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MEMORANDUM

DATE: September 12, 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:

JRZ04	JRZ09	JRZ11	JRZ12	JRZ13	JRZ14
JRZ15	JRZ32	JRZ34	JRZ35	JRZ36	JRZ37
JRZA0	JRZA1	JRZA2	JRZA3	JRZA4	JRZA5
JRZA6	JRZA7				

No discrepancies were noted.

The toluene result in sample JRZ35 was qualified as an estimated quantity with a high bias (JH) based on associated trip blank results. Other positive sample results less than the Contract Required Quantitation Limit (CRQL) were not additionally qualified based on field blank results.

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

September 12, 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 JRZ04

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.

Sample JRZ14 was reanalyzed as a medium level solid to bring the concentration of volatile compound methylcyclohexane within the linear range of the instrument. The result for this compound in this sample is reported from the medium level analysis and the reporting limit is elevated.

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Samples JRZ32 and JRZA6 were reanalyzed as medium level solids to bring the concentration of volatile compound tetrachloroethene within the linear range of the instrument. However, the medium level results for this compound were non-detected, which the laboratory attributed to the inhomogeneity of the samples. Therefore, results for this compound in these samples are reported from the initial analysis and are considered estimated and thus qualified "JK".

Samples JRZ35, JRZ37, JRZA4, and JRZA5 were reanalyzed due to several QC failures; however, the reanalysis of samples JRZ35 and JRZ37 had more QC failures than the parent sample. Therefore, only samples JRZA4 and JRZA5 are reported from the reanalyses.

Samples JRZA1, JRZA2, JRZA3, JRZA4, JRZA5, and JRZA6 were associated with an opening and closing continuing calibration verification not analyzed at the correct frequency (i.e., outside the 12-hour analysis period). Since samples JRZA4 and JRZA5 were reanalyzed due to other laboratory QC failures, only samples JRZA1, JRZA2, JRZA3, and JRZA6 were affected. Detected results in these samples are considered estimated and qualified "JK" and non-detected results are rejected and qualified "R".

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	Y*	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:	JRZ04	Lab Code:	LIBRTY
Sample Number:	JRZ04	Method:	VOA_Low_Med	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	12294642	pH:		Sample Date:	07162012	Sample Time:	12:31:00
% Moisture :	12.02			% 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	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	11	ug/kg	1.0	J	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	U	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

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Methylcyclohexane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	5.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichloromethane	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	5.6	ug/kg	1.0	JB	U	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	5.6	ug/kg	1.0	U	U	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	JB	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ04MS	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date: 07162012	Sample Time: 12:31:00
% Moisture : 12.02		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1-Dichloroethene	63	ug/kg	1.0			Yes	S4VEM
Dichlorodifluoromethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	65	ug/kg	1.0			Yes	S4VEM
Chloromethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Trichloroethene	65	ug/kg	1.0			Yes	S4VEM
Bromomethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	66	ug/kg	1.0	B		Yes	S4VEM
Chloroethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	61	ug/kg	1.0			Yes	S4VEM
Trichlorofluoromethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	12	ug/kg	1.0		U	Yes	S4VEM
Carbon Disulfide	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	6.1	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	6.1	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	12	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Carbon tetrachloride	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	120	ug/kg	1.0	U	R	Yes	S4VEM
Methylcyclohexane	6.1	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichloromethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	6.1	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	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	6.1	ug/kg	1.0	U	U	Yes	S4VEM
2-Hexanone	12	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	6.1	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	6.1	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	6.1	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	6.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	6.1	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ04MSD	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date: 07162012	Sample Time: 12:31:00
% Moisture : 12.02		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1-Dichloroethene	51	ug/kg	1.0			Yes	S4VEM
Dichlorodifluoromethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	52	ug/kg	1.0			Yes	S4VEM
Chloromethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Trichloroethene	52	ug/kg	1.0			Yes	S4VEM
Vinyl chloride	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	52	ug/kg	1.0	B		Yes	S4VEM
Bromomethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	50	ug/kg	1.0			Yes	S4VEM
Trichlorofluoromethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	9.6	ug/kg	1.0		U	Yes	S4VEM
Carbon Disulfide	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	4.8	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	9.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Carbon tetrachloride	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	96	ug/kg	1.0	U	R	Yes	S4VEM
