Chain of Custody and Supporting Documentation

Project Information Project Information Client Name: Boeing Collector: B. Martasin Sampling Event: ISRA Sampling, Feb 2009 Contact #: Requested sfeld Project Number: 1891614.050104 Requested nia Blvd Project Manager: Alex Fischl Requested	Page: Instructi nalyses Instructi numerical analyses areound tin H - Hold EH - Extre Hold
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Lab Name: GEL Laboratories, LLC	
eld@mwhglobal.c Lab Contact: Cheryl Jones	
whglobal.com Lab Address: 2040 Savage Road 70 is in 20	Note: Valu
Charleston, SC 29407	bellow are Times.
Lab Phone: (843) 769-7388	
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SAMPLE RECEIPT & REVIEW FORM

Clie	nt: SSFL-ISRA			SDG/ARCOC/Work Order: 22 7271 22787414 MAAUU
Rec	eived By: JT			Date Received: 4110109
Sus	ected Hazard Information	(es	2	*If Counts > x2 area background on samples not marked "radioactive", contact
COC	/Samples marked as radioactive?	1	×	the Radiation Safety Group of further investigation.
Class	sified Radioactive II or III by RSO?		$\frac{1}{x}$	Maximum Counts Observed*: 40CPM
coc	/Samples marked containing PCBs?	+	X	
hip	bed as a DOT Hazardous?	+	X	Hazard Class Shipped:
am	ples identified as Foreign Soil?		X	
=				
	Sample Receipt Criteria	Ye	NA	2 Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X		Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within $0 \le 6$ deg. C?	X		Preservation Method: ice bags blue ice dry ice none other (describe)
3	Chain of custody documents included with shipment?	χ		
4	Sample containers intact and sealed?	χ		Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		χ	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X	Sample ID's and containers affected:
7	Are Encore containers present?			(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	χ		Id's and tests affected:
•	Sample ID's on COC match ID's on bottles?	X		Sample ID's and containers affected:
0	Date & time on COC match date & time on bottles?	χ		Sample ID's affected:
1	Number of containers received match number indicated on COC?	X		Sample ID's affected:
2	COC form is properly signed in relinquished/received sections?	X		
mm	ents:			•
	Feder 9457		315	58 0731

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Clien	t: \$SFL			s	DG/ARCOC/Work Order: 227874
Recei	ved By: Ricky Albree			D	Date Received: 4/15/09
Suspe	ected Hazard Information	Yes	No	*If Co the Ra	bunts $> x2$ area background on samples not marked "radioactive", contact diation Safety Group of further investigation.
COC/	Samples marked as radioactive?		J	Maxin	num Counts Observed*: 40 CPU
Classi	ified Radioactive II or III by RSO?		2		· · · · · · · · · · · · · · · · · · ·
COC/	Samples marked containing PCBs?		V		
Shipp	ed as a DOT Hazardous?		U	Hazaro	d Class Shipped: UN#:
Samp	les identified as Foreign Soil?		v		
	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	/			seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within $0 \le 6$ deg. C?	v			Preservation Method: the base blue ice dry ice none other (describe) 3 **
3	Chain of custody documents included with shipment?			/	Samples being returned to GEL - No cor
4	Sample containers intact and sealed?	2			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		~	S	ample ID's, containers affected and observed pH: f Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		>	S	ample ID's and containers affected:
7	Are Encore containers present?			-	If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	v		Id	d's and tests affected:
9	Sample ID's on COC match ID's on bottles?	>		s	Coc clocely at GEL
10	Date & time on COC match date & time on bottles?	1		s	Sample ID's affected:
11	Number of containers received match number indicated on COC?	~		s	Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?			~	
Com	ments: UP5 12 209 SERS returned (1) of the GEL for anad	4 on nysi	Y R tein .s.	er f	01 4174 6895 For each sample (CNBSD1315001, EBQW2207) - 415log
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Address:	2121 N. California Bivd	Project Manuger	Alex Flechi	-		<u> </u>		:				Lecend
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	CA	Field Contact #:	(323) 304-4969		ų .	1. d*		 				H + Hold
	94598	Lat Name:	GEL Laboratorios, LLC	:					1			Hold
Email	samph-wooreesteld@mwhglabel.c	Lab Contact	Chery Jones	1	3	Miel	Me	-j	Me			
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GEL Laboratories LLC SAMPLE RECEIPT & REVIEW FORM

C		DUITUUITUU LLU				2278744
Clien	: SSF	Z				SDG/ARCOC/Work Order: 225101- JT 4/14/09
Recei	ved By:	licky Albee				Date Received: 2/25/09
Suspe	cted Hazard	Information	Yes	No	*If C the F	$2 + x^2$ area background on samples not marked "radioactive", contact Radiation Safety Group of further investigation.
COC/	Samples mark	ted as radioactive?		v	Max	imum Counts Observed*: 60 CPM
Classi	fied Radioact	ive II or III by RSO?		1		
COC/	Samples mark	ed containing PCBs?		4		
Shipp	ed as a DOT I	Hazardous?		~	Haza	rd Class Shipped: UN#:
Samp	les identified a	as Foreign Soil?		~		
	Sample]	Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping con sealed?	tainers received intact and	5			seals broken damaged container leaking container other (describe)
2	Samples required within $0 \le 6$	uiring cold preservation deg. C?	>			Preservation Method: (ce bage blue ice dry ice none other (describe) 3" 4"
3	Chain of cust with shipmer	tody documents included nt?	~			
4	Sample conta	ainers intact and sealed?	~			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requ preservation	uiring chemical at proper pH?	~			Sample ID's, containers affected and observed pri: If Preservation added, Lot#:
6	VOA vials fr < 6mm bubb	ree of headspace (defined as le)?		~		Sample ID's and containers arrected:
7	Are Encore of	containers present?			~	(If yes, immediately deliver to volanies laboratory)
8	Samples rece	eived within holding time?	~			Id's and tests affected:
9	Sample ID's bottles?	on COC match ID's on			r	Sample ID's and containers attrected: See comments
10	Date & time on bottles?	on COC match date & time	~			Sample ID's affected:
11	Number of c number indi	containers received match cated on COC?	~			Sample ID's affected:
12	COC form is relinquished	s properly signed in /received sections?	r			
Com	ments: Feb Did o Received	IG 9457 315 9457 315 not receive H I HZBS00955	8 2 B 0 0	41 49 500	63- 14-1 290 	sooist (page 3 of con) on coc. 1 container, collected 2/24/29 01 coc. 1 container, collected 2/24/29
L		PM (or PMA) review: Initi	als	Ň	Π	Date _2/25/09

