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ecology and environment, inc.
Global Environmental Specialists
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: August 29, 2012

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

TO: Jeff Fetters, START-3 Project Manager, Seattle, Washington

SUBJ: **Organic Data Summary Check,**
Fourth Avenue and Gamble Parking Lot Site, Anchorage, Alaska

REF: TDD: 12-01-0004 PAN: 002233.0757.01SI

The data summary check of 20 soil samples collected from the Fourth Avenue and Gamble Parking Lot site located in Anchorage, Alaska, has been completed. Analyses for Volatile Organic Compounds (VOCs) were performed by Liberty Analytical Corporation, Cary, North Carolina.

The samples were numbered:

JRZ10	JRZG1	JRZG2	JRZG3	JRZG4	JRZG5
JRZG6	JRZG7	JRZG8	JRZG9	JRZH0	JRZH1
JRZH2	JRZH3	JRZH4	JRZH5	JRZH6	JRZH7
JRZH8	JRZH9				

No discrepancies were noted.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

August 28, 2012

Reply to: Donald M. Brown
Attn of: OEA-095

MEMORANDUM

Subject: Data Validation Report for the Volatile Analysis of the Soil Samples Collected for the Fourth Avenue & Gambell Parking Lot Site Inspection - Case Number 42677, SDG JRZ10

From: Donald M. Brown, QA Chemist DMB
USEPA Region 10, Office of Environmental Assessment, Environmental Services Unit

To: Brandon Perkins, Site Assessment Manager
USEPA Region 10, Office of Environmental Cleanup

CC: Renee Nordeen, Ecology & Environment, Inc.

The quality assurance (QA) review of the analytical data generated from the analysis of twenty (20) soil samples collected from the above referenced site has been completed. These samples were analyzed for Volatile Organic Compounds (VOCs) by Liberty Analytical Corporation located in Cary, North Carolina.

All sample analyses were evaluated following EPA's Stage 4 Data Validation Electronic/Manual Process (S4VEM). The validation was conducted and appropriate qualifiers were applied according to the Quality Control Specifications outlined in the Sampling and Quality Assurance Plan for the Fourth Avenue and Gambell Parking Lot site (June 2012); the technical specifications of the EPA Contract Laboratory Program's (CLP) Statement of Work (SOW) for Multi-Media, Multi-Concentration Organic Analyses (SOM01.2); the Contract Laboratory Program's National Functional Guidelines for Organic Data Review; and the Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use (EPA-540-R08-005). Some of the data quality elements were qualified using the reviewer's professional judgment. The conclusions presented herein are based on the information provided for the review.

A summary of samples evaluated in this validation report and the pertinent dates for sample collection, sample receipt at the laboratory, extraction, and analyses is attached along with the validated data.

The laboratory analyzed sample JRZG8 as a medium level solid only. Results for this sample are reported from the medium level analysis and the reporting limits are elevated.

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Samples JRZG3 and JRZG6 were reanalyzed as medium level solids to bring the concentration of volatile compound tetrachloroethene within the linear range of the instrument. Results for this compound in these samples are reported from the medium level analyses and the reporting limits are elevated.

I. QUALITY CONTROL RESULTS SUMMARY

Volatile Organic Analysis		
Quality Control Test	**Outliers?**	**Evaluation Criteria**
Blanks	Y*	Non-detect or < 5X Blank†
Initial Calibration	Y*	RRF < 0.05 or ≤ 30% RSD
Continuing Calibration Verification	Y*	RRF < 0.05 or Open: ≤ 25% D, Close: ≤ 50% D
Deuterated Monitoring Compounds	Y*	Varies by Compound
Internal Standards	N	50 – 200% of 12-hour standard

*See the Manual/Electronic Data Review Results section below for outliers and qualification of affected data.
†10X Blank for ketones or solvents.
(Note: RRF = Relative Response Factor, RSD = Relative Standard Deviation, D = Difference)

II. DATA QUALIFICATIONS

Summary of Validation Qualifiers Applied:

Data qualifications applied after the manual and electronic data review can be found in the attached "Manual/Electronic Data Review Results" section of this report.