Methylcyclohexane	4.8	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichloromethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	9.6	ug/kg	1.0	U	U	Yes	S4VEM
trans-1,3-Dichloropropene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
2-Hexanone	9.6	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	4.8	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	4.8	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	4.8	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ09	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12294647	pH:	Sample Date: 07162012	Sample Time: 13:05:00
% Moisture : 5.60		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.4	ug/kg	1.0	U	U	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	17	ug/kg	1.0		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	U	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	5.4	ug/kg	1.0	JB	U	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	4.1	ug/kg	1.0	J	JQ	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	U	Yes	S4VEM
1,2,3-Trichlorobenzene	5.4	ug/kg	1.0	U	U	Yes	S4VEM
.alpha.-Methylstyrene	8.1	ug/kg	1.0	JN	JN	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ11	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12294649	pH:	Sample Date: 07162012	Sample Time: 13:24:00
% Moisture : 8.74		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	14	ug/kg	1.0		U	Yes	S4VEM
Carbon Disulfide	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	4.6	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	9.3	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Carbon tetrachloride	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	93	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	1.7	ug/kg	1.0	J	JQ	Yes	S4VEM
Methylcyclohexa ne	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	4.6	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	9.3	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	4.6	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,3-Dichloropropene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	150	ug/kg	1.0			Yes	S4VEM
2-Hexanone	9.3	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
.alpha.-Methylstyrene(1)	22	ug/kg	1.0	JN	JN	Yes	S4VEM
.alpha.-Methylstyrene	6.4	ug/kg	1.0	JN	JN	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ12	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12294650	pH:	Sample Date: 07162012	Sample Time: 14:44:00
% Moisture : 5.26		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	89	ug/kg	1.0		U	Yes	S4VEM
Carbon Disulfide	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	4.7	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	6.4	ug/kg	1.0	J	JQ	Yes	S4VEM
Bromochloromet hane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Carbon tetrachloride	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	93	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	4.7	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	9.3	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	4.7	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,3-Dichloropropene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	2.0	ug/kg	1.0	J	JQ	Yes	S4VEM
2-Hexanone	9.3	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	4.7	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	4.7	ug/kg	1.0	U	U	Yes	S4VEM
alpha.-Methylstyrene	6.6	ug/kg	1.0	JN	JN	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ13	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12294651	pH:	Sample Date: 07162012	Sample Time: 14:50:00
% Moisture : 3.80		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/kg	1.0	U	U	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	53	ug/kg	1.0		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	3.5	ug/kg	1.0	J	JQ	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	U	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	5.0	ug/kg	1.0	JB	U	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	2.3	ug/kg	1.0	J	JQ	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	U	Yes	S4VEM
1,2,3-Trichlorobenzene	5.0	ug/kg	1.0	U	U	Yes	S4VEM
Total Alkane TICs	320	ug/kg	1.0	J	JN	Yes	S4VEM
trans-Decalin, 2-methyl-	12	ug/kg	1.0	JN	JN	Yes	S4VEM
trans-Decalin, 2-methyl-(1)	10	ug/kg	1.0	JN	JN	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ14	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12294652	pH:	Sample Date: 07162012	Sample Time: 14:55:00
% Moisture : 12.20		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	39	ug/kg	1.0		U	Yes	S4VEM
Carbon Disulfide	1.9	ug/kg	1.0	J	JQ	Yes	S4VEM
Methyl acetate	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	4.1	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	3.8	ug/kg	1.0	J	JQ	Yes	S4VEM
2-Butanone	8.2	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	43	ug/kg	1.0		JK	Yes	S4VEM
Carbon tetrachloride	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	82	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	1.9	ug/kg	1.0	J	JQ	Yes	S4VEM
Methylcyclohexa ne	170	ug/kg	1.0	E	R	No	S4VEM
1,2-Dichloropropane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	4.1	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	4.1	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	8.2	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	4.1	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,3-Dichloropropene	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	2.6	ug/kg	1.0	J	JQ	Yes	S4VEM
2-Hexanone	8.2	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	9.3	ug/kg	1.0			Yes	S4VEM
o-Xylene	9.5	ug/kg	1.0			Yes	S4VEM
m,p-Xylene	7.9	ug/kg	1.0			Yes	S4VEM
Styrene	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	15	ug/kg	1.0			Yes	S4VEM
1,1,2,2-Tetrachloroethane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	4.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	4.1	ug/kg	1.0	U	U	Yes	S4VEM
Total Alkane TICs	8500	ug/kg	1.0	J	JN	Yes	S4VEM
Naphthalene, 1,2,3,4-tetrahydro-1,4-dime	1300	ug/kg	1.0	JN	JN	Yes	S4VEM