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Customer	r Information		Project Infor	matio			Pro	Ject	nfor	natio	. 5								Pa	:	1 of 3
Site:	SSFL		Gilent Name:	ăı	being		Col	ector	<u> </u>	Leav	Ħ						oeing	Ш			
Company:	MWH		Sampling Ever	nt: IS	RA Sampling,	Feb 2009	Sol	tact #			1		i	!							
Report to:	Sarah Von Raesfeld		Project Numb	er: 16	91614.05010				-			enbe	sted /	Analys	set				Inst	tructions/	ТАТ
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	Walnut Creek		Fleid Contact:	ā	ian Martasin		1												arou	lyses equat and time in o	e to turn days
	CA		Field Contact	#: (3	23) 304-4969		T												Ŧ	Рон	
	94596		Lab Name:	O	EL Laboratorie	is, LLC									-				표로	- Extract/Ex d	trude &
Emali:	sarah.vonraesfeld@mwh	iglobal.c	Lab Contact:	o	heryl Jones		1	C	Dic		Ne	Metal	Me	1	0	Metal	Me	_			
	sean.leffler@mwhglobal.	com	Lab Address:	5	140 Savage Ro	bad	D22	Dioxi	oxin t	Vietal	Vietal	ls 60	tals	Meta	Meta	ls 60	etals	Mata	Note	e: Values in	the cells
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			Lab Phone:	8	43) 769-7388		/oist	1613	13B	20 C	20 Ci		Soil	20 S	020 \$	/ater) Wat	20.7			
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Company	: MWH		Sampling Even	t: ISRA S	ampling, F	eb 2009	Conta	ct #:							<u> </u>				
Report to	: Sarah Von Raesfeld		Project Numbe	r: 189161	4.050104						Reque	sted	Analys	86				Instructions/TA	L
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	CA		Field Contact #	: (323) 3	04-4969													H - Hold	
	94596		Lab Name:	GELLE	aboratories	, LLC											_	EH - Extract/Extru Hold	de &
Email:	sarah.vonraesfeld@n	nwhglobal.c	Lab Contact:	Cheryl	Jones			Di	1	1	Meta	Me			Meta				
	sean.leffler@mwhglo	bal.com	Lab Address:	2040 S	avage Ros	q	D2	Diovi	Meta	Meta	tals	etals	Meta	Met	etais	Meta		Note: Values in th	a calle
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Instructions/TAT	nalyses	Requested A	1891614.050104	Project Number:	esfeld
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	Boeing PM:	stor: A. Leavitt	Boeing Collect	Gilent Name:	
-	•	ct Information	on Projec	Project Informati	
Page: 3 of 3					
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0	ompany:	MWH	Sa	mpling Even	t: ISRA	Sampling, Fe	sb 2009	Cont	act #:				-					-		
12	Report to:	Sarah Von Raesfeld	Pr	oject Number	. 18916	14.050104						Reg	ueste	I Analyse					Instruc	ctions/TAT
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		Walnut Creek	Ĩ	ald Contact:	Brian A	Vartasin												-	analyse	is equate to turn time in days
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		94596	La	b Name:	GELL	aboratories,	TIC	_									_	_	EH - EX	tract/Extrude &
	Email:	sarah.vonraesfeld@mwhglob	al.c La	b Contact:	Cheryl	Jones				D		M	Meta	M	Metz	M	_			
_		sean.leftier@mwhgtobal.com	La	b Address:	2040 5	Savage Road	F	D2	Dioxi	Meta	Meta	ais	als 60	Meta	Met	etals	Metz		Mote: V	allos att al sould
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1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Q~ 2	2/25/09	Rih Juhn	philog				
Company: MWH	Time: /630	Company: EC	Time: එළ	Company:	Time:	Company:	Time:
Comments:					Geo	tracker EDF	
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GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

			_	CZ78J4H
Client:	SSFL			SDG/ARCOC/Work Order: 225170- JT 4114109
Received	By: Ricky Alber			Date Received: Z/26/09
Suspecter	d Hazard Information	Yes	No N	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Sam	pples marked as radioactive?		~	Maximum Counts Observed*: 60 CPM
Classified	Radioactive II or III by RSO?	 	~	
UC/Sam	ples marked containing PCBs?		~	
mpped a	s a DOI Hazardous?		2	Hazard Class Shipped: UN#:
amples 1	dentified as Foreign Soil?		~	
	Sample Receipt Criteria	Yes	NA	2 Comments/Qualifiers (Required for Non-Conforming Items)
1 Shij seal	pping containers received intact and led?	~		Circle Applicable: seals broken damaged container leaking container other (describe)
2 San with	nples requiring cold preservation him $0 \leq 6 \deg$. C?	v		Preservation Method: ter bags blue ice dry ice none other (describe)
3 Cha	in of custody documents included a shipment?	V		
4 Sam	uple containers intact and sealed?	~		Circle Applicable: seals broken damaged container leaking container other (describe)
5 Sam	nples requiring chemical servation at proper pH?	~		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VO/ < 61	A vials free of headspace (defined as nm bubble)?		~	Sample ID's and containers affected:
7 Are	Encore containers present?			(If yes, immediately deliver to Volatiles laboratory)
8 Sam	ples received within holding time?	~		Id's and tests affected:
9 Sam bottl	ple ID's on COC match ID's on les?	~		Sample ID's and containers affected:
10 Date on b	e & time on COC match date & time ottles?	/		Sample ID's affected:
	aber of containers received match ber indicated on COC?	~		Sample ID's affected:
12 COC relin	C form is properly signed in quished/received sections?	~		
mments:	Fedex 9457 3 9457 3	(58	8	4196-3** 4 <i>185 -1*</i> *
	PM (or PMA) review: Initial	s		Celf Date _2/26/09

Subject: ISRA Hold Samples From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com> Date: Tue, 14 Apr 2009 08:11:51 -0600 To: Cheryl Jones <cj@gel.com>, Jackie Trudell <jacqueline.trudell@gel.com>

Hi Cheryl,

Please analyze the hold samples listed below. We would like the samples highlighted in yellow run on a 5 day TAT (if possible), the rest of the samples can be run on a standard TAT.

Also, please log all of these samples into the same SDG.

Thanks, Sarah



BUILDING A BETTER WORLD

Sarah Von Raesfeld		
Environmental Chemist		
MWH Americas, Inc.	Telephone:	925 627 4500
2121 N. California Blvd.	Direct Line:	925 627 4654
Suite 600	Facsimile:	925 627 4501
Walnut Creek, California 94596		

From: Alexander Fischl Sent: Monday, April 13, 2009 5:10 PM To: Sarah Von Raesfeld Subject: RE: ISRA hold samples

Sarah,

Please request the following analyses:

CNBS0131S001	copper, lead, dioxins
HZBS0105S001	dioxins
HZBS0106S001	dioxins
HZBS0106S002	dioxins
HZBS0107D001	dioxins
HZBS0107S001	dioxins
EBQW2207	dioxins, lead, copper
HZBS0062\$001	copper, dioxins
HZBS0069S001	copper, dioxins
HZBS0080S001	copper, dioxins

HZBS0082S001 HZBS0084S001 copper, dioxins copper, dioxins

Thanks, Alex Fischl MWH - Walnut Creek Office 925-627-4627 Date: 04/14/09

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

To:	Cheryl Jones	Phone: 843-769-7388
Laboratory	GEL Laboratories, LLC	E-mail: cj@gel.com
From:	Sarah Von Raesfeld	
Requestor	signature:	
Subject:	Chain-of-Custody Form Analytical Request Change	No. of Pages: 8

Per Request:

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

COC No.	Client Sample ID(s)	Date Collected	Originally Requested Analyses	Change (s) and Method (s) Now Requested
MWHAL20090224_00	HZBS0062S001	02/24/09		Run dioxins and copper
MWHAL20090225_00	HZBS0069S001	02/25/09		Run dioxins and copper
MWHAL20090225_00	HZBS0080S001	02/25/09		Run dioxins and copper
MWHAL20090225_00	HZBS0082S001	02/25/09		Run dioxins and copper
MWHAL20090225_00	HZBS0084S001	02/25/09		Run dioxins and copper
MWHBM20090409_00	EBQW2207	04/09/09		Run dioxins, copper, and lead
MWHBM20090409_00	CNBS0131S001	04/09/09		Run dioxins, copper, lead, and % moisture
MWHBM20090409_00	HZBS0105S001 HZBS0106S001 HZBS0106S002 HZBS0107S001 HZBS0107D001	04/09/09		Run dioxins and % moisture

