17.1	17.1	5.14 ug/kg	U	U		
Benzo(k)fluoranthene	207089	17.1	17.1	5.14 ug/kg	U	U		
bis(2-ethylhexyl)phthalate	117817	11.8	17.1	5.65 ug/kg	J	J		
Butyl benzyl phthalate	85687	17.1	17.1	5.14 ug/kg	U	U		
Chrysene	218019	17.1	17.1	5.14 ug/kg	U	U		
Dibenzo(a,h)anthracene	53703	17.1	17.1	5.14 ug/kg	U	U		
Diethylphthalate	84662	17.1	17.1	5.14 ug/kg	U	U		
Dimethylphthalate	131113	17.1	17.1	5.14 ug/kg	U	U		
Di-n-butylphthalate	84742	17.1	17.1	5.14 ug/kg	U	U		
Di-n-octyl-phthalate	117840	17.1	17.1	5.14 ug/kg	U	U		
Fluoranthene	206440	17.1	17.1	5.14 ug/kg	U	U		
Fluorene	86737	17.1	17.1	5.14 ug/kg	U	U		
Indeno(1,2,3-cd)pyrene	193395	17.1	17.1	5.14 ug/kg	U	U		
Naphthalene	91203	17.1	17.1	5.14 ug/kg	U	U		
n-Nitrosodimethylamine	62759	17.1	17.1	3.43 ug/kg	U	U		
Phenanthrene	85018	17.1	17.1	5.14 ug/kg	U	U		
Pyrene	129000	17.1	17.1	5.38 ug/kg	U	U		

Sample Name	HZBS0080AS00	2	Matrix '	Fype: Soil	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238234005	Sample 1	Date: 1	0/1/2009 2:45:00 PM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
I-Methyl naphthalene	90120	17.4	17.4	5.23 ug/kg	U	U		
2-Methylnaphthalene	91576	17.4	17.4	3.49 ug/kg	U	U		
Acenaphthene	83329	17.4	17.4	5.83 ug/kg	U	U		
Acenaphthylene	208968	17.4	17.4	5.23 ug/kg	U	U		
Anthracene	120127	17.4	17.4	3.49 ug/kg	U	U		
Benzo(a)anthracene	56553	17.4	17.4	5.23 ug/kg	U	U		
Benzo(a)pyrene	50328	17.4	17.4	5.23 ug/kg	U	U		
Benzo(b)fluoranthene	205992	17.4	17.4	5.23 ug/kg	U	U		
Benzo(ghi)perylene	191242	17.4	17.4	5.23 ug/kg	U	U		
Benzo(k)fluoranthene	207089	17.4	17.4	5.23 ug/kg	U	U		
ois(2-ethylhexyl)phthalate	117817	12.8	17.4	5.76 ug/kg	J	J		
Butyl benzyl phthalate	85687	17.4	17.4	5.23 ug/kg	U	U		
Chrysene	218019	17.4	17.4	5.23 ug/kg	U	U		
Dibenzo(a,h)anthracene	53703	17.4	17.4	5.23 ug/kg	U	U		
Diethylphthalate	84662	17.4	17.4	5.23 ug/kg	U	U		
Dimethylphthalate	131113	17.4	17.4	5.23 ug/kg	U	U		
Di-n-butylphthalate	84742	17.4	17.4	5.23 ug/kg	U	U		
Di-n-octyl-phthalate	117840	17.4	17.4	5.23 ug/kg	U	U		
Fluoranthene	206440	17.4	17.4	5.23 ug/kg	U	U		
Fluorene	86737	17.4	17.4	5.23 ug/kg	U	U		
ndeno(1,2,3-cd)pyrene	193395	17.4	17.4	5.23 ug/kg	U	U		
Naphthalene	91203	17.4	17.4	5.23 ug/kg	U	U		
n-Nitrosodimethylamine	62759	17.4	17.4	3.49 ug/kg	U	U		
Phenanthrene	85018	17.4	17.4	5.23 ug/kg	U	U		
Pyrene	129000	17.4	17.4	5.48 ug/kg	U	U		

Sample Name	HZBS0082AS00	1	Matrix '	Fype: Soil	Rest	ult Type: Pr	imary Result		
Lab Sample Name:	238234006 Sample Date: 10/1/2009 8:30:0				AM Validation Level: V				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
1-Methyl naphthalene	90120	17.2	17.2	5.16 ug/kg	U	U			
2-Methylnaphthalene	91576	17.2	17.2	3.44 ug/kg	U	U			
Acenaphthene	83329	17.2	17.2	5.74 ug/kg	U	U			
Acenaphthylene	208968	17.2	17.2	5.16 ug/kg	U	U			
Anthracene	120127	17.2	17.2	3.44 ug/kg	U	U			
Benzo(a)anthracene	56553	17.2	17.2	5.16 ug/kg	U	U			
Benzo(a)pyrene	50328	17.2	17.2	5.16 ug/kg	U	U			
Benzo(b)fluoranthene	205992	17.2	17.2	5.16 ug/kg	U	U			
Benzo(ghi)perylene	191242	17.2	17.2	5.16 ug/kg	U	U			
Benzo(k)fluoranthene	207089	17.2	17.2	5.16 ug/kg	U	U			
bis(2-ethylhexyl)phthalate	117817	16.2	17.2	5.67 ug/kg	J	J			
Butyl benzyl phthalate	85687	17.2	17.2	5.16 ug/kg	U	U			
Chrysene	218019	17.2	17.2	5.16 ug/kg	U	U			
Dibenzo(a,h)anthracene	53703	17.2	17.2	5.16 ug/kg	U	U			
Diethylphthalate	84662	17.2	17.2	5.16 ug/kg	U	U			
Dimethylphthalate	131113	17.2	17.2	5.16 ug/kg	U	U			
Di-n-butylphthalate	84742	17.2	17.2	5.16 ug/kg	U	U			
Di-n-octyl-phthalate	117840	17.2	17.2	5.16 ug/kg	U	U			
Fluoranthene	206440	17.2	17.2	5.16 ug/kg	U	U			
Fluorene	86737	17.2	17.2	5.16 ug/kg	U	U			
Indeno(1,2,3-cd)pyrene	193395	17.2	17.2	5.16 ug/kg	U	U			
Naphthalene	91203	17.2	17.2	5.16 ug/kg	U	U			
n-Nitrosodimethylamine	62759	17.2	17.2	3.44 ug/kg	U	U			
Phenanthrene	85018	17.2	17.2	5.16 ug/kg	U	U			
Pyrene	129000	17.2	17.2	5.4 ug/kg	U	U			