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	880	ug/kg	1.0	JN	JN	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code LIBRTY
Sample Number: JRZ14ME	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12294652	pH:	Sample Date: 07162012	Sample Time: 14:55:00
% Moisture : 12.20		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	260	ug/kg	1.0	U	R	No	S4VEM
Chloromethane	260	ug/kg	1.0	U	R	No	S4VEM
Vinyl chloride	260	ug/kg	1.0	U	R	No	S4VEM
Bromomethane	260	ug/kg	1.0	U	R	No	S4VEM
Chloroethane	260	ug/kg	1.0	U	R	No	S4VEM
Trichlorofluorom ethane	260	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethene	260	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	260	ug/kg	1.0	U	R	No	S4VEM
Acetone	510	ug/kg	1.0	JB	R	No	S4VEM
Carbon Disulfide	260	ug/kg	1.0	U	R	No	S4VEM
Methyl acetate	260	ug/kg	1.0	U	R	No	S4VEM
Methylene chloride	200	ug/kg	1.0	J	R	No	S4VEM
trans-1,2-Dichloroethene	260	ug/kg	1.0	U	R	No	S4VEM
Methyl tert-butyl ether	260	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethane	260	ug/kg	1.0	U	R	No	S4VEM
cis-1,2-Dichloroethene	260	ug/kg	1.0	U	R	No	S4VEM
2-Butanone	510	ug/kg	1.0	U	R	No	S4VEM
Bromochloromet hane	260	ug/kg	1.0	U	R	No	S4VEM
Chloroform	260	ug/kg	1.0	U	R	No	S4VEM
1,1,1-Trichloroethane	260	ug/kg	1.0	U	R	No	S4VEM
Cyclohexane	260	ug/kg	1.0	U	R	No	S4VEM
Carbon tetrachloride	260	ug/kg	1.0	U	R	No	S4VEM
Benzene	260	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloroethane	260	ug/kg	1.0	U	R	No	S4VEM
1,4-Dioxane	5100	ug/kg	1.0	U	R	No	S4VEM
Trichloroethene	260	ug/kg	1.0	U	R	No	S4VEM
Methylcyclohexa ne	2000	ug/kg	1.0			Yes	S4VEM
1,2-Dichloropropane	260	ug/kg	1.0	U	R	No	S4VEM
Bromodichlorom	260	ug/kg	1.0	U	R	No	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	260	ug/kg	1.0	U	R	No	S4VEM
cis-1,3-Dichloropropene	260	ug/kg	1.0	U	R	No	S4VEM
4-Methyl-2-pentanone	510	ug/kg	1.0	U	R	No	S4VEM
Toluene	260	ug/kg	1.0	U	R	No	S4VEM
trans-1,3-Dichloropropene	260	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloroethane	260	ug/kg	1.0	U	R	No	S4VEM
Tetrachloroethene	260	ug/kg	1.0	U	R	No	S4VEM
2-Hexanone	510	ug/kg	1.0	U	R	No	S4VEM
Dibromochloromethane	260	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromoethane	260	ug/kg	1.0	U	R	No	S4VEM
Chlorobenzene	260	ug/kg	1.0	U	R	No	S4VEM
Ethylbenzene	260	ug/kg	1.0	U	R	No	S4VEM
o-Xylene	260	ug/kg	1.0	U	R	No	S4VEM
m,p-Xylene	260	ug/kg	1.0	U	R	No	S4VEM
Styrene	260	ug/kg	1.0	U	R	No	S4VEM
Bromoform	260	ug/kg	1.0	U	R	No	S4VEM
Isopropylbenzene	220	ug/kg	1.0	J	R	No	S4VEM
1,1,2,2-Tetrachloroethane	260	ug/kg	1.0	U	R	No	S4VEM
1,3-Dichlorobenzene	260	ug/kg	1.0	U	R	No	S4VEM
1,4-Dichlorobenzene	260	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichlorobenzene	260	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromo-3-chloropropane	260	ug/kg	1.0	U	R	No	S4VEM
1,2,4-Trichlorobenzene	260	ug/kg	1.0	U	R	No	S4VEM
1,2,3-Trichlorobenzene	260	ug/kg	1.0	U	R	No	S4VEM
Benzene, 1-ethyl-2,3-dimethyl-	27000	ug/kg	1.0	JN	R	No	S4VEM
Benzene, pentamethyl-	9900	ug/kg	1.0	JN	R	No	S4VEM
Benzene, 1-methyl-3-propyl-	9500	ug/kg	1.0	JN	R	No	S4VEM
Benzene, 1-methyl-3-(1-methylethyl)-	13000	ug/kg	1.0	JN	R	No	S4VEM
1H-Indene, 2,3-dihydro-1,6-dimethyl-	15000	ug/kg	1.0	JN	R	No	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1H-Indene,2,3-dihydro-2,2-dimethyl-	12000	ug/kg	1.0	JN	R	No	S4VEM
Benzene, 1-methyl-2-(1-methylethyl)-	16000	ug/kg	1.0	JN	R	No	S4VEM
Benzene, (1-methyl-1-butenyl)-	16000	ug/kg	1.0	JN	R	No	S4VEM
Naphthalene, decahydro-, trans-	14000	ug/kg	1.0	JN	R	No	S4VEM
1H-Indene, 2,3-dihydro-4,7-dimethyl-	16000	ug/kg	1.0	JN	R	No	S4VEM
Benzene, 4-ethyl-1,2-dimethyl-	8000	ug/kg	1.0	JN	R	No	S4VEM
Benzene, 1,2,3-trimethyl-	8100	ug/kg	1.0	JN	R	No	S4VEM
Benzene, (1-methylpropyl)-	14000	ug/kg	1.0	JN	R	No	S4VEM
Total Alkane TICs	24000	ug/kg	1.0	J	R	No	S4VEM
Naphthalene, decahydro-2-methyl-	12000	ug/kg	1.0	JN	R	No	S4VEM
Naphthalene, 1,2,3,4-tetrahydro-1,4-dime	7900	ug/kg	1.0	JN	R	No	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ15	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12294653	pH:	Sample Date: 07162012	Sample Time: 15:03:00
% Moisture : 18.70		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	5.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Vinyl chloride	5.1	ug/kg	1.0	U	U	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	UJK	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	UJK	Yes	S4VEM
Acetone	13	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	UJK	Yes	S4VEM
Methylene chloride	5.1	ug/kg	1.0	U	UJK	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	UJK	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	UJK	Yes	S4VEM
Cyclohexane	5.1	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Benzene	5.1	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	5.1	ug/kg	1.0	U	UJK	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	UJK	Yes	S4VEM
4-Methyl-2-pentanone	10	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	0.74	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2-Trichloroethane	5.1	ug/kg	1.0	U	UJK	Yes	S4VEM
Tetrachloroethene	5.1	ug/kg	1.0	U	U	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	UJK	Yes	S4VEM
Chlorobenzene	5.1	ug/kg	1.0	U	UJK	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	UJK	Yes	S4VEM
1,4-Dichlorobenzene	5.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichlorobenzene	5.1	ug/kg	1.0	U	UJK	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	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	5.1	ug/kg	1.0	U	UJK	Yes	S4VEM
1H-Indene, 2,3-dihydro-1,6-dimethyl-	22	ug/kg	1.0	JN	JN	Yes	S4VEM
1-Methyldecahydronaphthalene	17	ug/kg	1.0	JN	JN	Yes	S4VEM
Total Alkane TICs	84	ug/kg	1.0	J	JN	Yes	S4VEM
Benzene, 1,3-diethyl-5-methyl-	35	ug/kg	1.0	JN	JN	Yes	S4VEM
Benzene, 1,3-dimethyl-5-(1-methylethyl)-	27	ug/kg	1.0	JN	JN	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzene, 1,2,4,5-tetramethyl-	40	ug/kg	1.0	JN	JN	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ32	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284768	pH:	Sample Date: 07132012	Sample Time: 14:09:00