Data Qualifiers

The following is a list of validation qualifiers applied to the sample result(s) when needed to indicate associated out-of-control QA/QC results.

Data Qualifiers		
	U	The analyte was not detected at or above the reported result.
	J	The analyte was positively identified. The associated numerical result is an estimate.
	UJ	The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
	R	The data are unusable for all purposes.
	N	There is evidence the analyte is present in this sample.
	JN	There is evidence that the analyte is present. The associated numerical result is an estimate.

For site assessment and investigations, the following bias qualifiers are applied to the data in addition to the above data qualifiers when necessary to allow for data analysis and interpretation using Pre-Score software calculations for National Priority Listing Hazard Rankling Scoring (NPL-HRS).

Bias Qualifiers		
	L	Low bias.
	H	High bias.
	Q	The result is estimated because the concentration is below the Contract Required Quantitation Limits (CRQLs).
	K	Unknown bias.

Attachments:
Sample Summary Report
Manual/Electronic Data Review Results
Analytical Sample Listing (Report #6)

Sample Summary Report

Case No:	42677	Contract:	EPW11032	SDG No:	JRZ10	Lab Code:	LIBRTY
Sample Number:	JRZ10	Method:	VOA_Low_Med	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	12294648	pH:		Sample Date:	07162012	Sample Time:	13:13:00
% Moisture :	16.02			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.2	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromomethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	17	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.2	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.2	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Methylcyclohexane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichloromethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	0.58	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	2.5	ug/kg	1.0	J	JQ	Yes	S4VEM
2-Hexanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZ10MS	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date: 07162012	Sample Time: 13:13:00
% Moisture : 16.02		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	63	ug/kg	1.0			Yes	S4VEM
Chloromethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	66	ug/kg	1.0			Yes	S4VEM
Vinyl chloride	6.0	ug/kg	1.0	U	UJ	Yes	S4VEM
Trichloroethene	62	ug/kg	1.0			Yes	S4VEM
Bromomethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	69	ug/kg	1.0			Yes	S4VEM
Chlorobenzene	63	ug/kg	1.0			Yes	S4VEM
Chloroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	12	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	6.0	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	3.2	ug/kg	1.0	J	J	Yes	S4VEM
Bromochloromet hane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	6.0	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	120	ug/kg	1.0	U	R	Yes	S4VEM
Methylcyclohexa ne	6.0	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichloromethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	12	ug/kg	1.0	U	U	Yes	S4VEM
trans-1,3-Dichloropropene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	2.8	ug/kg	1.0	J	J	Yes	S4VEM
2-Hexanone	12	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZ10MSD	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date: 07162012	Sample Time: 13:13:00
% Moisture : 16.02		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1-Dichloroethene	58	ug/kg	1.0			Yes	S4VEM
Dichlorodifluoromethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	63	ug/kg	1.0			Yes	S4VEM
Vinyl chloride	6.0	ug/kg	1.0	U	UJ	Yes	S4VEM
Trichloroethene	61	ug/kg	1.0			Yes	S4VEM
Bromomethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	65	ug/kg	1.0			Yes	S4VEM
Chloroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	60	ug/kg	1.0			Yes	S4VEM
Trichlorofluoromethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	12	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	6.0	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	12	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	6.0	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	120	ug/kg	1.0	U	R	Yes	S4VEM
Methylcyclohexane	6.0	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichloromethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	12	ug/kg	1.0	U	U	Yes	S4VEM
trans-1,3-Dichloropropene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	4.4	ug/kg	1.0	J	J	Yes	S4VEM
2-Hexanone	12	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	6.0	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	6.0	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZG1	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284766	pH:	Sample Date: 07132012	Sample Time: 12:12:00
% Moisture : 19.22		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromomethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	17	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	9.2	ug/kg	1.0	B	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.4	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.4	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	1.3	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
2-Hexanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZG2	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284767	pH:	Sample Date: 07132012	Sample Time: 12:41:00
% Moisture : 14.90		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	18	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	9.5	ug/kg	1.0	B	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.7	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.7	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	0.78	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
2-Hexanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.7	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	5.7	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZG3	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284779	pH:	Sample Date: 07142012	Sample Time: 08:23:00
% Moisture : 19.15		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	7.1	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	7.1	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	7.1	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	7.1	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1-Dichloroethene	7.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Acetone	19	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	7.1	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Methylene chloride	11	ug/kg	1.0	B	U	Yes	S4VEM