Sample Name	HZBS0082AS00	)2	Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result	
Lab Sample Name:	238234007	Sample l	Date: 1	0/1/2009 9:05:00 AM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
I-Methyl naphthalene	90120	17.4	17.4	5.22 ug/kg	U	U		
2-Methylnaphthalene	91576	17.4	17.4	3.48 ug/kg	U	U		
Acenaphthene	83329	17.4	17.4	5.81 ug/kg	U	U		
Acenaphthylene	208968	17.4	17.4	5.22 ug/kg	U	U		
Anthracene	120127	17.4	17.4	3.48 ug/kg	U	U		
Benzo(a)anthracene	56553	17.4	17.4	5.22 ug/kg	U	U		
Benzo(a)pyrene	50328	17.4	17.4	5.22 ug/kg	U	U		
Benzo(b)fluoranthene	205992	17.4	17.4	5.22 ug/kg	U	U		
Benzo(ghi)perylene	191242	17.4	17.4	5.22 ug/kg	U	U		
Benzo(k)fluoranthene	207089	17.4	17.4	5.22 ug/kg	U	U		
ois(2-ethylhexyl)phthalate	117817	10.9	17.4	5.74 ug/kg	J	J		
Butyl benzyl phthalate	85687	17.4	17.4	5.22 ug/kg	U	U		
Chrysene	218019	17.4	17.4	5.22 ug/kg	U	U		
Dibenzo(a,h)anthracene	53703	17.4	17.4	5.22 ug/kg	U	U		
Diethylphthalate	84662	17.4	17.4	5.22 ug/kg	U	U		
Dimethylphthalate	131113	17.4	17.4	5.22 ug/kg	U	U		
Di-n-butylphthalate	84742	17.4	17.4	5.22 ug/kg	U	U		
Di-n-octyl-phthalate	117840	17.4	17.4	5.22 ug/kg	U	U		
Fluoranthene	206440	17.4	17.4	5.22 ug/kg	U	U		
Fluorene	86737	17.4	17.4	5.22 ug/kg	U	U		
ndeno(1,2,3-cd)pyrene	193395	17.4	17.4	5.22 ug/kg	U	U		
Naphthalene	91203	17.4	17.4	5.22 ug/kg	U	U		
n-Nitrosodimethylamine	62759	17.4	17.4	3.48 ug/kg	U	U		
Phenanthrene	85018	17.4	17.4	5.22 ug/kg	U	U		
Pyrene	129000	17.4	17.4	5.46 ug/kg	U	U		

Sample Name	HZBS0084AS00	1	Matrix '	Type: Soil	Rest	ult Type: Pr	imary Result	
Lab Sample Name:	238234008	Sample I	Date: 1	0/1/2009 7:50:00 AM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1-Methyl naphthalene	90120	16.7	16.7	5.02 ug/kg	U	U		
2-Methylnaphthalene	91576	16.7	16.7	3.34 ug/kg	U	U		
Acenaphthene	83329	16.7	16.7	5.58 ug/kg	U	U		
Acenaphthylene	208968	16.7	16.7	5.02 ug/kg	U	U		
Anthracene	120127	16.7	16.7	3.34 ug/kg	U	U		
Benzo(a)anthracene	56553	16.7	16.7	5.02 ug/kg	U	U		
Benzo(a)pyrene	50328	16.7	16.7	5.02 ug/kg	U	U		
Benzo(b)fluoranthene	205992	16.7	16.7	5.02 ug/kg	U	U		
Benzo(ghi)perylene	191242	16.7	16.7	5.02 ug/kg	U	U		
Benzo(k)fluoranthene	207089	16.7	16.7	5.02 ug/kg	U	U		
bis(2-ethylhexyl)phthalate	117817	23.4	16.7	5.52 ug/kg				
Butyl benzyl phthalate	85687	16.7	16.7	5.02 ug/kg	U	U		
Chrysene	218019	16.7	16.7	5.02 ug/kg	U	U		
Dibenzo(a,h)anthracene	53703	16.7	16.7	5.02 ug/kg	U	U		
Diethylphthalate	84662	16.7	16.7	5.02 ug/kg	U	U		
Dimethylphthalate	131113	16.7	16.7	5.02 ug/kg	U	U		
Di-n-butylphthalate	84742	16.7	16.7	5.02 ug/kg	U	U		
Di-n-octyl-phthalate	117840	16.7	16.7	5.02 ug/kg	U	U		
Fluoranthene	206440	16.7	16.7	5.02 ug/kg	U	U		
Fluorene	86737	16.7	16.7	5.02 ug/kg	U	U		
Indeno(1,2,3-cd)pyrene	193395	16.7	16.7	5.02 ug/kg	U	U		
Naphthalene	91203	16.7	16.7	5.02 ug/kg	U	U		
n-Nitrosodimethylamine	62759	16.7	16.7	3.34 ug/kg	U	U		
Phenanthrene	85018	16.7	16.7	5.02 ug/kg	U	U		
Pyrene	129000	16.7	16.7	5.25 ug/kg	U	U		

Sample Name	HZBS0084AS00	2	Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234009	0/1/2009 8:15:00 AM	009 8:15:00 AM <b>Validation Level:</b> V				
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
I-Methyl naphthalene	90120	17.5	17.5	5.25 ug/kg	U	U	
2-Methylnaphthalene	91576	17.5	17.5	3.5 ug/kg	U	U	
Acenaphthene	83329	17.5	17.5	5.84 ug/kg	U	U	
Acenaphthylene	208968	17.5	17.5	5.25 ug/kg	U	U	
Anthracene	120127	17.5	17.5	3.5 ug/kg	U	U	
Benzo(a)anthracene	56553	17.5	17.5	5.25 ug/kg	U	U	
Benzo(a)pyrene	50328	17.5	17.5	5.25 ug/kg	U	U	
Benzo(b)fluoranthene	205992	17.5	17.5	5.25 ug/kg	U	U	
Benzo(ghi)perylene	191242	17.5	17.5	5.25 ug/kg	U	U	
Benzo(k)fluoranthene	207089	17.5	17.5	5.25 ug/kg	U	U	
ois(2-ethylhexyl)phthalate	117817	11.8	17.5	5.77 ug/kg	J	J	
Butyl benzyl phthalate	85687	17.5	17.5	5.25 ug/kg	U	U	
Chrysene	218019	17.5	17.5	5.25 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	17.5	17.5	5.25 ug/kg	U	U	
Diethylphthalate	84662	17.5	17.5	5.25 ug/kg	U	U	
Dimethylphthalate	131113	17.5	17.5	5.25 ug/kg	U	U	
Di-n-butylphthalate	84742	17.5	17.5	5.25 ug/kg	U	U	
Di-n-octyl-phthalate	117840	17.5	17.5	5.25 ug/kg	U	U	
Fluoranthene	206440	17.5	17.5	5.25 ug/kg	U	U	
Fluorene	86737	17.5	17.5	5.25 ug/kg	U	U	
indeno(1,2,3-cd)pyrene	193395	17.5	17.5	5.25 ug/kg	U	U	
Naphthalene	91203	17.5	17.5	5.25 ug/kg	U	U	
n-Nitrosodimethylamine	62759	17.5	17.5	3.5 ug/kg	U	U	
Phenanthrene	85018	17.5	17.5	5.25 ug/kg	U	U	
Pyrene	129000	17.5	17.5	5.49 ug/kg	U	U	