% Moisture : 4.31		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	4.3	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1-Dichloroethene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	4.3	ug/kg	1.0	U	UJK	Yes	S4VEM
Acetone	8.7	ug/kg	1.0	J	U	Yes	S4VEM
Carbon Disulfide	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	4.3	ug/kg	1.0	U	UJK	Yes	S4VEM
Methylene chloride	4.3	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	4.3	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1-Dichloroethane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	8.7	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	4.3	ug/kg	1.0	U	UJK	Yes	S4VEM
Cyclohexane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Carbon tetrachloride	4.3	ug/kg	1.0	U	UJK	Yes	S4VEM
Benzene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	4.3	ug/kg	1.0	U	UJK	Yes	S4VEM
1,4-Dioxane	87	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	4.3	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	8.7	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	4.3	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,3-Dichloropropene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	200	ug/kg	1.0	E	JK	Yes	S4VEM
2-Hexanone	8.7	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	4.3	ug/kg	1.0	U	UJK	Yes	S4VEM
Chlorobenzene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	4.3	ug/kg	1.0	U	U	Yes	S4VEM
Naphthalene, 1,6,7-trimethyl-	35	ug/kg	1.0	JN	JN	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ32ME	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284768	pH:	Sample Date: 07132012	Sample Time: 14:09:00
% Moisture : 4.31		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	260	ug/kg	1.0	U	R	No	S4VEM
Chloromethane	260	ug/kg	1.0	U	R	No	S4VEM
Vinyl chloride	260	ug/kg	1.0	U	R	No	S4VEM
Bromomethane	260	ug/kg	1.0	U	R	No	S4VEM
Chloroethane	260	ug/kg	1.0	U	R	No	S4VEM
Trichlorofluorom ethane	260	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethene	260	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	260	ug/kg	1.0	U	R	No	S4VEM
Acetone	520	ug/kg	1.0	U	R	No	S4VEM
Carbon Disulfide	260	ug/kg	1.0	U	R	No	S4VEM
Methyl acetate	260	ug/kg	1.0	U	R	No	S4VEM
Methylene chloride	180	ug/kg	1.0	J	R	No	S4VEM
trans-1,2-Dichloroethene	260	ug/kg	1.0	U	R	No	S4VEM
Methyl tert-butyl ether	260	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethane	260	ug/kg	1.0	U	R	No	S4VEM
cis-1,2-Dichloroethene	260	ug/kg	1.0	U	R	No	S4VEM
2-Butanone	520	ug/kg	1.0	U	R	No	S4VEM
Bromochloromet hane	260	ug/kg	1.0	U	R	No	S4VEM
Chloroform	260	ug/kg	1.0	U	R	No	S4VEM
1,1,1-Trichloroethane	260	ug/kg	1.0	U	R	No	S4VEM
Cyclohexane	260	ug/kg	1.0	U	R	No	S4VEM
Carbon tetrachloride	260	ug/kg	1.0	U	R	No	S4VEM
Benzene	260	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloroethane	260	ug/kg	1.0	U	R	No	S4VEM
1,4-Dioxane	5200	ug/kg	1.0	U	R	No	S4VEM
Trichloroethene	260	ug/kg	1.0	U	R	No	S4VEM
Methylcyclohexa ne	260	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloropropane	260	ug/kg	1.0	U	R	No	S4VEM
Bromodichlorom	260	ug/kg	1.0	U	R	No	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	260	ug/kg	1.0	U	R	No	S4VEM
cis-1,3-Dichloropropene	260	ug/kg	1.0	U	R	No	S4VEM
4-Methyl-2-pentanone	520	ug/kg	1.0	U	R	No	S4VEM
Toluene	260	ug/kg	1.0	U	R	No	S4VEM
trans-1,3-Dichloropropene	260	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloroethane	260	ug/kg	1.0	U	R	No	S4VEM
Tetrachloroethene	260	ug/kg	1.0	U	R	No	S4VEM
2-Hexanone	520	ug/kg	1.0	U	R	No	S4VEM
Dibromochloromethane	260	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromoethane	260	ug/kg	1.0	U	R	No	S4VEM
Chlorobenzene	260	ug/kg	1.0	U	R	No	S4VEM
Ethylbenzene	260	ug/kg	1.0	U	R	No	S4VEM
o-Xylene	260	ug/kg	1.0	U	R	No	S4VEM
m,p-Xylene	260	ug/kg	1.0	U	R	No	S4VEM
Styrene	260	ug/kg	1.0	U	R	No	S4VEM
Bromoform	260	ug/kg	1.0	U	R	No	S4VEM
Isopropylbenzene	260	ug/kg	1.0	U	R	No	S4VEM
1,1,2,2-Tetrachloroethane	260	ug/kg	1.0	U	R	No	S4VEM
1,3-Dichlorobenzene	260	ug/kg	1.0	U	R	No	S4VEM
1,4-Dichlorobenzene	260	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichlorobenzene	260	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromo-3-chloropropane	260	ug/kg	1.0	U	R	No	S4VEM
1,2,4-Trichlorobenzene	260	ug/kg	1.0	U	R	No	S4VEM
1,2,3-Trichlorobenzene	260	ug/kg	1.0	U	R	No	S4VEM
Naphthalene, 1-ethyl-	4200	ug/kg	1.0	JN	R	No	S4VEM
Naphthalene, 1,4,6-trimethyl-	1700	ug/kg	1.0	JN	R	No	S4VEM
3-(2-Methyl-propenyl)-1H-indene	1900	ug/kg	1.0	JN	R	No	S4VEM
Naphthalene, 1,4-dimethyl-	910	ug/kg	1.0	JN	R	No	S4VEM
Naphthalene, 1,4,5-trimethyl-	380	ug/kg	1.0	JN	R	No	S4VEM
Naphthalene, 2,3-dimethyl-	6600	ug/kg	1.0	JN	R	No	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Naphthalene, 1,6,7-trimethyl-	1100	ug/kg	1.0	JN	R	No	S4VEM
Naphthalene, 2,3,6-trimethyl-	1000	ug/kg	1.0	JN	R	No	S4VEM
Naphthalene, 1,6-dimethyl-	5400	ug/kg	1.0	JN	R	No	S4VEM
Naphthalene, 2,6-dimethyl-	2300	ug/kg	1.0	JN	R	No	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ34	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284800	pH:	Sample Date: 07142012	Sample Time: 08:23:00
% Moisture: 3.37		% Solids:	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	14	ug/kg	1.0	J	U	Yes	S4VEM
Carbon Disulfide	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	7.0	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	14	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Carbon tetrachloride	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	140	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	7.0	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	14	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	7.0	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,3-Dichloropropene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	4.1	ug/kg	1.0	J	JQ	Yes	S4VEM