 The reason for these changes:

 Incorrectly marked on COC form

 Lack of sample volume

 Change in analytical request

 X

 Other:

Thank you

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Company:	HWH	Sampling Even	t: ISRA Sampling	I, Feb 2009	Contac	*			i		•	<u> </u>	i cerud	ž	•	
Report to:	Sarah Von Raesfeld	Project Numbe	1891614.0501	24				Ra	Dueste	d Anal	VEAS	_			Ineter	ter
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	Walnut Creek	Field Contact:	Brian Martasin							-					analys	es aquate to turn time in deve
	CA	Field Contact #	: (323) 304-4969													
	94596	Lab Name:	GEL Laboratori	es, LLC												ra xtract/Extrude &
Email:	sarah.vonraesfeid@mwhglo	bal.c Lab Contact:	Cheryl Jones			D		м	Met	N		Met	N		POH	
	sean.leffler@mwhglobal.con	n Lab Address:	2040 Savage F	load	Dico D2	ioxin	Met	etals	als 6	Met letals	Me	ais 6	Mei Aetal			
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Site:	SSFL	Client Name:	Boeing		Collector:	B. Martasin		Boeing PM:	
Company:	HWM	Sampling Event:	ISRA Sampling), Feb 2009	Contact #:				
Report to:	Sarah Von Raesfeld	Project Number:	1891614.05010	04		Reque	sted Analyses		Instructions/TAT
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl			M M M			
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Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones		Di	20 20 20			
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage F	Road	oxin I Dioxi D2	WC Sa Sa			Note: Values in the cells
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LABORATORY TASK ORDER (LTO) FORM

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

Event Name:	ISRA Sa	mpling, Feb 2009	Start:	2/19/2009	_ End:	2/23/2009
LTO DATE:			LTC	NUMBER:		
Consultant Name:		MWH	Contract Laboratory:		GEL	
Address:	2121 N	I. California Blvd. Ste. 6	Address:	20	040 Savage F	Rd.
	Wa	alnut Creek, CA 94596		Cha	rleston, SC 2	9407
Contact Name:		Sarah Von Raesfeld	Lab Contact Name:		Cheryl Jones	3
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.co	<u>m</u> E-mail Address:		<u>cj@gel.com</u>	
		SAMPLE	CONTAINER ORDER FORM			
Date Required:	02/19/0)9	Requested Analyses:	(Sp	becify # of Samp	bles)
			Diaving (1612B)	water	5011	Contingent
Date Sample Pickup	ΝΔ			5	9	14
Date Sample Fickup.						
Shin Containers To:			EPA 8015M (CC)			
Project Site	x	(enter "X")	EPA 8260B (VOC)			
Consultant Office		_(enter "X")	EPA 8270C SIM (SVOC)			
Other Location (specify in		_(ontor)()	EPA 8310 (PAH)			
comments)		(enter "X")	EPA 8082 (PCB)			
			Acetone (8260B)			
Container Information	:		EPA TO-15 VOCs (SIM)			
Trip Blank (VOA only)	Yes	(Yes/No)	Metals (6010B/6020/7470A/7471A)			
Temp Blank (VOA Only)	No	(Yes/No)	Cadmium (6020)	5	15	10
DI Water Required?	No	(Yes/No)	Arsenic (6020)	5	5	5
MS/MSD Extra Bottles?	No	(Yes/No)	% Moisture (D2216)	0	40	30
		,	Lead (6020)	5	40	30
Sample Matrix:			Copper (6020)	5	10	5
Soil	Х	(select all applicable)	Zinc (6020)	5	10	5
Water	Х	(select all applicable)	EPA TO-14 (VOCs)			
Vapor		(select all applicable)	-			
Est. Total # of Samples:	75	Est. Total # of ED	DDs <u>5</u>			
		LABORATOR	REPORTING REQUIREMENTS	nte Dellucer		
Project IAI:	X		Laboratory Results/Repo	rts Delivera		
Normai:	X	(10 Business days)				
RUSH:		_(Specify- 24 / 48 / 72HRS)	Draft Results E-mail?:	Yes	(Yes/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 Rec	quireme	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	INSTRUCTIONS/LTO NOTES			
		CONFIRMATI		r		
LTO Sont But				I		
LIO Sem By:	.		LIO Received By-			
Name:	Sean Let	tler	Name:			
Date:	02/20/09		Date:			

LABORATORY TASK ORDER (LTO) FORM (PAGE 2)

ADDITIONAL REQUIRED ANALYSES

LTO DATE:				LTO NUM	IBER:
Consultant Name:	MWH		Cont	tract Laboratory:	GEL
Address:	2121 N. California B	lvd. Ste. 600	-	Address:	2040 Savage Rd.
	Walnut Creek, C	A 94596	-		Charleston, SC 29407
			-		
Contact Name:	Sarah Von Ra	esfeld	- Lai	b Contact Name:	Cheryl Jones
Phone Number	925-627-4	654		Phone Number	843-769-7388
Fax Number:	925-627-4	501	-	Fax Number:	843-766-1178
E-mail Address:	Sarah VonBagefold@m	whalobal com	-	E-mail Address	
	Saran. von Kaesield @n	Iwnglobal.com	-		<u>cjægei.com</u>
	SAMPLE	CONTAINER		(CONTINUED)	
	Requested Analyses:		(Specify # of Sam	oles)	
		Water	Soil	Contingent	
	Arsenic (6020)				
	Lead (6020)				
	Cadmium (6020)				
	- Lithium (6020)				
	214114111 (0020)				
	Sodium (6020)				
	-				
	Selenium (6020)				
	-				
	Thallium (6020)				
	-				
	Zinc (6020)				
	-				
	Boron (6010B				
	-				
	Vanadium (6010B)				
	-				
	Copper (6020)			_	
	Ziroonium (6020)				
	Zirconium (6020)		-	-	
	L		!	<u> </u>	
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Case Narrative for Boeing - Santa Susanna Field Laboratory Work Order: 227874 SDG: 227874H

April 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 April 10, 2009, February 25, 2009 and February 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
Identification	Description
227874001	CNBS0131S001
227874002	EBQW2207
227874003	HZBS0105S001
227874004	HZBS0106S001
227874005	HZBS0106S002
227874006	HZBS0107D001
227874007	HZBS0107S001
227874008	HZBS0062S001
227874009	HZBS0069S001
227874010	HZBS0080S001
227874011	HZBS0082S001
227874012	HZBS0084S001

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 (SGS Laboratories).