Sample Name	HZBS0123AS001	l	Matrix '	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234010	Sample	Date: 1	0/1/2009 1:15:00 PM	v	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
I-Methyl naphthalene	90120	16.8	16.8	5.05 ug/kg	U	U	
2-Methylnaphthalene	91576	16.8	16.8	3.37 ug/kg	U	U	
Acenaphthene	83329	16.8	16.8	5.62 ug/kg	U	U	
Acenaphthylene	208968	16.8	16.8	5.05 ug/kg	U	U	
Anthracene	120127	16.8	16.8	3.37 ug/kg	U	U	
Benzo(a)anthracene	56553	16.8	16.8	5.05 ug/kg	U	U	
Benzo(a)pyrene	50328	16.8	16.8	5.05 ug/kg	U	U	
Benzo(b)fluoranthene	205992	16.8	16.8	5.05 ug/kg	U	U	
Benzo(ghi)perylene	191242	16.8	16.8	5.05 ug/kg	U	U	
Benzo(k)fluoranthene	207089	16.8	16.8	5.05 ug/kg	U	U	
ois(2-ethylhexyl)phthalate	117817	16.6	16.8	5.55 ug/kg	J	J	
Butyl benzyl phthalate	85687	6.39	16.8	5.05 ug/kg	J	J	
Chrysene	218019	16.8	16.8	5.05 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	16.8	16.8	5.05 ug/kg	U	U	
Diethylphthalate	84662	16.8	16.8	5.05 ug/kg	U	U	
Dimethylphthalate	131113	16.8	16.8	5.05 ug/kg	U	U	
Di-n-butylphthalate	84742	16.8	16.8	5.05 ug/kg	U	U	
Di-n-octyl-phthalate	117840	16.8	16.8	5.05 ug/kg	U	U	
Fluoranthene	206440	16.8	16.8	5.05 ug/kg	U	U	
Fluorene	86737	16.8	16.8	5.05 ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	16.8	16.8	5.05 ug/kg	U	U	
Naphthalene	91203	16.8	16.8	5.05 ug/kg	U	U	
n-Nitrosodimethylamine	62759	16.8	16.8	3.37 ug/kg	U	U	
Phenanthrene	85018	16.8	16.8	5.05 ug/kg	U	U	
Pyrene	129000	16.8	16.8	5.29 ug/kg	U	U	

Sample Name	HZBS0123AS0	02	Matrix '	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234011	Sample I	Date: 1	0/1/2009 1:30:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methyl naphthalene	90120	17.1	17.1	5.14 ug/kg	U	U	
2-Methylnaphthalene	91576	17.1	17.1	3.43 ug/kg	U	U	
Acenaphthene	83329	17.1	17.1	5.73 ug/kg	U	U	
Acenaphthylene	208968	17.1	17.1	5.14 ug/kg	U	U	
Anthracene	120127	17.1	17.1	3.43 ug/kg	U	U	
Benzo(a)anthracene	56553	17.1	17.1	5.14 ug/kg	U	U	
Benzo(a)pyrene	50328	17.1	17.1	5.14 ug/kg	U	U	
Benzo(b)fluoranthene	205992	17.1	17.1	5.14 ug/kg	U	U	
Benzo(ghi)perylene	191242	17.1	17.1	5.14 ug/kg	U	U	
Benzo(k)fluoranthene	207089	17.1	17.1	5.14 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	12.6	17.1	5.66 ug/kg	J	J	
Butyl benzyl phthalate	85687	17.1	17.1	5.14 ug/kg	U	U	
Chrysene	218019	17.1	17.1	5.14 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	17.1	17.1	5.14 ug/kg	U	U	
Diethylphthalate	84662	17.1	17.1	5.14 ug/kg	U	U	
Dimethylphthalate	131113	17.1	17.1	5.14 ug/kg	U	U	
Di-n-butylphthalate	84742	17.1	17.1	5.14 ug/kg	U	U	
Di-n-octyl-phthalate	117840	17.1	17.1	5.14 ug/kg	U	U	
Fluoranthene	206440	17.1	17.1	5.14 ug/kg	U	U	
Fluorene	86737	17.1	17.1	5.14 ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	17.1	17.1	5.14 ug/kg	U	U	
Naphthalene	91203	17.1	17.1	5.14 ug/kg	U	U	
n-Nitrosodimethylamine	62759	17.1	17.1	3.43 ug/kg	U	U	
Phenanthrene	85018	17.1	17.1	5.14 ug/kg	U	U	
Pyrene	129000	17.1	17.1	5.38 ug/kg	U	U	

Sample Name	HZBS0124AS0	01	Matrix [	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234012	Sample I	Date: 1	0/1/2009 11:00:00 A	M V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methyl naphthalene	90120	16.9	16.9	5.07 ug/kg	U	U	
2-Methylnaphthalene	91576	16.9	16.9	3.38 ug/kg	U	U	
Acenaphthene	83329	16.9	16.9	5.65 ug/kg	U	U	
Acenaphthylene	208968	16.9	16.9	5.07 ug/kg	U	U	
Anthracene	120127	16.9	16.9	3.38 ug/kg	U	U	
Benzo(a)anthracene	56553	16.9	16.9	5.07 ug/kg	U	U	
Benzo(a)pyrene	50328	16.9	16.9	5.07 ug/kg	U	U	
Benzo(b)fluoranthene	205992	16.9	16.9	5.07 ug/kg	U	U	
Benzo(ghi)perylene	191242	16.9	16.9	5.07 ug/kg	U	U	
Benzo(k)fluoranthene	207089	16.9	16.9	5.07 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	9.77	16.9	5.58 ug/kg	J	J	
Butyl benzyl phthalate	85687	16.9	16.9	5.07 ug/kg	U	U	
Chrysene	218019	16.9	16.9	5.07 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	16.9	16.9	5.07 ug/kg	U	U	
Diethylphthalate	84662	16.9	16.9	5.07 ug/kg	U	U	
Dimethylphthalate	131113	16.9	16.9	5.07 ug/kg	U	U	
Di-n-butylphthalate	84742	16.9	16.9	5.07 ug/kg	U	U	
Di-n-octyl-phthalate	117840	16.9	16.9	5.07 ug/kg	U	U	
Fluoranthene	206440	16.9	16.9	5.07 ug/kg	U	U	
Fluorene	86737	16.9	16.9	5.07 ug/kg	U	U	
ndeno(1,2,3-cd)pyrene	193395	16.9	16.9	5.07 ug/kg	U	U	
Naphthalene	91203	16.9	16.9	5.07 ug/kg	U	U	
n-Nitrosodimethylamine	62759	16.9	16.9	3.38 ug/kg	U	U	
Phenanthrene	85018	16.9	16.9	5.07 ug/kg	U	U	
Pyrene	129000	16.9	16.9	5.31 ug/kg	U	U	

Sample Name	HZBS0124AS00	)2	Matrix ]	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234013	Sample I	Date: 1	0/1/2009 12:30:00 PM	M N	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
l-Methyl naphthalene	90120	17.3	17.3	5.2 ug/kg	U	U	
2-Methylnaphthalene	91576	17.3	17.3	3.47 ug/kg	U	U	
Acenaphthene	83329	17.3	17.3	5.79 ug/kg	U	U	
Acenaphthylene	208968	17.3	17.3	5.2 ug/kg	U	U	
Anthracene	120127	17.3	17.3	3.47 ug/kg	U	U	
Benzo(a)anthracene	56553	17.3	17.3	5.2 ug/kg	U	U	
Benzo(a)pyrene	50328	17.3	17.3	5.2 ug/kg	U	U	
Benzo(b)fluoranthene	205992	17.3	17.3	5.2 ug/kg	U	U	
Benzo(ghi)perylene	191242	17.3	17.3	5.2 ug/kg	U	U	
Benzo(k)fluoranthene	207089	17.3	17.3	5.2 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	11.9	17.3	5.72 ug/kg	J	J	
Butyl benzyl phthalate	85687	17.3	17.3	5.2 ug/kg	U	U	
Chrysene	218019	17.3	17.3	5.2 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	17.3	17.3	5.2 ug/kg	U	U	
Diethylphthalate	84662	17.3	17.3	5.2 ug/kg	U	U	
Dimethylphthalate	131113	17.3	17.3	5.2 ug/kg	U	U	
Di-n-butylphthalate	84742	17.3	17.3	5.2 ug/kg	U	U	
Di-n-octyl-phthalate	117840	17.3	17.3	5.2 ug/kg	U	U	
Fluoranthene	206440	17.3	17.3	5.2 ug/kg	U	U	
Fluorene	86737	17.3	17.3	5.2 ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	17.3	17.3	5.2 ug/kg	U	U	
Naphthalene	91203	17.3	17.3	5.2 ug/kg	U	U	
n-Nitrosodimethylamine	62759	17.3	17.3	3.47 ug/kg	U	U	
Phenanthrene	85018	17.3	17.3	5.2 ug/kg	U	U	
Pyrene	129000	17.3	17.3	5.44 ug/kg	U	U	