2-Hexanone	14	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	7.0	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	7.0	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	7.0	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ35	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284801	pH:	Sample Date: 07142012	Sample Time: 10:58:00
% Moisture : 14.13		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	9.4	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	9.4	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromomethane	9.4	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	9.4	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1-Dichloroethene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Acetone	19	ug/kg	1.0	J	U	Yes	S4VEM
Carbon Disulfide	9.4	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Methylene chloride	9.4	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Methyl tert-butyl ether	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1-Dichloroethane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
cis-1,2-Dichloroethene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
2-Butanone	19	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloroform	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,1-Trichloroethane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Cyclohexane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Carbon tetrachloride	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Benzene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichloroethane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,4-Dioxane	190	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Methylcyclohexa ne	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichloropropane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromodichlorom	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
cis-1,3-Dichloropropene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
4-Methyl-2-pentanone	19	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	10	ug/kg	1.0	B	~~UK~~ JH	Yes	S4VEM
trans-1,3-Dichloropropene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2-Trichloroethane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Tetrachloroethene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
2-Hexanone	19	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dibromoethane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Chlorobenzene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Ethylbenzene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
o-Xylene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
m,p-Xylene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Styrene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromoform	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
Isopropylbenzene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2,2-Tetrachloroethane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,3-Dichlorobenzene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,4-Dichlorobenzene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichlorobenzene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dibromo-3-chloropropane	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,4-Trichlorobenzene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	9.4	ug/kg	1.0	U	UJK	Yes	S4VEM
.alpha.-Pinene	11	ug/kg	1.0	JN	JN	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ35RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284801	pH:	Sample Date: 07142012	Sample Time: 10:58:00
% Moisture : 14.13		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	7.7	ug/kg	1.0	U	R	No	S4VEM
Chloromethane	7.7	ug/kg	1.0	U	R	No	S4VEM
Vinyl chloride	7.7	ug/kg	1.0	U	R	No	S4VEM
Bromomethane	7.7	ug/kg	1.0	U	R	No	S4VEM
Chloroethane	7.7	ug/kg	1.0	U	R	No	S4VEM
Trichlorofluorom ethane	7.7	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethene	7.7	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	7.7	ug/kg	1.0	U	R	No	S4VEM
Acetone	69	ug/kg	1.0	B	R	No	S4VEM
Carbon Disulfide	7.7	ug/kg	1.0	U	R	No	S4VEM
Methyl acetate	3.6	ug/kg	1.0	J	R	No	S4VEM
Methylene chloride	7.7	ug/kg	1.0	U	R	No	S4VEM
trans-1,2-Dichloroethene	7.7	ug/kg	1.0	U	R	No	S4VEM
Methyl tert-butyl ether	7.7	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethane	7.7	ug/kg	1.0	U	R	No	S4VEM
cis-1,2-Dichloroethene	7.7	ug/kg	1.0	U	R	No	S4VEM
2-Butanone	15	ug/kg	1.0	U	R	No	S4VEM
Bromochloromet hane	7.7	ug/kg	1.0	U	R	No	S4VEM
Chloroform	7.7	ug/kg	1.0	U	R	No	S4VEM
1,1,1-Trichloroethane	7.7	ug/kg	1.0	U	R	No	S4VEM
Cyclohexane	7.7	ug/kg	1.0	JB	R	No	S4VEM
Carbon tetrachloride	7.7	ug/kg	1.0	U	R	No	S4VEM
Benzene	7.7	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloroethane	7.7	ug/kg	1.0	U	R	No	S4VEM
1,4-Dioxane	150	ug/kg	1.0	U	R	No	S4VEM
Trichloroethene	7.7	ug/kg	1.0	U	R	No	S4VEM
Methylcyclohexa ne	7.7	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloropropane	7.7	ug/kg	1.0	U	R	No	S4VEM
Bromodichlorom	7.7	ug/kg	1.0	U	R	No	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	7.7	ug/kg	1.0	U	R	No	S4VEM
cis-1,3-Dichloropropene	7.7	ug/kg	1.0	U	R	No	S4VEM
4-Methyl-2-pentanone	15	ug/kg	1.0	U	R	No	S4VEM
Toluene	5.2	ug/kg	1.0	J	R	No	S4VEM
trans-1,3-Dichloropropene	7.7	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloroethane	7.7	ug/kg	1.0	U	R	No	S4VEM
Tetrachloroethene	2.7	ug/kg	1.0	J	R	No	S4VEM
2-Hexanone	15	ug/kg	1.0	U	R	No	S4VEM
Dibromochloromethane	7.7	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromoethane	7.7	ug/kg	1.0	U	R	No	S4VEM
Chlorobenzene	7.7	ug/kg	1.0	U	R	No	S4VEM
Ethylbenzene	7.7	ug/kg	1.0	U	R	No	S4VEM
o-Xylene	7.7	ug/kg	1.0	U	R	No	S4VEM
m,p-Xylene	7.7	ug/kg	1.0	U	R	No	S4VEM
Styrene	7.7	ug/kg	1.0	U	R	No	S4VEM
Bromoform	7.7	ug/kg	1.0	U	R	No	S4VEM
Isopropylbenzene	7.7	ug/kg	1.0	U	R	No	S4VEM
1,1,2,2-Tetrachloroethane	7.7	ug/kg	1.0	U	R	No	S4VEM
1,3-Dichlorobenzene	7.7	ug/kg	1.0	U	R	No	S4VEM
1,4-Dichlorobenzene	7.7	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichlorobenzene	7.7	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromo-3-chloropropane	7.7	ug/kg	1.0	U	R	No	S4VEM
1,2,4-Trichlorobenzene	7.7	ug/kg	1.0	U	R	No	S4VEM.