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

Cley Sfor Cheryl Jones

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
- 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 24 April 2009



DATA VALIDATION REPORT

Boeing SSFL RFI ISRA

SAMPLE DELIVERY GROUP: 227874H

Prepared by

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

I. INTRODUCTION

Task Order Title:	Boeing SSFL RFI ISRA
Contract Task Order:	1261.500D.00
Sample Delivery Group:	227874H
Project Manager:	Dixie Hambrick
Matrix:	water/soil
QC Level:	V
No. of Samples:	12
No. of Reanalyses/Dilutions:	0
Laboratory:	GEL

Table 1. Sample Identification

Sample Name	Lab Sample Name	Sub-Lab Sample Name	Matrix	Collection	Method
CNBS0131S001	227874001	G341-577-1B	Soil	4/9/2009 2:35:00 PM	6020, 1613B
EBQW2207	227874002	G341-577-2C	Water	4/9/2009 9:40:00 AM	6020, 1613B
HZBS0062S001	227874008	G341-577-9B	Soil	2/24/2009 11:01:00 AM	6020, 1613B
HZBS0069S001	227874009	G341-577-10B	Soil	2/25/2009 12:51:00 PM	6020, 1613B
HZBS0080S001	227874010	G341-577-11B	Soil	2/25/2009 10:02:00 AM	6020, 1613B
HZBS0082S001	227874011	G341-577-12B	Soil	2/25/2009 9:00:00 AM	6020, 1613B
HZBS0084S001	227874012	G341-577-13C	Soil	2/25/2009 8:40:00 AM	6020, 1613B
HZBS0105S001	G341-577-3B	N/A	Soil	4/9/2009 8:40:00 AM	1613B
HZBS0106S001	G341-577-4B	N/A	Soil	4/9/2009 8:20:00 AM	1613B
HZBS0106S002	G341-577-5B	N/A	Soil	4/9/2009 8:30:00 AM	1613B
HZBS0107D001	G341-577-6B	N/A	Soil	4/9/2009	1613B
HZBS0107S001	G341-577-7B	N/A	Soil	4/9/2009 8·10·00 AM	1613B

II. Sample Management

No anomalies were observed regarding sample management. One cooler associated with the samples in this SDG was received below the control limit; however, the samples were not noted to be frozen or damaged. The remaining coolers in this SDG were received at the laboratory within the temperature limits of $4^{\circ}C \pm 2^{\circ}C$. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. Custody seals were intact. If necessary, the client ID was added to the sample result summary by the reviewer.

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

Data Qualifier Reference Table

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

Qualifier	Organics	Inorganics
Н	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect
С	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
В	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
Е	Not applicable.	Duplicates showed poor agreement.
Ι	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
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.
* , *	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: K. Shadowlight Date Reviewed: May 1, 2009

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

- Holding Times: Extraction and analytical holding times were met. The samples were extracted and analyzed within one year of collection.
- Instrument Performance: Review is not applicable at a Level V validation.
- Calibration: Review is not applicable at a Level V validation.
- Blanks: Method blanks had no target compound detects above the EDL.
- Blank Spikes and Laboratory Control Samples: Recoveries were within the acceptance criteria listed in Table 6 of Method 1613. RPDs for the OPR/OPRD were within the laboratory-established QC limits.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: Sample FBQW2209 (225106) was the field blank and EBQW2207 was the equipment rinsate sample identified for this SDG. There were no detects above the EDL in the field QC samples.
 - Field Duplicates: Samples HZBS0107S001 and HZBS0107D001 were the field duplicate samples identified for this SDG. All detects were in common and RPDs were ≤50%. The pair was considered to be in good agreement.
- Internal Standards Performance: Internal standard recoveries are not routinely evaluated at a Level V validation; however, the recoveries were reported on the sample result summaries. The labeled standard recoveries were within the acceptance criteria listed in Table 7 of Method 1613.
- Compound Identification: Review is not applicable at a Level V validation. The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613. Confirmation analysis was not performed by the laboratory for 2,3,7,8-TCDF detects below the RL; therefore,

any detects for 2,3,7,8-TCDF between the EDL and the adjusted RL were qualified as estimated, "J," in the samples of this SDG.

 Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. The laboratory calculated and reported compound-specific detection limits. Estimated maximum possible concentrations (EMPCs) were reported in some of the samples in this SDG. Any EMPC was qualified as an estimated nondetect, "UJ," in the samples of this SDG. 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—Metals

Reviewed By: P. Meeks Date Reviewed: May 1, 2009

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

- Holding Times: Analytical holding times, 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: Copper was detected in a soil method blank at 0.0661 mg/kg; therefore copper detected in HZBS0082S001 was qualified as nondetected, "U," at the level of contamination. 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 and the aqueous RPDs were within laboratory-established QC limits.
- Laboratory Duplicates: A laboratory duplicate analysis was performed on HZBS0069S001. The RPDs were within the laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HZBS0069S001. Recoveries and RPDs were within laboratory-established QC limits.
- Serial Dilution: Serial dilution analyses were performed on HZBS0069S001 and EBQW2207. All %Ds were within the method-established control limit.
- Internal Standards Performance: Review is not applicable at a Level V validation.

- Sample Result Verification: Review is not applicable at a Level V validation. As the samples in this SDG were validated at Level V, the QC information necessary to make an absolute determination of bias in the samples was not reviewed; therefore, when qualifications were applied, no bias was assigned. The soil samples were analyzed at the laboratory's standard 2x dilution. 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: EBQW2207 was the field blank and FBQW2229 (225106) was the field blank associated with the samples in this SDG. There were no applicable detects in the field QC samples.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.

Validated Sample Result Forms: 227874H

Sample Name	CNBS0131S0	01	Matrix 7	Гуре: 5	Soil	Result Type: Primary Result				
Lab Sample Name:	G341-577-1B	Sample	e Date: 4	/9/2009 2	:35:00 PM	v	Validation Level: V			
Matrix Type: Soil										
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
1,2,3,4,6,7,8-HpCDD	35822469	10.3	4.46	0.702	PG/G					
1,2,3,4,6,7,8-HpCDF	67562394	2.99	4.46	0.345	PG/G	А	J			
1,2,3,4,7,8,9-HpCDF	55673897	0.465	4.46	0.465	PG/G	U	U			
1,2,3,4,7,8-HxCDD	39227286	0.422	4.46	0.422	PG/G	U	U			
1,2,3,4,7,8-HxCDF	70648269	0.697	4.46	0.425	PG/G	А	J			
1,2,3,6,7,8-HxCDD	57653857	1.43	4.46	0.443	PG/G	А	J			
1,2,3,6,7,8-HxCDF	57117449	0.779	4.46	0.374	PG/G	А	J			
1,2,3,7,8,9-HxCDD	19408743	1.51	4.46	0.436	PG/G	А	J			
1,2,3,7,8,9-HxCDF	72918219	0.503	4.46	0.503	PG/G	U	U			
1,2,3,7,8-PeCDD	40321764	0.418	4.46	0.418	PG/G	U	U			
1,2,3,7,8-PeCDF	57117416	0.447	4.46	0.315	PG/G	А	J			
2,3,4,6,7,8-HxCDF	60851345	0.499	4.46	0.396	PG/G	А	J			
2,3,4,7,8-PeCDF	57117314	0.889	4.46	0.295	PG/G	А	J			
2,3,7,8-TCDD	1746016	0.338	0.891	0.338	PG/G	U	U			
2,3,7,8-TCDF	51207319	0.934	0.892	0.435	PG/G					
OCDD	3268879	109	8.91	1.62	PG/G					
OCDF	39001020	6.27	8.91	0.79	PG/G	А	J			
Total HpCDDs	37871004	38.3	4.46	0.702	PG/G					
Total HpCDFs	38998753	5.91	4.46	0.4	PG/G					
Total HxCDDs	34465468	5.84	4.46	0.434	PG/G					
Total HxCDFs	55684941	7.01	4.46	0.421	PG/G					
Total PeCDDs	36088229	0.418	4.46	0.418	PG/G	U	U			
Total PeCDFs	30402154	11.9	4.46	0.305	PG/G					
Total TCDDs	41903575	0.435	0.891	0.338	PG/G	А	J			
Total TCDFs	30402143	3.43	0.891	0.585	PG/G					