Sample Name	HZBS0175S001	Ν	Matrix '	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234014	Sample D	ate: 1	0/1/2009 1:50:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methyl naphthalene	90120	16.9	16.9	5.06 ug/kg	U	U	
2-Methylnaphthalene	91576	16.9	16.9	3.37 ug/kg	U	U	
Acenaphthene	83329	16.9	16.9	5.63 ug/kg	U	U	
Acenaphthylene	208968	16.9	16.9	5.06 ug/kg	U	U	
Anthracene	120127	16.9	16.9	3.37 ug/kg	U	U	
Benzo(a)anthracene	56553	16.9	16.9	5.06 ug/kg	U	U	
Benzo(a)pyrene	50328	16.9	16.9	5.06 ug/kg	U	U	
Benzo(b)fluoranthene	205992	16.9	16.9	5.06 ug/kg	U	U	
Benzo(ghi)perylene	191242	16.9	16.9	5.06 ug/kg	U	U	
Benzo(k)fluoranthene	207089	16.9	16.9	5.06 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	12.9	16.9	5.56 ug/kg	J	J	
Butyl benzyl phthalate	85687	16.9	16.9	5.06 ug/kg	U	U	
Chrysene	218019	16.9	16.9	5.06 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	16.9	16.9	5.06 ug/kg	U	U	
Diethylphthalate	84662	16.9	16.9	5.06 ug/kg	U	U	
Dimethylphthalate	131113	16.9	16.9	5.06 ug/kg	U	U	
Di-n-butylphthalate	84742	16.9	16.9	5.06 ug/kg	U	U	
Di-n-octyl-phthalate	117840	16.9	16.9	5.06 ug/kg	U	U	
Fluoranthene	206440	16.9	16.9	5.06 ug/kg	U	U	
Fluorene	86737	16.9	16.9	5.06 ug/kg	U	U	
ndeno(1,2,3-cd)pyrene	193395	16.9	16.9	5.06 ug/kg	U	U	
Naphthalene	91203	16.9	16.9	5.06 ug/kg	U	U	
n-Nitrosodimethylamine	62759	16.9	16.9	3.37 ug/kg	U	U	
Phenanthrene	85018	16.9	16.9	5.06 ug/kg	U	U	
Pyrene	129000	16.9	16.9	5.29 ug/kg	U	U	

Sample Name	HZBS0175S002	]	Matrix '	<b>Fype:</b> Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234015	Sample I	Date: 1	0/1/2009 2:10:00 PM	v	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methyl naphthalene	90120	17	17	5.11 ug/kg	U	U	
2-Methylnaphthalene	91576	17	17	3.41 ug/kg	U	U	
Acenaphthene	83329	17	17	5.69 ug/kg	U	U	
Acenaphthylene	208968	17	17	5.11 ug/kg	U	U	
Anthracene	120127	17	17	3.41 ug/kg	U	U	
Benzo(a)anthracene	56553	17	17	5.11 ug/kg	U	U	
Benzo(a)pyrene	50328	17	17	5.11 ug/kg	U	U	
Benzo(b)fluoranthene	205992	17	17	5.11 ug/kg	U	U	
Benzo(ghi)perylene	191242	17	17	5.11 ug/kg	U	U	
Benzo(k)fluoranthene	207089	17	17	5.11 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	6.18	17	5.63 ug/kg	J	J	
Butyl benzyl phthalate	85687	17	17	5.11 ug/kg	U	U	
Chrysene	218019	17	17	5.11 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	17	17	5.11 ug/kg	U	U	
Diethylphthalate	84662	17	17	5.11 ug/kg	U	U	
Dimethylphthalate	131113	17	17	5.11 ug/kg	U	U	
Di-n-butylphthalate	84742	17	17	5.11 ug/kg	U	U	
Di-n-octyl-phthalate	117840	17	17	5.11 ug/kg	U	U	
Fluoranthene	206440	17	17	5.11 ug/kg	U	U	
Fluorene	86737	17	17	5.11 ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	17	17	5.11 ug/kg	U	U	
Naphthalene	91203	17	17	5.11 ug/kg	U	U	
n-Nitrosodimethylamine	62759	17	17	3.41 ug/kg	U	U	
Phenanthrene	85018	17	17	5.11 ug/kg	U	U	
Pyrene	129000	17	17	5.35 ug/kg	U	U	

Sample Name	HZBS0177S001	I	Matrix '	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238234016	Sample D	ate: 1	0/1/2009 3:00:00 PM	v	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methyl naphthalene	90120	16.8	16.8	5.05 ug/kg	U	U	
2-Methylnaphthalene	91576	16.8	16.8	3.37 ug/kg	U	U	
Acenaphthene	83329	16.8	16.8	5.62 ug/kg	U	U	
Acenaphthylene	208968	16.8	16.8	5.05 ug/kg	U	U	
Anthracene	120127	16.8	16.8	3.37 ug/kg	U	U	
Benzo(a)anthracene	56553	16.8	16.8	5.05 ug/kg	U	U	
Benzo(a)pyrene	50328	16.8	16.8	5.05 ug/kg	U	U	
Benzo(b)fluoranthene	205992	16.8	16.8	5.05 ug/kg	U	U	
Benzo(ghi)perylene	191242	16.8	16.8	5.05 ug/kg	U	U	
Benzo(k)fluoranthene	207089	16.8	16.8	5.05 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	19.4	16.8	5.56 ug/kg			
Butyl benzyl phthalate	85687	16.8	16.8	5.05 ug/kg	U	U	
Chrysene	218019	16.8	16.8	5.05 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	16.8	16.8	5.05 ug/kg	U	U	
Diethylphthalate	84662	16.8	16.8	5.05 ug/kg	U	U	
Dimethylphthalate	131113	16.8	16.8	5.05 ug/kg	U	U	
Di-n-butylphthalate	84742	16.8	16.8	5.05 ug/kg	U	U	
Di-n-octyl-phthalate	117840	16.8	16.8	5.05 ug/kg	U	U	
Fluoranthene	206440	16.8	16.8	5.05 ug/kg	U	U	
Fluorene	86737	16.8	16.8	5.05 ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	16.8	16.8	5.05 ug/kg	U	U	
Naphthalene	91203	16.8	16.8	5.05 ug/kg	U	U	
n-Nitrosodimethylamine	62759	16.8	16.8	3.37 ug/kg	U	U	
Phenanthrene	85018	16.8	16.8	5.05 ug/kg	U	U	
Pyrene	129000	16.8	16.8	5.29 ug/kg	U	U	