1,2,3-Trichlorobenzene	7.7	ug/kg	1.0	U	R	No	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ36	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12294674	pH:	Sample Date: 07162012	Sample Time: 12:15:00
% Moisture : 5.88		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromomethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Acetone	11	ug/kg	1.0		U	Yes	S4VEM
Carbon Disulfide	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Methylene chloride	4.6	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1-Dichloroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	9.3	ug/kg	1.0	U	U	Yes	S4VEM
Bromochloromet hane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Cyclohexane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Carbon tetrachloride	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Benzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dioxane	93	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Methylcyclohexa ne	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	4.6	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	9.3	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	4.6	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,3-Dichloropropene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
2-Hexanone	9.3	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Chlorobenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Ethylbenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
o-Xylene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
m,p-Xylene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Styrene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Bromoform	4.6	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2,2-Tetrachloroethane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,4-Dichlorobenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichlorobenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromo-3-chloropropane	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM
1,2,3-Trichlorobenzene	4.6	ug/kg	1.0	U	U	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ37	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12294675	pH:	Sample Date: 07162012	Sample Time: 14:44:00
% Moisture : 15.65		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
Chloromethane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
Vinyl chloride	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromomethane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
Chloroethane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
Trichlorofluorom ethane	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1-Dichloroethene	4.5	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
Acetone	35	ug/kg	1.0		U	Yes	S4VEM
Carbon Disulfide	4.5	ug/kg	1.0	U	U	Yes	S4VEM
Methyl acetate	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
Methylene chloride	4.5	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	4.5	ug/kg	1.0	U	U	Yes	S4VEM
Methyl tert-butyl ether	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1-Dichloroethane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,2-Dichloroethene	4.5	ug/kg	1.0	U	U	Yes	S4VEM
2-Butanone	5.4	ug/kg	1.0	J	JQ	Yes	S4VEM
Bromochloromet hane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
Chloroform	4.5	ug/kg	1.0	U	U	Yes	S4VEM
1,1,1-Trichloroethane	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
Cyclohexane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
Carbon tetrachloride	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
Benzene	4.5	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloroethane	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
1,4-Dioxane	89	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
Methylcyclohexa ne	4.5	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dichloropropane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
Bromodichlorom	4.5	ug/kg	1.0	U	U	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
cis-1,3-Dichloropropene	4.5	ug/kg	1.0	U	U	Yes	S4VEM
4-Methyl-2-pentanone	8.9	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	4.5	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,3-Dichloropropene	4.5	ug/kg	1.0	U	U	Yes	S4VEM
1,1,2-Trichloroethane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
Tetrachloroethene	0.39	ug/kg	1.0	J	JQ	Yes	S4VEM
2-Hexanone	8.9	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
1,2-Dibromoethane	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
Chlorobenzene	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
Ethylbenzene	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
o-Xylene	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
m,p-Xylene	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
Styrene	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromoform	4.5	ug/kg	1.0	U	U	Yes	S4VEM
Isopropylbenzene	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2,2-Tetrachloroethane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
1,3-Dichlorobenzene	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
1,4-Dichlorobenzene	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichlorobenzene	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dibromo-3-chloropropane	4.5	ug/kg	1.0	U	U	Yes	S4VEM
1,2,4-Trichlorobenzene	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	4.5	ug/kg	1.0	U	UJK	Yes	S4VEM
3-Octanone	16	ug/kg	1.0	JN	JN	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZ37RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12294675	pH:	Sample Date: 07162012	Sample Time: 14:44:00
% Moisture : 15.65		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.5	ug/kg	1.0	U	R	No	S4VEM
Chloromethane	5.5	ug/kg	1.0	U	R	No	S4VEM
Vinyl chloride	5.5	ug/kg	1.0	U	R	No	S4VEM
Bromomethane	5.5	ug/kg	1.0	U	R	No	S4VEM
Chloroethane	5.5	ug/kg	1.0	U	R	No	S4VEM
Trichlorofluorom ethane	5.5	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethene	5.5	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	ug/kg	1.0	U	R	No	S4VEM
Acetone	83	ug/kg	1.0	B	R	No	S4VEM
Carbon Disulfide	5.5	ug/kg	1.0	U	R	No	S4VEM
Methyl acetate	4.3	ug/kg	1.0	J	R	No	S4VEM
Methylene chloride	0.70	ug/kg	1.0	J	R	No	S4VEM
trans-1,2-Dichloroethene	5.5	ug/kg	1.0	U	R	No	S4VEM
Methyl tert-butyl ether	5.5	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethane	5.5	ug/kg	1.0	U	R	No	S4VEM
cis-1,2-Dichloroethene	5.5	ug/kg	1.0	U	R	No	S4VEM
2-Butanone	11	ug/kg	1.0	U	R	No	S4VEM
Bromochloromet hane	5.5	ug/kg	1.0	U	R	No	S4VEM
Chloroform	5.5	ug/kg	1.0	U	R	No	S4VEM
1,1,1-Trichloroethane	5.5	ug/kg	1.0	U	R	No	S4VEM
Cyclohexane	5.5	ug/kg	1.0	JB	R	No	S4VEM