Sample Name	EBQW2207	Matrix Type: Water Result Type: Prin						imary Result
Lab Sample Name:	G341-577-2C	Sample	e Date: 4	/9/2009 9	:40:00 AM	v	Validation Le	vel: V
Matrix Type: Water	r							
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	0.0161	0.0472	0.0161	NG/L	U	U	
1,2,3,4,6,7,8-HpCDF	67562394	0.00388	0.0472	0.00388	NG/L	U	U	
1,2,3,4,7,8,9-HpCDF	55673897	0.00581	0.0472	0.00581	NG/L	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.00906	0.0472	0.00906	NG/L	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.00348	0.0472	0.00348	NG/L	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.00959	0.0472	0.00959	NG/L	U	U	
1,2,3,6,7,8-HxCDF	57117449	0.00337	0.0472	0.00337	NG/L	U	U	
1,2,3,7,8,9-HxCDD	19408743	0.0094	0.0472	0.0094	NG/L	U	U	
1,2,3,7,8,9-HxCDF	72918219	0.00424	0.0472	0.00424	NG/L	U	U	
1,2,3,7,8-PeCDD	40321764	0.00542	0.0472	0.00542	NG/L	U	U	
1,2,3,7,8-PeCDF	57117416	0.0023	0.0472	0.0023	NG/L	U	U	
2,3,4,6,7,8-HxCDF	60851345	0.00341	0.0472	0.00341	NG/L	U	U	
2,3,4,7,8-PeCDF	57117314	0.00215	0.0472	0.00215	NG/L	U	U	
2,3,7,8-TCDD	1746016	0.00365	0.00943	0.00365	NG/L	U	U	
2,3,7,8-TCDF	51207319	0.00469	0.00943	0.00469	NG/L	U	U	
OCDD	3268879	0.034	0.0943	0.034	NG/L	U	U	
OCDF	39001020	0.0086	0.0943	0.0086	NG/L	U	U	
Total HpCDDs	37871004	0.0161	0.0472	0.0161	NG/L	U	U	
Total HpCDFs	38998753	0.00475	0.0472	0.00475	NG/L	U	U	
Total HxCDDs	34465468	0.00936	0.0472	0.00936	NG/L	U	U	
Total HxCDFs	55684941	0.0036	0.0472	0.0036	NG/L	U	U	
Total PeCDDs	36088229	0.00542	0.0472	0.00542	NG/L	U	U	
Total PeCDFs	30402154	0.0024	0.0472	0.0024	NG/L	U	U	
Total TCDDs	41903575	0.00365	0.00943	0.00365	NG/L	U	U	
Total TCDFs	30402143	0.00469	0.00943	0.00469	NG/L	U	U	

Sample Name	HZBS0062S00	2S001 Matrix Type: Soil Result Type: Primary Res							
Lab Sample Name:	G341-577-9B	Sample	Date: 2	/24/2009	11:01:00 A	М	alidation Le	vel: V	
Matrix Type: Soil									
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1,2,3,4,6,7,8-HpCDD	35822469	129	4.36	0.703	PG/G				
1,2,3,4,6,7,8-HpCDF	67562394	16.5	4.36	0.442	PG/G				
1,2,3,4,7,8,9-HpCDF	55673897	1.39	4.36	0.578	PG/G	А	J		
1,2,3,4,7,8-HxCDD	39227286	1.07	4.36	0.405	PG/G	А	J		
1,2,3,4,7,8-HxCDF	70648269	1.71	4.36	0.321	PG/G	А	J		
1,2,3,6,7,8-HxCDD	57653857	4.8	4.36	0.398	PG/G				
1,2,3,6,7,8-HxCDF	57117449	0.769	4.36	0.322	PG/G	А	J		
1,2,3,7,8,9-HxCDD	19408743	1.79	4.36	0.404	PG/G	А	J		
1,2,3,7,8,9-HxCDF	72918219	0.678	4.36	0.437	PG/G	А	J		
1,2,3,7,8-PeCDD	40321764	0.548	4.36	0.295	PG/G	А	J		
1,2,3,7,8-PeCDF	57117416	0.494	4.36	0.222	PG/G	А	J		
2,3,4,6,7,8-HxCDF	60851345	1.02	4.36	0.334	PG/G	А	J		
2,3,4,7,8-PeCDF	57117314	1.16	4.36	0.195	PG/G	А	J		
2,3,7,8-TCDD	1746016	0.245	0.872	0.245	PG/G	U	U		
2,3,7,8-TCDF	51207319	0.844	0.872	0.36	PG/G	А	J	*III	
OCDD	3268879	2260	8.72	0.889	PG/G				
OCDF	39001020	0.634	8.72	0.634	PG/G	U	U		
Fotal HpCDDs	37871004	695	4.36	0.703	PG/G				
Total HpCDFs	38998753	60.2	4.36	0.503	PG/G				
Total HxCDDs	34465468	37.2	4.36	0.403	PG/G				
Total HxCDFs	55684941	33.8	4.36	0.351	PG/G				
Total PeCDDs	36088229	3.86	4.36	0.295	PG/G	А	J		
Total PeCDFs	30402154	11.1	4.36	0.208	PG/G				
Fotal TCDDs	41903575	0.366	0.872	0.245	PG/G	А	J		
Total TCDFs	30402143	4.08	0.872	0.36	PG/G				

Sample Name	HZBS0069S00)1	Matrix '	Гуре: 5	Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	G341-577-10B	Sample	e Date: 2	/25/2009	12:51:00 Pl	м	Validation Le	vel: V
Matrix Type: Soil								
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	5.88	4.26	0.552	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	1.32	4.26	0.288	PG/G	А	J	
1,2,3,4,7,8,9-HpCDF	55673897	0.406	4.26	0.406	PG/G	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.382	4.26	0.382	PG/G	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.239	4.26	0.239	PG/G	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.895	4.26	0.895	PG/G	EMPC	UJ	*III
1,2,3,6,7,8-HxCDF	57117449	0.271	4.26	0.22	PG/G	А	J	
1,2,3,7,8,9-HxCDD	19408743	0.912	4.26	0.385	PG/G	А	J	
1,2,3,7,8,9-HxCDF	72918219	0.295	4.26	0.295	PG/G	U	U	
1,2,3,7,8-PeCDD	40321764	0.312	4.26	0.312	PG/G	U	U	
1,2,3,7,8-PeCDF	57117416	0.214	4.26	0.214	PG/G	U	U	
2,3,4,6,7,8-HxCDF	60851345	0.233	4.26	0.233	PG/G	U	U	
2,3,4,7,8-PeCDF	57117314	0.229	4.26	0.187	PG/G	А	J	
2,3,7,8-TCDD	1746016	0.304	0.853	0.304	PG/G	U	U	
2,3,7,8-TCDF	51207319	0.443	0.853	0.378	PG/G	А	J	*Ш
OCDD	3268879	61.4	8.53	0.817	PG/G			
OCDF	39001020	3.28	8.53	0.712	PG/G	А	J	
Total HpCDDs	37871004	21.4	4.26	0.552	PG/G			
Total HpCDFs	38998753	4	4.26	0.342	PG/G	А	J	
Total HxCDDs	34465468	1.64	4.26	0.384	PG/G	А	J	
Total HxCDFs	55684941	2.13	4.26	0.245	PG/G	А	J	
Total PeCDDs	36088229	0.312	4.26	0.312	PG/G	U	U	
Total PeCDFs	30402154	0.551	4.26	0.201	PG/G	А	J	
Total TCDDs	41903575	0.304	0.853	0.304	PG/G	U	U	
Total TCDFs	30402143	0.837	0.853	0.378	PG/G	А	J	