trans-1,2-Dichloroethene	7.1	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1-Dichloroethane	7.1	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	7.1	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	14	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	7.1	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	7.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Cyclohexane	7.1	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Benzene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichloroethane	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,4-Dioxane	140	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	0.62	ug/kg	1.0	J	JQ	Yes	S4VEM
Methylcyclohexa ne	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichloropropane	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromodichlorom	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
cis-1,3-Dichloropropene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
4-Methyl-2-pentanone	14	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	3.0	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2-Trichloroethane	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Tetrachloroethene	460	ug/kg	1.0	E	R	No	S4VEM
2-Hexanone	14	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	7.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Chlorobenzene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Ethylbenzene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
o-Xylene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
m,p-Xylene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Styrene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromoform	7.1	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2,2-Tetrachloroethane	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,3-Dichlorobenzene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,4-Dichlorobenzene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichlorobenzene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dibromo-3-chloropropane	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,4-Trichlorobenzene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	7.1	ug/kg	1.0	U	UJK	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZG3ME	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284779	pH:	Sample Date: 07142012	Sample Time: 08:23:00
% Moisture : 19.15		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	310	ug/kg	1.0	U	R	No	S4VEM
Chloromethane	310	ug/kg	1.0	U	R	No	S4VEM
Vinyl chloride	310	ug/kg	1.0	U	R	No	S4VEM
Bromomethane	310	ug/kg	1.0	U	R	No	S4VEM
Chloroethane	310	ug/kg	1.0	U	R	No	S4VEM
Trichlorofluorom ethane	310	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethene	310	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	310	ug/kg	1.0	U	R	No	S4VEM
Acetone	620	ug/kg	1.0	JB	R	No	S4VEM
Carbon Disulfide	310	ug/kg	1.0	U	R	No	S4VEM
Methyl acetate	310	ug/kg	1.0	U	R	No	S4VEM
Methylene chloride	160	ug/kg	1.0	J	R	No	S4VEM
trans-1,2-Dichloroethene	310	ug/kg	1.0	U	R	No	S4VEM
Methyl tert-butyl ether	310	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethane	310	ug/kg	1.0	U	R	No	S4VEM
cis-1,2-Dichloroethene	310	ug/kg	1.0	U	R	No	S4VEM
2-Butanone	620	ug/kg	1.0	U	R	No	S4VEM
Bromochloromet hane	310	ug/kg	1.0	U	R	No	S4VEM
Chloroform	310	ug/kg	1.0	U	R	No	S4VEM
1,1,1-Trichloroethane	310	ug/kg	1.0	U	R	No	S4VEM
Cyclohexane	310	ug/kg	1.0	U	R	No	S4VEM
Carbon tetrachloride	310	ug/kg	1.0	U	R	No	S4VEM
Benzene	310	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloroethane	310	ug/kg	1.0	U	R	No	S4VEM
1,4-Dioxane	6200	ug/kg	1.0	U	R	No	S4VEM
Trichloroethene	310	ug/kg	1.0	U	R	No	S4VEM
Methylcyclohexa ne	310	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloropropane	310	ug/kg	1.0	U	R	No	S4VEM
Bromodichlorom	310	ug/kg	1.0	U	R	No	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	310	ug/kg	1.0	U	R	No	S4VEM
cis-1,3-Dichloropropene	310	ug/kg	1.0	U	R	No	S4VEM
4-Methyl-2-pentanone	620	ug/kg	1.0	U	R	No	S4VEM
Toluene	310	ug/kg	1.0	U	R	No	S4VEM
trans-1,3-Dichloropropene	310	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloroethane	310	ug/kg	1.0	U	R	No	S4VEM
Tetrachloroethene	210	ug/kg	1.0	J	JQ	Yes	S4VEM
2-Hexanone	620	ug/kg	1.0	U	R	No	S4VEM
Dibromochloromethane	310	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromoethane	310	ug/kg	1.0	U	R	No	S4VEM
Chlorobenzene	310	ug/kg	1.0	U	R	No	S4VEM
Ethylbenzene	310	ug/kg	1.0	U	R	No	S4VEM
o-Xylene	310	ug/kg	1.0	U	R	No	S4VEM
m,p-Xylene	310	ug/kg	1.0	U	R	No	S4VEM
Styrene	310	ug/kg	1.0	U	R	No	S4VEM
Bromoform	310	ug/kg	1.0	U	R	No	S4VEM
Isopropylbenzene	310	ug/kg	1.0	U	R	No	S4VEM
1,1,2,2-Tetrachloroethane	310	ug/kg	1.0	U	R	No	S4VEM
1,3-Dichlorobenzene	310	ug/kg	1.0	U	R	No	S4VEM
1,4-Dichlorobenzene	310	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichlorobenzene	310	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromo-3-chloropropane	310	ug/kg	1.0	U	R	No	S4VEM
1,2,4-Trichlorobenzene	310	ug/kg	1.0	U	R	No	S4VEM
1,2,3-Trichlorobenzene	310	ug/kg	1.0	U	R	No	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZG4	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284780	pH:	Sample Date: 07142012	Sample Time: 08:34:00
% Moisture : 2.98		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.5	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	12	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.5	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.5	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.5	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	0.62	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	11	ug/kg	1.0			Yes	S4VEM
2-Hexanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.5	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.5	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.5	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	5.5	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZG5	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284781	pH:	Sample Date: 07142012	Sample Time: 08:37:00