Sample Name	HZBS0177S002	Ν	latrix '	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234017	Sample D	ate: 1	0/1/2009 3:15:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methyl naphthalene	90120	18.7	18.7	5.6 ug/kg	U	U	
2-Methylnaphthalene	91576	18.7	18.7	3.73 ug/kg	U	U	
Acenaphthene	83329	18.7	18.7	6.23 ug/kg	U	U	
Acenaphthylene	208968	18.7	18.7	5.6 ug/kg	U	U	
Anthracene	120127	18.7	18.7	3.73 ug/kg	U	U	
Benzo(a)anthracene	56553	18.7	18.7	5.6 ug/kg	U	U	
Benzo(a)pyrene	50328	18.7	18.7	5.6 ug/kg	U	U	
Benzo(b)fluoranthene	205992	18.7	18.7	5.6 ug/kg	U	U	
Benzo(ghi)perylene	191242	18.7	18.7	5.6 ug/kg	U	U	
Benzo(k)fluoranthene	207089	18.7	18.7	5.6 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	11.1	18.7	6.16 ug/kg	J	J	
Butyl benzyl phthalate	85687	18.7	18.7	5.6 ug/kg	U	U	
Chrysene	218019	18.7	18.7	5.6 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	18.7	18.7	5.6 ug/kg	U	U	
Diethylphthalate	84662	18.7	18.7	5.6 ug/kg	U	U	
Dimethylphthalate	131113	18.7	18.7	5.6 ug/kg	U	U	
Di-n-butylphthalate	84742	18.7	18.7	5.6 ug/kg	U	U	
Di-n-octyl-phthalate	117840	18.7	18.7	5.6 ug/kg	U	U	
Fluoranthene	206440	18.7	18.7	5.6 ug/kg	U	U	
Fluorene	86737	18.7	18.7	5.6 ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	18.7	18.7	5.6 ug/kg	U	U	
Naphthalene	91203	18.7	18.7	5.6 ug/kg	U	U	
n-Nitrosodimethylamine	62759	18.7	18.7	3.73 ug/kg	U	U	
Phenanthrene	85018	18.7	18.7	5.6 ug/kg	U	U	
Pyrene	129000	18.7	18.7	5.86 ug/kg	U	U	

Sample Name	HZBS0180S001	N	latrix '	Type: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234018	Sample Da	ate: 1	0/1/2009 9:30:00 AM	Г <b>Т</b>	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methyl naphthalene	90120	17	17	5.09 ug/kg	U	U	
2-Methylnaphthalene	91576	17	17	3.39 ug/kg	U	U	
Acenaphthene	83329	17	17	5.66 ug/kg	U	U	
Acenaphthylene	208968	17	17	5.09 ug/kg	U	U	
Anthracene	120127	17	17	3.39 ug/kg	U	U	
Benzo(a)anthracene	56553	17	17	5.09 ug/kg	U	U	
Benzo(a)pyrene	50328	17	17	5.09 ug/kg	U	U	
Benzo(b)fluoranthene	205992	17	17	5.09 ug/kg	U	U	
Benzo(ghi)perylene	191242	17	17	5.09 ug/kg	U	U	
Benzo(k)fluoranthene	207089	17	17	5.09 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	12.8	17	5.59 ug/kg	J	J	
Butyl benzyl phthalate	85687	17	17	5.09 ug/kg	U	U	
Chrysene	218019	17	17	5.09 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	17	17	5.09 ug/kg	U	U	
Diethylphthalate	84662	17	17	5.09 ug/kg	U	U	
Dimethylphthalate	131113	17	17	5.09 ug/kg	U	U	
Di-n-butylphthalate	84742	6.39	17	5.09 ug/kg	J	J	
Di-n-octyl-phthalate	117840	17	17	5.09 ug/kg	U	U	
Fluoranthene	206440	17	17	5.09 ug/kg	U	U	
Fluorene	86737	17	17	5.09 ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	17	17	5.09 ug/kg	U	U	
Naphthalene	91203	17	17	5.09 ug/kg	U	U	
n-Nitrosodimethylamine	62759	17	17	3.39 ug/kg	U	U	
Phenanthrene	85018	17	17	5.09 ug/kg	U	U	
Pyrene	129000	17	17	5.32 ug/kg	U	U	

Sample Name	HZBS0180S002	Γ	Matrix '	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238234019	Sample D	ate: 1	0/1/2009 10:00:00 Al	м у	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methyl naphthalene	90120	17.3	17.3	5.19 ug/kg	U	U	
2-Methylnaphthalene	91576	17.3	17.3	3.46 ug/kg	U	U	
Acenaphthene	83329	17.3	17.3	5.77 ug/kg	U	U	
Acenaphthylene	208968	17.3	17.3	5.19 ug/kg	U	U	
Anthracene	120127	17.3	17.3	3.46 ug/kg	U	U	
Benzo(a)anthracene	56553	17.3	17.3	5.19 ug/kg	U	U	
Benzo(a)pyrene	50328	17.3	17.3	5.19 ug/kg	U	U	
Benzo(b)fluoranthene	205992	17.3	17.3	5.19 ug/kg	U	U	
Benzo(ghi)perylene	191242	17.3	17.3	5.19 ug/kg	U	U	
Benzo(k)fluoranthene	207089	17.3	17.3	5.19 ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	7.67	17.3	5.7 ug/kg	J	J	
Butyl benzyl phthalate	85687	17.3	17.3	5.19 ug/kg	U	U	
Chrysene	218019	17.3	17.3	5.19 ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	17.3	17.3	5.19 ug/kg	U	U	
Diethylphthalate	84662	17.3	17.3	5.19 ug/kg	U	U	
Dimethylphthalate	131113	17.3	17.3	5.19 ug/kg	U	U	
Di-n-butylphthalate	84742	17.3	17.3	5.19 ug/kg	U	U	
Di-n-octyl-phthalate	117840	17.3	17.3	5.19 ug/kg	U	U	
Fluoranthene	206440	17.3	17.3	5.19 ug/kg	U	U	
Fluorene	86737	17.3	17.3	5.19 ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	17.3	17.3	5.19 ug/kg	U	U	
Naphthalene	91203	17.3	17.3	5.19 ug/kg	U	U	
n-Nitrosodimethylamine	62759	17.3	17.3	3.46 ug/kg	U	U	
Phenanthrene	85018	17.3	17.3	5.19 ug/kg	U	U	
Pyrene	129000	17.3	17.3	5.43 ug/kg	U	U	