Sample Name	HZBS0080S00	01	Matrix '	Гуре: З	Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	G341-577-11B	Sample	e Date: 2	/25/2009	10:02:00 A	м	alidation Le	vel: V
Matrix Type: Soil								
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	6.27	4.37	0.493	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	1.5	4.37	0.238	PG/G	А	J	
1,2,3,4,7,8,9-HpCDF	55673897	0.331	4.37	0.331	PG/G	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.329	4.37	0.329	PG/G	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.268	4.37	0.268	PG/G	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.482	4.37	0.325	PG/G	А	J	
1,2,3,6,7,8-HxCDF	57117449	0.25	4.37	0.25	PG/G	U	U	
1,2,3,7,8,9-HxCDD	19408743	0.405	4.37	0.329	PG/G	А	J	
1,2,3,7,8,9-HxCDF	72918219	0.325	4.37	0.325	PG/G	U	U	
1,2,3,7,8-PeCDD	40321764	0.316	4.37	0.316	PG/G	U	U	
1,2,3,7,8-PeCDF	57117416	0.193	4.37	0.193	PG/G	U	U	
2,3,4,6,7,8-HxCDF	60851345	0.258	4.37	0.258	PG/G	U	U	
2,3,4,7,8-PeCDF	57117314	0.255	4.37	0.191	PG/G	А	J	
2,3,7,8-TCDD	1746016	0.296	0.874	0.296	PG/G	U	U	
2,3,7,8-TCDF	51207319	0.502	0.874	0.502	PG/G	EMPC	UJ	*III
OCDD	3268879	49.2	8.74	0.785	PG/G			
OCDF	39001020	2.87	8.74	0.596	PG/G	А	J	
Total HpCDDs	37871004	19.6	4.37	0.493	PG/G			
Total HpCDFs	38998753	3.29	4.37	0.281	PG/G	А	J	
Total HxCDDs	34465468	2.88	4.37	0.328	PG/G	А	J	
Total HxCDFs	55684941	0.977	4.37	0.274	PG/G	А	J	
Total PeCDDs	36088229	0.316	4.37	0.316	PG/G	U	U	
Total PeCDFs	30402154	2.09	4.37	0.192	PG/G	А	J	
Total TCDDs	41903575	0.296	0.874	0.296	PG/G	U	U	
Total TCDFs	30402143	0.727	0.874	0.392	PG/G	А	J	

Sample Name	HZBS0082S00)1	Matrix '	Type: S	Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	G341-577-12B	Sample	e Date: 2	/25/2009	9:00:00 AM	í v	alidation Le	vel: V
Matrix Type: Soil								
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	5.65	4.34	0.494	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	3.71	4.34	0.284	PG/G	А	J	
1,2,3,4,7,8,9-HpCDF	55673897	0.406	4.34	0.406	PG/G	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.325	4.34	0.325	PG/G	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.648	4.34	0.262	PG/G	А	J	
1,2,3,6,7,8-HxCDD	57653857	0.49	4.34	0.338	PG/G	А	J	
1,2,3,6,7,8-HxCDF	57117449	0.525	4.34	0.254	PG/G	А	J	
1,2,3,7,8,9-HxCDD	19408743	0.341	4.34	0.341	PG/G	EMPC	UJ	*III
1,2,3,7,8,9-HxCDF	72918219	0.328	4.34	0.328	PG/G	U	U	
1,2,3,7,8-PeCDD	40321764	0.275	4.34	0.275	PG/G	U	U	
1,2,3,7,8-PeCDF	57117416	0.247	4.34	0.244	PG/G	А	J	
2,3,4,6,7,8-HxCDF	60851345	0.587	4.34	0.27	PG/G	А	J	
2,3,4,7,8-PeCDF	57117314	0.492	4.34	0.492	PG/G	EMPC	UJ	*III
2,3,7,8-TCDD	1746016	0.247	0.869	0.247	PG/G	U	U	
2,3,7,8-TCDF	51207319	0.563	0.869	0.52	PG/G	А	J	*III
OCDD	3268879	49.8	8.69	0.863	PG/G			
OCDF	39001020	4.87	8.69	0.608	PG/G	А	J	
Total HpCDDs	37871004	20.6	4.34	0.494	PG/G			
Total HpCDFs	38998753	5.61	4.34	0.339	PG/G			
Total HxCDDs	34465468	3.07	4.34	0.333	PG/G	А	J	
Total HxCDFs	55684941	5.17	4.34	0.277	PG/G			
Total PeCDDs	36088229	0.275	4.34	0.275	PG/G	U	U	
Total PeCDFs	30402154	4.17	4.34	0.243	PG/G	А	J	
Total TCDDs	41903575	0.247	0.869	0.247	PG/G	U	U	
Total TCDFs	30402143	0.563	0.869	0.52	PG/G	А	J	

Sample Name	HZBS0084S00)1	Matrix '	Type: S	Soil	Res	ult Type: Pr	imary Result
Lab Sample Name:	G341-577-13C	Sample	e Date: 2	/25/2009	8:40:00 AN	4 1	Validation Le	vel: V
Matrix Type: Soil								
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	5.53	4.38	0.504	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	1.42	4.38	0.298	PG/G	А	J	
1,2,3,4,7,8,9-HpCDF	55673897	0.441	4.38	0.441	PG/G	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.333	4.38	0.333	PG/G	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.268	4.38	0.268	PG/G	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.452	4.38	0.452	PG/G	EMPC	UJ	*III
1,2,3,6,7,8-HxCDF	57117449	0.256	4.38	0.256	PG/G	U	U	
1,2,3,7,8,9-HxCDD	19408743	0.379	4.38	0.327	PG/G	А	J	
1,2,3,7,8,9-HxCDF	72918219	0.326	4.38	0.326	PG/G	U	U	
1,2,3,7,8-PeCDD	40321764	0.341	4.38	0.341	PG/G	U	U	
1,2,3,7,8-PeCDF	57117416	0.158	4.38	0.158	PG/G	U	U	
2,3,4,6,7,8-HxCDF	60851345	0.257	4.38	0.257	PG/G	U	U	
2,3,4,7,8-PeCDF	57117314	0.333	4.38	0.167	PG/G	А	J	
2,3,7,8-TCDD	1746016	0.23	0.877	0.23	PG/G	U	U	
2,3,7,8-TCDF	51207319	0.531	0.877	0.389	PG/G	А	J	*III
OCDD	3268879	46.2	8.77	0.79	PG/G			
OCDF	39001020	2.73	8.77	0.597	PG/G	А	J	
Fotal HpCDDs	37871004	18.9	4.38	0.504	PG/G			
Total HpCDFs	38998753	2.74	4.38	0.363	PG/G	А	J	
Total HxCDDs	34465468	1.35	4.38	0.325	PG/G	А	J	
Total HxCDFs	55684941	1.83	4.38	0.275	PG/G	А	J	
Total PeCDDs	36088229	0.341	4.38	0.341	PG/G	U	U	
Total PeCDFs	30402154	2.72	4.38	0.196	PG/G	А	J	
Total TCDDs	41903575	0.23	0.877	0.23	PG/G	U	U	
Total TCDFs	30402143	1.97	0.877	0.389	PG/G			