% Moisture : 2.46		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	11	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.0	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.0	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.0	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	0.62	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	16	ug/kg	1.0			Yes	S4VEM
2-Hexanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZG6	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284782	pH:	Sample Date: 07142012	Sample Time: 08:43:00
% Moisture : 1.64		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	15	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.0	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	9.9	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.0	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	99	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichloropropane	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromodichlorom	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
cis-1,3-Dichloropropene	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
4-Methyl-2-pentanone	9.9	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	4.2	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2-Trichloroethane	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
Tetrachloroethene	400	ug/kg	1.0	E	R	No	S4VEM
2-Hexanone	9.9	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
Ethylbenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
1,4-Dichlorobenzene	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichlorobenzene	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZG6ME	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284782	pH:	Sample Date: 07142012	Sample Time: 08:43:00
% Moisture : 1.64		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	240	ug/kg	1.0	U	R	No	S4VEM
Chloromethane	240	ug/kg	1.0	U	R	No	S4VEM
Vinyl chloride	240	ug/kg	1.0	U	R	No	S4VEM
Bromomethane	240	ug/kg	1.0	U	R	No	S4VEM
Chloroethane	240	ug/kg	1.0	U	R	No	S4VEM
Trichlorofluorom ethane	240	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethene	240	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	240	ug/kg	1.0	U	R	No	S4VEM
Acetone	480	ug/kg	1.0	JB	R	No	S4VEM
Carbon Disulfide	240	ug/kg	1.0	U	R	No	S4VEM
Methyl acetate	240	ug/kg	1.0	U	R	No	S4VEM
Methylene chloride	110	ug/kg	1.0	J	R	No	S4VEM
trans-1,2-Dichloroethene	240	ug/kg	1.0	U	R	No	S4VEM
Methyl tert-butyl ether	240	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethane	240	ug/kg	1.0	U	R	No	S4VEM
cis-1,2-Dichloroethene	240	ug/kg	1.0	U	R	No	S4VEM
2-Butanone	100	ug/kg	1.0	J	R	No	S4VEM
Bromochloromet hane	240	ug/kg	1.0	U	R	No	S4VEM
Chloroform	240	ug/kg	1.0	U	R	No	S4VEM
1,1,1-Trichloroethane	240	ug/kg	1.0	U	R	No	S4VEM
Cyclohexane	240	ug/kg	1.0	U	R	No	S4VEM
Carbon tetrachloride	240	ug/kg	1.0	U	R	No	S4VEM
Benzene	240	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloroethane	240	ug/kg	1.0	U	R	No	S4VEM
1,4-Dioxane	4800	ug/kg	1.0	U	R	No	S4VEM
Trichloroethene	240	ug/kg	1.0	U	R	No	S4VEM
Methylcyclohexa ne	240	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloropropane	240	ug/kg	1.0	U	R	No	S4VEM
Bromodichlorom	240	ug/kg	1.0	U	R	No	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	240	ug/kg	1.0	U	R	No	S4VEM
cis-1,3-Dichloropropene	240	ug/kg	1.0	U	R	No	S4VEM
4-Methyl-2-pentanone	480	ug/kg	1.0	U	R	No	S4VEM
Toluene	240	ug/kg	1.0	U	R	No	S4VEM
trans-1,3-Dichloropropene	240	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloroethane	240	ug/kg	1.0	U	R	No	S4VEM
Tetrachloroethene	490	ug/kg	1.0		JK	Yes	S4VEM
2-Hexanone	480	ug/kg	1.0	U	R	No	S4VEM
Dibromochloromethane	240	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromoethane	240	ug/kg	1.0	U	R	No	S4VEM
Chlorobenzene	240	ug/kg	1.0	U	R	No	S4VEM
Ethylbenzene	240	ug/kg	1.0	U	R	No	S4VEM
o-Xylene	240	ug/kg	1.0	U	R	No	S4VEM
m,p-Xylene	240	ug/kg	1.0	U	R	No	S4VEM
Styrene	240	ug/kg	1.0	U	R	No	S4VEM
Bromoform	240	ug/kg	1.0	U	R	No	S4VEM
Isopropylbenzene	240	ug/kg	1.0	U	R	No	S4VEM
1,1,2,2-Tetrachloroethane	240	ug/kg	1.0	U	R	No	S4VEM
1,3-Dichlorobenzene	240	ug/kg	1.0	U	R	No	S4VEM
1,4-Dichlorobenzene	240	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichlorobenzene	240	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromo-3-chloropropane	240	ug/kg	1.0	U	R	No	S4VEM
1,2,4-Trichlorobenzene	240	ug/kg	1.0	U	R	No	S4VEM
1,2,3-Trichlorobenzene	240	ug/kg	1.0	U	R	No	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZG7	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284783	pH:	Sample Date: 07142012	Sample Time: 08:55:00
% Moisture : 3.26		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromomethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	14	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.1	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.1	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.1	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
trans-1,3-Dichloropropene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	9.4	ug/kg	1.0			Yes	S4VEM
2-Hexanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.1	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	5.1	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZG8	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284784	pH:	Sample Date: 07142012	Sample Time: 09:09:00
% Moisture : 1.94		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	260	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	260	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	260	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	260	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	260	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	260	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	260	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	260	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	520	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon Disulfide	260	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	260	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	130	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,2-Dichloroethene	260	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	260	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	260	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	260	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	520	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	260	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	260	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	260	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	260	ug/kg	1.0	U	UJK	Yes	S4VEM