# Chain of Custody and Supporting Documentation

1	( BUEINE		N N N N		CHAIN OF CUSIONI RECORD	ļ	5	ç		COC #:			MWHAG20091005_00
													Page: 1 of 1
Customer	<b>Customer Information</b>	Project Information	ntion			Projec	t Info	Project Information		The second second second second second			
Site:	SSFL	<b>Client Name:</b>	Boeing			Collector:	<u> </u>	A. Goldenberg	berg		Boein	Boeing PM:	
Company: MWH	HWM	Sampling Event:	-	pling, Au	ISRA Sampling, August 2009	Contact #:	t #:						
Report to:	Sarah Von Raesfeld	Project Number:	1891614.05462	5462					Reques	Requested Analyses			Instructions/TAT
Address:	2121 N. California Blvd	Project Manager:	: Alex Fischl										l egend.
	Suite 600	PM Phone #:	(925) 627-4627	4627							_		Numerical values for
	Walnut Creek	Field Contact:	Brian Martasin	asin									analyses equate to turn around time in days
	CA	Field Contact #:	(323) 304-4969	4969									H- Hold
	94596	Lab Name:	GEL Laboratories, LLC	ratories,	LLC								EH - Extract/Extrude & Hold
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Jackie Trudell	dell									
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road	nge Road									Note: Values in the
			Charleston, SC 29407	1, SC 294	407								bellow are Turn Around Times
4		Lab Phone:	(843) 769-7388	7388									
Sample Name	Ð	Matrix	Date T	Time	No. of Containers	ure Soil	2 - Soil						Comments
HZET0237S001	001 Soil	10	10/5/2009 1	13:55	1	3 2	6						
HZET0238S001	001 Sail	10	10/5/2009 1	14:00	1	3 2	e						
HZET0239S001	001 Soil		10/5/2009 1	14:18	1	3 2	ю						
HZET0240S001	001 Soil		10/5/2009 1	14:10	1	3 2	3						
HZET0241S001	001 Soil		10/5/2009 1	14:05	+	3 2	3						

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Br C	10/5/09	Rill dule	10/6/09				
Company: MWH	Time: / 5 2 5	Company: Gec	Time: J930	Company:	Time:	Company:	Time:
Comments:					Geot	Geotracker EDF	
					Data	Data Validation Package 🗸 Level IV	vel IV

5 85857

GEL Laboratories LLC

## SAMPLE RECEIPT & REVIEW FORM

	nt: SSFL				SDG/ARCOC/Work Order: 2383563			
Rece	ived By: Rick Albee				Date Received: 10/6/08			
Susp	ected Hazard Information	Yes	No	*If Co the R	Counts $> x2$ area background on samples not marked "radioactive", contact Radiation Safety Group of further investigation.			
	/Samples marked as radioactive?		ζ	Maxi	eximum Counts Observed*: 40 Cfm			
	sified Radioactive II or III by RSO?		V					
	/Samples marked containing PCBs?		5					
	bed as a DOT Hazardous?		5	Haza	rd Class Shipped: UN#:			
Samp	bles identified as Foreign Soil?		V					
	Sample Receipt Criteria	Yes	NA	°N	Comments/Qualifiers (Required for Non-Conforming Items)			
1	Shipping containers received intact and sealed?	٢			Circle Applicable: seals broken damaged container leaking containc: other (describe)			
2	Samples requiring cold preservation within $0 \le 6$ deg. C?	2			Preservation Method: (ce bags) blue ice dry ice none other (describe)			
3	Chain of custody documents included with shipment?	1						
4	Sample containers intact and sealed?	1			Circle Applicable: seals broken carnaged container leaking container other (describe)			
5	Samples requiring chemical preservation at proper pH?		1		Sample ID's, containers affected and observed pH: f Preservation added, Lot#:			
6	VOA vials free of headspace (defined as < 6mm bubble)?		~	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?	~			d's and tests affected:			
9	Sample ID's on COC match ID's on bottles?	~		S	Sample ID's and containers affected:			
10	Date & time on COC match date & time on bottles?	5		S	Sample ID's affected:			
11	Number of containers received match number indicated on COC?	5		S	Sample ID's affected:			
12	COC form is properly signed in relinquished/received sections?	~						
Comn	Felex 9457 3163	078	24					

Date 10/6/09

J

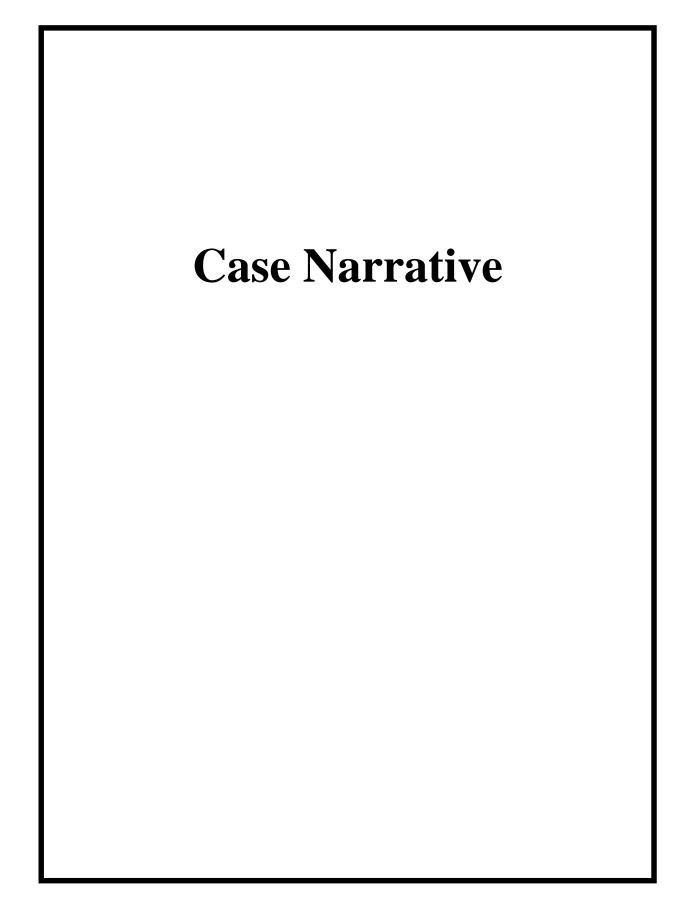
#### LABORATORY TASK ORDER (LTO) FORM

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 S	ampling, August 2009	Start:	8/24/2009	End:	9/30/2009
LTO DATE:			LTC	NUMBER:		
Consultant Name:		MWH	Contract Laboratory:		GEL	
	2121	N. California Blvd. Ste. 600		20	040 Savage F	Rd.
	W	alnut Creek, CA 94596		Cha	rleston, SC 2	9407
		· · · · · · · · · · · · · · · · · · ·				
Contact Name:		Sarah Von Raesfeld	Lab Contact Name:		Jackie Trude	I
Phone Number:		925-627-4654	Phone Number:		843-769-738	3
Fax Number:		925-627-4501	Fax Number:		843-766-1178	3
E-mail Address:	<u>Sarah</u>	.VonRaesfeld@mwhglobal.com	E-mail Address:	jacque	line.trudell@g	gel.com
		SAMPLE C	ONTAINER ORDER FORM			
Date Required:			<b>Requested Analyses:</b>	(Sp	pecify # of Samp	oles)
				Water	Soil	Contingent
			Dioxins (1613B)	15	124	0
Date Sample Pickup:			EPA 8015M (DRO)			
			EPA 8015M (JET FUEL)			
Ship Containers To:			EPA 8015M (CC)			
Project Site		(enter "X")	TCE (8260B)	5	12	0
Consultant Office		(enter "X")	EPA 8270C SIM (SVOC)			
Other Location (specify in		_ ` ` `	EPA 8310 (PAH)			
comments)		(enter "X")	EPA 8082 (PCB)	3	5	0
		_ ` ` `	Nickel (6020)	5	10	0
Container Information	:		Chromium (6020)	5	10	0
Trip Blank (VOA only)	No	(Yes/No)	Silver (6020)	5	10	0
Temp Blank (VOA Only)		(Yes/No)	Cadmium (6020)	10	35	0
DI Water Required?	-	(Yes/No)	Arsenic (6020)	5	10	0
MS/MSD Extra Bottles?		(Yes/No)	% Moisture (D2216)	0	170	0
			Lead (6020)	10	65	0
Sample Matrix:			Copper (6020)	10	75	0
Soil	х	(select all applicable)	Zinc (6020)	5	20	0
Water		(select all applicable)	Mercury by 7471A/7470A	5	25	0
Vapor		(select all applicable)	, , , , , , , , , , , , , , , , , , ,			
Est. Total # of Samples:	175	Est. Total # of EDDs				
		LABORATORY R	EPORTING REQUIREMENTS			
Project TAT:			Laboratory Results/Repo	rts Delivera		
Normal:		(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 Fax/E-mail Contact			
Report Due Date:				Sarah.VonRae	sfeld@mwhgloba	al.com
·			- Send Original Reports To:			
Special Reporting Rec	wirom	ente:	Project Site		(enter "X")	
	-		-		(enter "X")	
Contingent Analysis?	No	(Yes/No)	Consultant Office			
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			
		-		_		
		CONFIRMATION	OF TRANSMITTAL & RECEIPT			
LTO Sent By:			LTO Received By-			
-	Sarah V	on Raesfeld	Name:			
Date:	09/02/0	9	Date:			