Sample Name	Matrix 7	Гуре: 5	Soil	Result Type: Primary Result				
Lab Sample Name:	G341-577-3B	Sample	e Date: 4	/9/2009 8:	40:00 AM	v	Validation Le	vel: V
Matrix Type: Soil								
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	31.7	4.22	0.664	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	46.8	4.22	0.405	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	3.49	4.22	0.545	PG/G	А	J	
1,2,3,4,7,8-HxCDD	39227286	0.923	4.22	0.402	PG/G	А	J	
1,2,3,4,7,8-HxCDF	70648269	7.32	4.22	0.449	PG/G			
1,2,3,6,7,8-HxCDD	57653857	2.41	4.22	2.41	PG/G	EMPC	UJ	*III
1,2,3,6,7,8-HxCDF	57117449	5.4	4.22	0.41	PG/G			
1,2,3,7,8,9-HxCDD	19408743	1.75	4.22	0.401	PG/G	А	J	
1,2,3,7,8,9-HxCDF	72918219	1.59	4.22	0.565	PG/G	А	J	
1,2,3,7,8-PeCDD	40321764	0.633	4.22	0.282	PG/G	А	J	
1,2,3,7,8-PeCDF	57117416	2.1	4.22	0.348	PG/G	А	J	
2,3,4,6,7,8-HxCDF	60851345	7.07	4.22	0.449	PG/G			
2,3,4,7,8-PeCDF	57117314	3.91	4.22	0.323	PG/G	А	J	
2,3,7,8-TCDD	1746016	0.227	0.844	0.227	PG/G	U	U	
2,3,7,8-TCDF	51207319	1.28	0.843	0.516	PG/G			
OCDD	3268879	283	8.44	1.35	PG/G			
OCDF	39001020	51	8.44	0.721	PG/G			
Total HpCDDs	37871004	115	4.22	0.664	PG/G			
Total HpCDFs	38998753	67.4	4.22	0.468	PG/G			
Total HxCDDs	34465468	18.5	4.22	0.4	PG/G			
Total HxCDFs	55684941	56.9	4.22	0.465	PG/G			
Total PeCDDs	36088229	7.3	4.22	0.282	PG/G			
Total PeCDFs	30402154	38.1	4.22	0.335	PG/G			
Total TCDDs	41903575	0.668	0.844	0.227	PG/G	А	J	
Total TCDFs	30402143	19.9	0.844	0.314	PG/G			

Sample Name	HZBS0106S00	01	Matrix '	Гуре: 5	Soil	Result Type: Primary Result				
Lab Sample Name:	G341-577-4B	Sample	Date: 4	/9/2009 8	:20:00 AM	v	Validation Le	vel: V		
Matrix Type: Soil										
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
1,2,3,4,6,7,8-HpCDD	35822469	2.64	4.21	0.522	PG/G	А	J			
1,2,3,4,6,7,8-HpCDF	67562394	0.473	4.21	0.279	PG/G	А	J			
1,2,3,4,7,8,9-HpCDF	55673897	0.399	4.21	0.399	PG/G	U	U			
1,2,3,4,7,8-HxCDD	39227286	0.356	4.21	0.356	PG/G	U	U			
1,2,3,4,7,8-HxCDF	70648269	0.231	4.21	0.231	PG/G	U	U			
1,2,3,6,7,8-HxCDD	57653857	0.387	4.21	0.387	PG/G	U	U			
1,2,3,6,7,8-HxCDF	57117449	0.222	4.21	0.222	PG/G	U	U			
1,2,3,7,8,9-HxCDD	19408743	0.374	4.21	0.374	PG/G	U	U			
1,2,3,7,8,9-HxCDF	72918219	0.272	4.21	0.272	PG/G	U	U			
1,2,3,7,8-PeCDD	40321764	0.377	4.21	0.377	PG/G	U	U			
1,2,3,7,8-PeCDF	57117416	0.218	4.21	0.218	PG/G	U	U			
2,3,4,6,7,8-HxCDF	60851345	0.23	4.21	0.23	PG/G	U	U			
2,3,4,7,8-PeCDF	57117314	0.186	4.21	0.186	PG/G	U	U			
2,3,7,8-TCDD	1746016	0.263	0.841	0.263	PG/G	U	U			
2,3,7,8-TCDF	51207319	0.371	0.841	0.371	PG/G	U	U			
OCDD	3268879	14.4	8.41	1.01	PG/G					
OCDF	39001020	1.27	8.41	0.681	PG/G	А	J			
Total HpCDDs	37871004	9.36	4.21	0.522	PG/G					
Total HpCDFs	38998753	1.03	4.21	0.334	PG/G	А	J			
Total HxCDDs	34465468	1.56	4.21	0.373	PG/G	А	J			
Total HxCDFs	55684941	0.271	4.21	0.238	PG/G	А	J			
Total PeCDDs	36088229	0.377	4.21	0.377	PG/G	U	U			
Total PeCDFs	30402154	0.177	4.21	0.177	PG/G	U	U			
Total TCDDs	41903575	0.263	0.841	0.263	PG/G	U	U			
Total TCDFs	30402143	0.371	0.841	0.371	PG/G	U	U			

Sample Name	HZBS0106S00)2	Matrix 7	Гуре: 5	Result Type: Primary Result			
Lab Sample Name:	G341-577-5B	Sample	Date: 4	/9/2009 8	:30:00 AM	v	Validation Le	vel: V
Matrix Type: Soil								
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	0.514	4.33	0.496	PG/G	А	J	
1,2,3,4,6,7,8-HpCDF	67562394	0.312	4.33	0.312	PG/G	U	U	
1,2,3,4,7,8,9-HpCDF	55673897	0.428	4.33	0.428	PG/G	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.311	4.33	0.311	PG/G	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.22	4.33	0.22	PG/G	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.321	4.33	0.321	PG/G	U	U	
1,2,3,6,7,8-HxCDF	57117449	0.197	4.33	0.197	PG/G	U	U	
1,2,3,7,8,9-HxCDD	19408743	0.318	4.33	0.318	PG/G	U	U	
1,2,3,7,8,9-HxCDF	72918219	0.261	4.33	0.261	PG/G	U	U	
1,2,3,7,8-PeCDD	40321764	0.249	4.33	0.249	PG/G	U	U	
1,2,3,7,8-PeCDF	57117416	0.18	4.33	0.18	PG/G	U	U	
2,3,4,6,7,8-HxCDF	60851345	0.204	4.33	0.204	PG/G	U	U	
2,3,4,7,8-PeCDF	57117314	0.173	4.33	0.173	PG/G	U	U	
2,3,7,8-TCDD	1746016	0.266	0.866	0.266	PG/G	U	U	
2,3,7,8-TCDF	51207319	0.348	0.866	0.348	PG/G	U	U	
OCDD	3268879	3.58	8.66	1.04	PG/G	А	J	
OCDF	39001020	0.89	8.66	0.696	PG/G	А	J	
Total HpCDDs	37871004	1.48	4.33	0.496	PG/G	А	J	
Total HpCDFs	38998753	0.364	4.33	0.364	PG/G	U	U	
Total HxCDDs	34465468	0.317	4.33	0.317	PG/G	U	U	
Total HxCDFs	55684941	0.251	4.33	0.219	PG/G	А	J	
Total PeCDDs	36088229	0.249	4.33	0.249	PG/G	U	U	
Total PeCDFs	30402154	0.169	4.33	0.169	PG/G	U	U	
Total TCDDs	41903575	0.266	0.866	0.266	PG/G	U	U	
Total TCDFs	30402143	0.348	0.866	0.348	PG/G	U	U	