Carbon tetrachloride	5.5	ug/kg	1.0	U	R	No	S4VEM
Benzene	5.5	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloroethane	5.5	ug/kg	1.0	U	R	No	S4VEM
1,4-Dioxane	110	ug/kg	1.0	U	R	No	S4VEM
Trichloroethene	5.5	ug/kg	1.0	U	R	No	S4VEM
Methylcyclohexa ne	5.5	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloropropane	5.5	ug/kg	1.0	U	R	No	S4VEM
Bromodichlorom	5.5	ug/kg	1.0	U	R	No	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.5	ug/kg	1.0	U	R	No	S4VEM
cis-1,3-Dichloropropene	5.5	ug/kg	1.0	U	R	No	S4VEM
4-Methyl-2-pentanone	11	ug/kg	1.0	U	R	No	S4VEM
Toluene	0.82	ug/kg	1.0	J	R	No	S4VEM
trans-1,3-Dichloropropene	5.5	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloroethane	5.5	ug/kg	1.0	U	R	No	S4VEM
Tetrachloroethene	5.5	ug/kg	1.0	U	R	No	S4VEM
2-Hexanone	11	ug/kg	1.0	U	R	No	S4VEM
Dibromochloromethane	5.5	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromoethane	5.5	ug/kg	1.0	U	R	No	S4VEM
Chlorobenzene	5.5	ug/kg	1.0	U	R	No	S4VEM
Ethylbenzene	5.5	ug/kg	1.0	U	R	No	S4VEM
o-Xylene	5.5	ug/kg	1.0	U	R	No	S4VEM
m,p-Xylene	5.5	ug/kg	1.0	U	R	No	S4VEM
Styrene	5.5	ug/kg	1.0	U	R	No	S4VEM
Bromoform	5.5	ug/kg	1.0	U	R	No	S4VEM
Isopropylbenzene	5.5	ug/kg	1.0	U	R	No	S4VEM
1,1,2,2-Tetrachloroethane	5.5	ug/kg	1.0	U	R	No	S4VEM
1,3-Dichlorobenzene	5.5	ug/kg	1.0	U	R	No	S4VEM
1,4-Dichlorobenzene	5.5	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichlorobenzene	5.5	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromo-3-chloropropane	5.5	ug/kg	1.0	U	R	No	S4VEM
1,2,4-Trichlorobenzene	5.5	ug/kg	1.0	U	R	No	S4VEM
1,2,3-Trichlorobenzene	5.5	ug/kg	1.0	U	R	No	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZA0	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284644	pH:	Sample Date: 07122012	Sample Time: 12:25:00
% Moisture : 3.69		% 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	U	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	10	ug/kg	1.0	J	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	2.0	ug/kg	1.0	J	JQ	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	U	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	JB	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	5.1	ug/kg	1.0	U	U	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: JRZ04	Lab Code: LIBRTY
Sample Number: JRZA1	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284645	pH:	Sample Date: 07122012	Sample Time: 12:32:00
% Moisture : 5.57		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Chloromethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Vinyl chloride	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Bromomethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Chloroethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Trichlorofluorom ethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,1-Dichloroethene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Acetone	20	ug/kg	1.0		U	Yes	S4VEM
Carbon Disulfide	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Methyl acetate	5.2	ug/kg	1.0	U	R	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	R	Yes	S4VEM
Methyl tert-butyl ether	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,1-Dichloroethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
cis-1,2-Dichloroethene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
2-Butanone	10	ug/kg	1.0	U	R	Yes	S4VEM
Bromochloromet hane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Chloroform	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,1,1-Trichloroethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Cyclohexane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Carbon tetrachloride	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Benzene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dichloroethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Methylcyclohexa ne	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dichloropropane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Bromodichlorom	5.2	ug/kg	1.0	U	R	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
cis-1,3-Dichloropropene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
4-Methyl-2-pentanone	10	ug/kg	1.0	U	R	Yes	S4VEM
Toluene	1.1	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,1,2-Trichloroethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Tetrachloroethene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
2-Hexanone	10	ug/kg	1.0	U	R	Yes	S4VEM
Dibromochloromethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dibromoethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Chlorobenzene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Ethylbenzene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
o-Xylene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
m,p-Xylene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Styrene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Bromoform	5.2	ug/kg	1.0	U	R	Yes	S4VEM
Isopropylbenzene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,3-Dichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,4-Dichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,2,4-Trichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	S4VEM
1,2,3-Trichlorobenzene	5.2	ug/kg	1.0	U	R	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZA2	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284646	pH:	Sample Date: 07122012	Sample Time: 12:35:00
% Moisture: 2.21		% Solids:	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Chloromethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Vinyl chloride	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Bromomethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Chloroethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Trichlorofluorom ethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,1-Dichloroethene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Acetone	26	ug/kg	1.0		U	Yes	S4VEM
Carbon Disulfide	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Methyl acetate	5.1	ug/kg	1.0	U	R	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	R	Yes	S4VEM
Methyl tert-butyl ether	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,1-Dichloroethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
cis-1,2-Dichloroethene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
2-Butanone	10	ug/kg	1.0	U	R	Yes	S4VEM