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Case Narrative for Boeing - SSFL (MWH) Work Order: 238383 SDG: 238383

October 12, 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 October 06, 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>
238383001	HZET0237S001
238383002	HZET0238S001
238383003	HZET0239S001
238383004	HZET0240S001
238383005	HZET0241S001

#### **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.

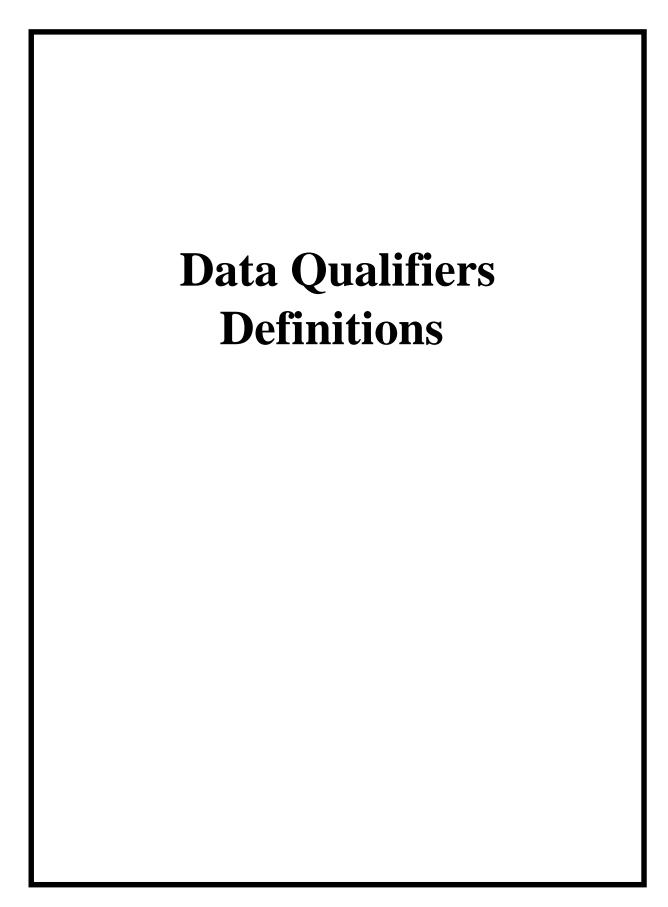
#### Data Package:

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 Semivolatile PCB, Metals and Percent Moisture.

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

Jacqueline a Judell

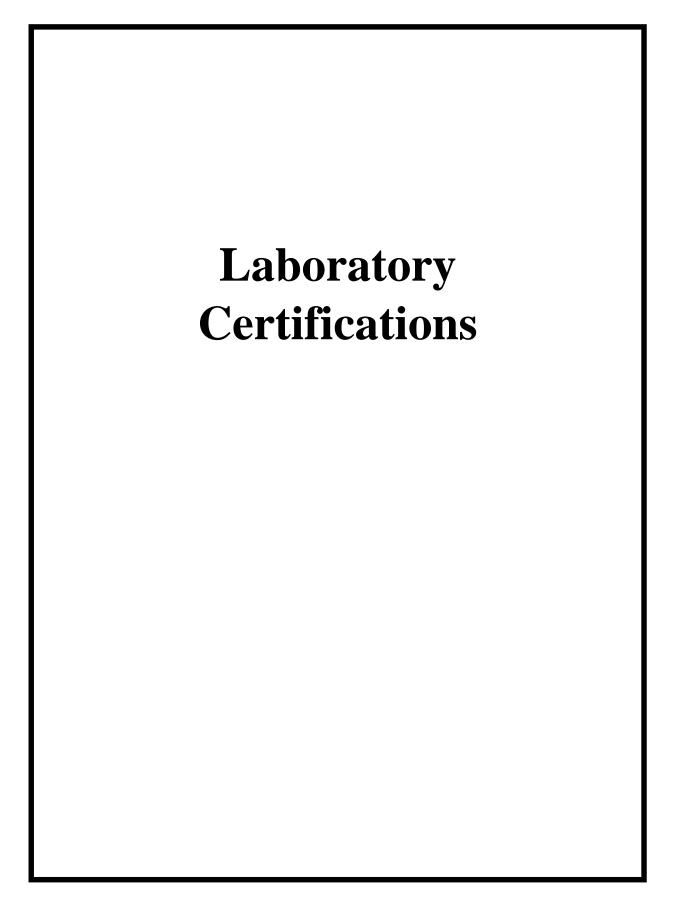
Project Manager



#### 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 07 October 2009



## DATA VALIDATION REPORT

Boeing SSFL RFI ISRA

SAMPLE DELIVERY GROUP: 238383

Prepared by

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

#### I. INTRODUCTION

Task Order Title: Contract Task Order: Sample Delivery Group:	Boeing SSFL RFI ISRA 1261.500D.00 238383
Project Manager: Matrix:	Dixie Hambrick soil
QC Level:	V
No. of Samples:	5
No. of Reanalyses/Dilutions:	0
Laboratory:	GEL

#### Table 1. Sample Identification

Sample Name	Lab Sample Name	Sub-Lab Sample Name	Matrix	Collection	Method
HZET0237S001	238383001	N/A	Soil	10/5/2009 1:55:00 PM	6020, 8082
HZET0238S001	238383002	N/A	Soil	10/5/2009 2:00:00 PM	6020, 8082
HZET0239S001	238383003	N/A	Soil	10/5/2009 2:18:00 PM	6020, 8082
HZET0240S001	238383004	N/A	Soil	10/5/2009 2:10:00 PM	6020, 8082
HZET0241S001	238383005	N/A	Soil	10/5/2009 2:05:00 PM	6020, 8082

#### II. Sample Management

No anomalies were observed regarding sample management. The samples in this SDG were received at the laboratory within the temperature limits of  $4^{\circ}C \pm 2^{\circ}C$ . 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	r 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 or PCB congeners.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. The associated value is the sample detection limit or the quantitation limit for perchlorate only.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
T-I	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration. The tentative identification represents a compound with a CAS number and fit greater than 80%.	Not applicable

#### Data Qualifier Reference Table

2

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.
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.
*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 6020—Lead

Reviewed By: P. Meeks Date Reviewed: October 13, 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 Method 6020, and the National Functional Guidelines for Inorganic Data Review (7/02).