Sample Name	HZBS0107D0	BS0107D001 Matrix Type: Soil					Result Type: Primary Result			
Lab Sample Name:	G341-577-6B	Sample	e Date: 4	/9/2009		v	Validation Level: V			
Matrix Type: Soil										
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
1,2,3,4,6,7,8-HpCDD	35822469	205	4.31	0.882	PG/G					
1,2,3,4,6,7,8-HpCDF	67562394	27.4	4.31	0.296	PG/G					
1,2,3,4,7,8,9-HpCDF	55673897	1.66	4.31	0.436	PG/G	А	J			
1,2,3,4,7,8-HxCDD	39227286	2.29	4.31	0.288	PG/G	А	J			
1,2,3,4,7,8-HxCDF	70648269	2.01	4.31	0.315	PG/G	А	J			
1,2,3,6,7,8-HxCDD	57653857	7.66	4.31	0.285	PG/G					
1,2,3,6,7,8-HxCDF	57117449	1.23	4.31	0.297	PG/G	А	J			
1,2,3,7,8,9-HxCDD	19408743	4.84	4.31	0.288	PG/G					
1,2,3,7,8,9-HxCDF	72918219	0.828	4.31	0.397	PG/G	А	J			
1,2,3,7,8-PeCDD	40321764	1.11	4.31	0.28	PG/G	А	J			
1,2,3,7,8-PeCDF	57117416	0.688	4.31	0.193	PG/G	А	J			
2,3,4,6,7,8-HxCDF	60851345	1.6	4.31	0.309	PG/G	А	J			
2,3,4,7,8-PeCDF	57117314	1.26	4.31	0.203	PG/G	А	J			
2,3,7,8-TCDD	1746016	0.264	0.862	0.264	PG/G	U	U			
2,3,7,8-TCDF	51207319	0.723	0.862	0.346	PG/G	А	J	*III		
OCDD	3268879	2850	8.62	0.813	PG/G					
OCDF	39001020	102	8.62	0.57	PG/G					
Total HpCDDs	37871004	842	4.31	0.882	PG/G					
Total HpCDFs	38998753	83.2	4.31	0.36	PG/G					
Total HxCDDs	34465468	55.9	4.31	0.287	PG/G					
Total HxCDFs	55684941	36.3	4.31	0.327	PG/G					
Total PeCDDs	36088229	5.31	4.31	0.28	PG/G					
Total PeCDFs	30402154	12.2	4.31	0.198	PG/G					
Total TCDDs	41903575	0.486	0.862	0.264	PG/G	А	J			
Total TCDFs	30402143	3.94	0.862	0.346	PG/G					

Sample Name	HZBS0107S001 Matrix Type: Soil					Result Type: Primary Result				
Lab Sample Name:	G341-577-7B	Sample	Sample Date: 4/9/2009 8:10:00 AM				Validation Level: V			
Matrix Type: Soil										
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
1,2,3,4,6,7,8-HpCDD	35822469	227	4.2	0.668	PG/G					
1,2,3,4,6,7,8-HpCDF	67562394	29.4	4.2	0.403	PG/G					
1,2,3,4,7,8,9-HpCDF	55673897	1.62	4.2	0.567	PG/G	А	J			
1,2,3,4,7,8-HxCDD	39227286	2.33	4.2	0.402	PG/G	А	J			
1,2,3,4,7,8-HxCDF	70648269	2.11	4.2	0.402	PG/G	А	J			
1,2,3,6,7,8-HxCDD	57653857	8.03	4.2	0.427	PG/G					
1,2,3,6,7,8-HxCDF	57117449	1.19	4.2	0.354	PG/G	А	J			
1,2,3,7,8,9-HxCDD	19408743	4.99	4.2	0.418	PG/G					
1,2,3,7,8,9-HxCDF	72918219	0.86	4.2	0.481	PG/G	А	J			
1,2,3,7,8-PeCDD	40321764	1.18	4.2	0.292	PG/G	А	J			
1,2,3,7,8-PeCDF	57117416	0.734	4.2	0.26	PG/G	А	J			
2,3,4,6,7,8-HxCDF	60851345	1.66	4.2	0.379	PG/G	А	J			
2,3,4,7,8-PeCDF	57117314	1.4	4.2	0.244	PG/G	А	J			
2,3,7,8-TCDD	1746016	0.275	0.84	0.275	PG/G	U	U			
2,3,7,8-TCDF	51207319	0.783	0.84	0.25	PG/G	А	J	*III		
OCDD	3268879	3060	8.4	0.779	PG/G					
OCDF	39001020	103	8.4	0.589	PG/G					
Total HpCDDs	37871004	919	4.2	0.668	PG/G					
Total HpCDFs	38998753	90.1	4.2	0.477	PG/G					
Total HxCDDs	34465468	59.3	4.2	0.416	PG/G					
Total HxCDFs	55684941	39.9	4.2	0.401	PG/G					
Total PeCDDs	36088229	5.65	4.2	0.292	PG/G					
Total PeCDFs	30402154	13.8	4.2	0.252	PG/G					
Total TCDDs	41903575	0.539	0.84	0.275	PG/G	А	J			
Total TCDFs	30402143	4.16	0.84	0.409	PG/G					

Sample Name	CNBS0131S001 Matrix Type: SOIL			Result Type: Primary Result					
Lab Sample Name:	227874001	Sample Date: 4/9/2009 2:35:00 PM			35:00 PM	Validation Level: V			
Matrix Type: SOIL									
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Copper	7440508	9.29	0.206	0.0413	mg/kg				
Lead	7439921	35.1	0.402	0.101	mg/kg				
Sample Name	EBQW2207		Matrix 7	Гуре: ^V	VATER	Result Type: Primary Result			
Lab Sample Name:	227874002	Sample Date: 4/9/2009 9:40:00 AM		Validation Level: V					
Matrix Type: WATE	ER								
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Copper	7440508	0.73	1	0.3	ug/L	J	J		
Lead	7439921	0.5	2	0.5	ug/L	U	U		
Sample Name	HZBS0062S001 Matrix Type: SOIL					Result Type: Primary Result			
Lab Sample Name:	227874008 Sample Date: 2/24/2009 11:01:00 A				M Validation Level: V				
Matrix Type: SOIL									
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Copper	7440508	12.3	0.216	0.0433	mg/kg				
Sample Name	HZBS0069S001		Matrix Type: SOIL			Result Type: Primary Result			
Lab Sample Name:	227874009	Sampl	e Date: 2	/25/2009 1	2:51:00 PI	м у	alidation Le	vel: V	
Matrix Type: SOIL									
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Copper	7440508	6.32	0.203	0.0407	mg/kg				
Sample Name	HZBS0080S001 Matrix Type: SOIL					Result Type: Primary Result			
Lab Sample Name:	227874010 Sample Date: 2/25/2009 10:02:00 A					M Validation Level: V			
Matrix Type: SOIL									
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Copper	7440508	0.404	0.226	0.0451	mg/kg				

Analysis Method 6020

Sample Name	HZBS0082S001 Matrix Type: SOIL			SOIL	Result Type: Primary Result				
Lab Sample Name: Matrix Type: SOIL	227874011	Sampl	e Date: 2	/25/2009 9):00:00 AM	N N	evel: V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Copper	7440508	0.328	0.328	0.328	mg/kg		U	B, RL changed from 0.224 and MDL from 0.0449	
Sample Name	HZBS0084S001	HZBS0084S001 Matrix Type: SOIL				Result Type: Primary Result			
Lab Sample Name: Matrix Type: SOIL	227874012	Sampl	e Date: 2	/25/2009	8:40:00 AM Validation Level: V				
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
Copper	7440508	1.32	0.226	0.0453	mg/kg				

Analysis Method 6020