Carbon tetrachloride	260	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	260	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	260	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	5200	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	260	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	260	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichloropropane	260	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	260	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	260	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	260	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	520	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	260	ug/kg	1.0	U	U	Yes	S4VEM
trans-1,3-Dichloropropene	260	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	260	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	960	ug/kg	1.0		JK	Yes	S4VEM
2-Hexanone	520	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	260	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	260	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	260	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	260	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	260	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	260	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	260	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	260	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	260	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	260	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	260	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	260	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	260	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	260	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	260	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	260	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZG9	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284785	pH:	Sample Date: 07142012	Sample Time: 09:18:00
% Moisture : 1.94		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.3	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromomethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	14	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.3	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.3	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.3	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	0.56	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	13	ug/kg	1.0			Yes	S4VEM
2-Hexanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZH0	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284786	pH:	Sample Date: 07142012	Sample Time: 09:24:00
% Moisture : 2.75		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.6	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromomethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	15	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.6	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.6	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.6	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	1.2	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	34	ug/kg	1.0			Yes	S4VEM
2-Hexanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZH1	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284787	pH:	Sample Date: 07142012	Sample Time: 09:35:00
% Moisture : 15.44		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.2	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	14	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.2	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.2	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.2	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	0.71	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	0.78	ug/kg	1.0	J	JQ	Yes	S4VEM
2-Hexanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.2	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZH2	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284788	pH:	Sample Date: 07142012	Sample Time: 10:08:00
% Moisture : 14.71		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	8.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	29	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	8.4	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	17	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	8.4	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	170	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	8.4	ug/kg	1.0	U	[illegible]	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	17	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	1.5	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	0.94	ug/kg	1.0	J	JQ	Yes	S4VEM
2-Hexanone	17	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	8.4	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	8.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	8.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	8.4	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZH3	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284789	pH:	Sample Date: 07142012	Sample Time: 10:58:00
% Moisture : 2.84		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.2	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	18	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.2	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.2	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.2	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	0.62	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
2-Hexanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.2	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZH4	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284790	pH:	Sample Date: 07142012	Sample Time: 11:05:00
% Moisture : 2.93		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	16	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.0	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.0	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.0	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
4-Methyl-2-pentanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	0.77	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2-Trichloroethane	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