- Holding Times: The analytical holding time, six months for ICP-MS, was met.
- Tuning: Review is not applicable at a Level V validation.
- Calibration: Review is not applicable at a Level V validation.
- Blanks: Method blanks and CCBs had no detects.
- Interference Check Samples: Review is not applicable at a Level V validation.
- Blank Spikes and Laboratory Control Samples: The recovery was within laboratoryestablished QC limits.
- Laboratory Duplicates: A laboratory duplicate analysis was performed on HZET0237S001. The RPD was within the method-established control limit.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HZET0237S001. Both recoveries and the RPD were within laboratory-established QC limits.
- Serial Dilution: A serial dilution analysis was performed on HZET0237S001. The %D was 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 analyses were reported from the laboratory's standard 2x 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: FBQW2239 (235913) was identified as the field blank associated with the samples in this SDG. Lead was not detected in this sample. This SDG had no identified equipment rinsate.
- Field Duplicates: There were no field duplicate samples identified for this SDG.

#### B. EPA METHOD 8082—PCBs

Reviewed By: P. Meeks Date Reviewed: October 13, 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: Extraction and analytical holding times were met. The soil samples were extracted within 14 days of collection and analyzed 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 HZET0237S001. 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: FBQW2239 (235913) was identified as the field blank associated with the samples in this SDG. There were no detects above the MDL in this sample. This SDG had no identified equipment rinsate.
  - 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. Although not usually reviewed at Level V, the laboratory flagged the Aroclor-1254 result for HZET0239S001 as having an intercolumn %D above 40%. This result was therefore, qualified as estimated, "J."
- 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: 238383

### Analysis Method 6020

Sample Name	HZET0237S001		Matrix 7	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238383001	Sample		0/5/2009 1:55:00 PM		alidation Le	
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Lead	7439921	7.56	0.399	0.0998 mg/kg			
Sample Name	HZET0238S001		Matrix [	Fype: Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238383002	Sample Date:10/5/2009 2:00:00 PMValidation Level:V			vel: V		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Lead	7439921	4.19	0.401	0.1 mg/kg			
Sample Name	HZET0239S001		Matrix 7	Fype: Soil	Rest	ult Type: Pr	imary Result
Lab Sample Name:	238383003	Sample	Date: 1	0/5/2009 2:18:00 PM	V	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Lead	7439921	10.2	0.418	0.105 mg/kg			
Sample Name	HZET0240S001		Matrix 7	<b>Fype:</b> Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	238383004	Sample	Date: 1	0/5/2009 2:10:00 PM	۷	alidation Le	vel: V
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
-	CAS No 7439921		<b>RL</b> 0.411				
-		Value		Units 0.103 mg/kg	Qualifier		Notes
Lead	7439921	<b>Value</b> 8.08	0.411 Matrix 7	Units 0.103 mg/kg	Qualifier Res	Qualifier	Notes imary Result
Lead Sample Name	7439921 HZET0241S001	<b>Value</b> 8.08	0.411 Matrix 7	Units 0.103 mg/kg Type: Soil	Qualifier Res	Qualifier alt Type: Pr	Notes

Sample Name	HZET0237S001		Matrix 7	Type: Soil	Res	<b>Result Type:</b> Primary Result		
Lab Sample Name:	238383001	Sample	Date: 10	0/5/2009 1:55:00 PM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aroclor-1016	12674112	3.45	3.45	1.15 ug/kg	U	U		
Aroclor-1221	11104282	3.45	3.45	1.15 ug/kg	U	U		
Aroclor-1232	11141165	3.45	3.45	1.15 ug/kg	U	U		
Aroclor-1242	53469219	3.45	3.45	1.15 ug/kg	U	U		
Aroclor-1248	12672296	3.45	3.45	1.15 ug/kg	U	U		
Aroclor-1254	11097691	3.45	3.45	1.15 ug/kg	U	U		
Aroclor-1260	11096825	3.45	3.45	1.15 ug/kg	U	U		
Sample Name	HZET0238S001	Matrix Type: Soil Result Type: Primary Result					imary Result	
Lab Sample Name:	238383002	Sample	Date: 10	0/5/2009 2:00:00 PM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aroclor-1016	12674112	3.49	3.49	1.16 ug/kg	U	U		
Aroclor-1221	11104282	3.49	3.49	1.16 ug/kg	U	U		
Aroclor-1232	11141165	3.49	3.49	1.16 ug/kg	U	U		
Aroclor-1242	53469219	3.49	3.49	1.16 ug/kg	U	U		
Aroclor-1248	12672296	3.49	3.49	1.16 ug/kg	U	U		
Aroclor-1254	11097691	3.49	3.49	1.16 ug/kg	U	U		
Aroclor-1260	11096825	3.49	3.49	1.16 ug/kg	U	U		
Sample Name	HZET0239S001	Matrix Type: Soil Result Type: Primar				imary Result		
Lab Sample Name:	238383003	Sample Date: 10/5/2009 2:18:00 PM			V	Validation Level: $V$		
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aroclor-1016	12674112	3.53	3.53	1.18 ug/kg	U	U		
Aroclor-1221	11104282	3.53	3.53	1.18 ug/kg	U	U		
Aroclor-1232	11141165	3.53	3.53	1.18 ug/kg	U	U		
Aroclor-1242	53469219	3.53	3.53	1.18 ug/kg	U	U		
Aroclor-1248	12672296	3.53	3.53	1.18 ug/kg	U	U		
Aroclor-1254	11097691	6.7	3.53	1.18 ug/kg	Р	J	*Ш	
Aroclor-1260	11096825	6.3	3.53	1.18 ug/kg				

## Analysis Method 8082

Sample Name	HZET0240S001		Matrix 7	Type: Soil	<b>Result Type:</b> Primary Result			
Lab Sample Name:	238383004	Sample Date: 10/5/2009 2:10:00 PM			Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aroclor-1016	12674112	3.58	3.58	1.19 ug/kg	U	U		
Aroclor-1221	11104282	3.58	3.58	1.19 ug/kg	U	U		
Aroclor-1232	11141165	3.58	3.58	1.19 ug/kg	U	U		
Aroclor-1242	53469219	3.58	3.58	1.19 ug/kg	U	U		
Aroclor-1248	12672296	3.58	3.58	1.19 ug/kg	U	U		
Aroclor-1254	11097691	3.58	3.58	1.19 ug/kg	U	U		
Aroclor-1260	11096825	3.58	3.58	1.19 ug/kg	U	U		
Sample Name	HZET0241S001	Matrix Type: Soil Result Type: Primary Resu						
Lab Sample Name:	238383005	Sample l	Date: 1	0/5/2009 2:05:00 PM	Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Aroclor-1016	12674112	3.57	3.57	1.19 ug/kg	U	U		
Aroclor-1221	11104282	3.57	3.57	1.19 ug/kg	U	U		
	11104282 11141165	3.57 3.57	3.57 3.57	1.19 ug/kg 1.19 ug/kg	U	U U		
Aroclor-1221 Aroclor-1232 Aroclor-1242				00	-	-		
Aroclor-1232 Aroclor-1242	11141165	3.57	3.57	1.19 ug/kg	U	U		
Aroclor-1232	11141165 53469219	3.57 3.57	3.57 3.57	1.19 ug/kg 1.19 ug/kg	U U	U U		

## Analysis Method 8082