Tetrachloroethene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
2-Hexanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.0	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZH5	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284791	pH:	Sample Date: 07142012	Sample Time: 11:10:00
% Moisture : 3.64		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	16	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.4	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.4	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.4	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	0.70	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
2-Hexanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.4	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.4	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZH6	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284792	pH:	Sample Date: 07142012	Sample Time: 11:13:00
% Moisture : 5.46		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.3	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromomethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	13	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.3	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.3	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.3	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
trans-1,3-Dichloropropene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
2-Hexanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.3	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	5.3	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZH7	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284793	pH:	Sample Date: 07142012	Sample Time: 11:21:00
% Moisture : 4.76		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.2	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromomethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	14	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.2	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.2	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.2	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
trans-1,3-Dichloropropene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
2-Hexanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.2	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	5.2	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZH8	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284794	pH:	Sample Date: 07142012	Sample Time: 11:28:00
% Moisture : 8.01		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.6	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	12	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	5.6	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	5.6	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	5.6	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	0.54	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	3.1	ug/kg	1.0	J	JQ	Yes	S4VEM
2-Hexanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	5.6	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	5.6	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ10	Lab Code: LIBRTY
Sample Number: JRZH9	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284795	pH:	Sample Date: 07142012	Sample Time: 11:40:00
% Moisture : 2.49		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	10	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	10	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	10	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromomethane	10	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	10	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	10	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	10	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	10	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	26	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	10	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	10	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	10	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	10	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	10	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	10	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	10	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	20	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	10	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	10	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	10	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	10	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	10	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	10	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	10	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	200	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	10	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	10	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	10	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	10	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	10	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	10	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	20	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	1.3	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	10	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	10	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	2.0	ug/kg	1.0	J	JQ	Yes	S4VEM
2-Hexanone	20	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	10	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	10	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	10	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	10	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	10	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	10	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	10	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	10	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	10	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	10	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	10	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	10	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	10	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	10	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	10	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	10	ug/kg	1.0	U	U	Yes	S4VEM