Bromochloromet hane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Chloroform	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,1,1-Trichloroethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Cyclohexane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Carbon tetrachloride	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Benzene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dichloroethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,4-Dioxane	100	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Methylcyclohexa ne	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dichloropropane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Bromodichlorom	5.1	ug/kg	1.0	U	R	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
cis-1,3-Dichloropropene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
4-Methyl-2-pentanone	10	ug/kg	1.0	U	R	Yes	S4VEM
Toluene	1.1	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,1,2-Trichloroethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Tetrachloroethene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
2-Hexanone	10	ug/kg	1.0	U	R	Yes	S4VEM
Dibromochloromethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dibromoethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Chlorobenzene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Ethylbenzene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
o-Xylene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
m,p-Xylene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Styrene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Bromoform	5.1	ug/kg	1.0	U	R	Yes	S4VEM
Isopropylbenzene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,3-Dichlorobenzene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,4-Dichlorobenzene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dichlorobenzene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,2,4-Trichlorobenzene	5.1	ug/kg	1.0	U	R	Yes	S4VEM
1,2,3-Trichlorobenzene	5.1	ug/kg	1.0	U	R	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZA3	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284647	pH:	Sample Date: 07122012	Sample Time: 12:52:00
% Moisture : 8.50		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Chloromethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Vinyl chloride	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Bromomethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Chloroethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Trichlorofluorom ethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,1-Dichloroethene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Acetone	24	ug/kg	1.0		U	Yes	S4VEM
Carbon Disulfide	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Methyl acetate	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Methylene chloride	5.7	ug/kg	1.0	JB	U	Yes	S4VEM
trans-1,2-Dichloroethene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Methyl tert-butyl ether	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,1-Dichloroethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
cis-1,2-Dichloroethene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
2-Butanone	11	ug/kg	1.0	U	R	Yes	S4VEM
Bromochloromet hane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Chloroform	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,1,1-Trichloroethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Cyclohexane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Carbon tetrachloride	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Benzene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dichloroethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Methylcyclohexa ne	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dichloropropane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Bromodichlorom	5.7	ug/kg	1.0	U	R	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
cis-1,3-Dichloropropene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
4-Methyl-2-pentanone	11	ug/kg	1.0	U	R	Yes	S4VEM
Toluene	1.6	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,1,2-Trichloroethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Tetrachloroethene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
2-Hexanone	11	ug/kg	1.0	U	R	Yes	S4VEM
Dibromochloromethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dibromoethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Chlorobenzene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Ethylbenzene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
o-Xylene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
m,p-Xylene	0.46	ug/kg	1.0	J	JQ	Yes	S4VEM
Styrene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Bromoform	5.7	ug/kg	1.0	U	R	Yes	S4VEM
Isopropylbenzene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,3-Dichlorobenzene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,4-Dichlorobenzene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dichlorobenzene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,2,4-Trichlorobenzene	5.7	ug/kg	1.0	U	R	Yes	S4VEM
1,2,3-Trichlorobenzene	5.7	ug/kg	1.0	U	R	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZA4	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284648	pH:	Sample Date: 07122012	Sample Time: 12:21:00
% Moisture : 13.20		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.4	ug/kg	1.0	U	R	No	S4VEM
Chloromethane	4.4	ug/kg	1.0	U	R	No	S4VEM
Vinyl chloride	4.4	ug/kg	1.0	U	R	No	S4VEM
Bromomethane	4.4	ug/kg	1.0	U	R	No	S4VEM
Chloroethane	4.4	ug/kg	1.0	U	R	No	S4VEM
Trichlorofluorom ethane	4.4	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethene	4.4	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	4.4	ug/kg	1.0	U	R	No	S4VEM
Acetone	8.8	ug/kg	1.0	U	R	No	S4VEM
Carbon Disulfide	4.4	ug/kg	1.0	U	R	No	S4VEM
Methyl acetate	4.4	ug/kg	1.0	U	R	No	S4VEM
Methylene chloride	4.4	ug/kg	1.0	U	R	No	S4VEM
trans-1,2-Dichloroethene	4.4	ug/kg	1.0	U	R	No	S4VEM
Methyl tert-butyl ether	4.4	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethane	4.4	ug/kg	1.0	U	R	No	S4VEM
cis-1,2-Dichloroethene	4.4	ug/kg	1.0	U	R	No	S4VEM
2-Butanone	8.8	ug/kg	1.0	U	R	No	S4VEM
Bromochloromet hane	4.4	ug/kg	1.0	U	R	No	S4VEM
Chloroform	4.4	ug/kg	1.0	U	R	No	S4VEM
1,1,1-Trichloroethane	4.4	ug/kg	1.0	U	R	No	S4VEM
Cyclohexane	4.4	ug/kg	1.0	U	R	No	S4VEM
Carbon tetrachloride	4.4	ug/kg	1.0	U	R	No	S4VEM
Benzene	4.4	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloroethane	4.4	ug/kg	1.0	U	R	No	S4VEM
1,4-Dioxane	88	ug/kg	1.0	U	R	No	S4VEM
Trichloroethene	4.4	ug/kg	1.0	U	R	No	S4VEM
Methylcyclohexa ne	4.4	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloropropane	4.4	ug/kg	1.0	U	R	No	S4VEM
Bromodichlorom	4.4	ug/kg	1.0	U	R	No	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.4	ug/kg	1.0	U	R	No	S4VEM
cis-1,3-Dichloropropene	4.4	ug/kg	1.0	U	R	No	S4VEM
4-Methyl-2-pentanone	8.8	ug/kg	1.0	U	R	No	S4VEM
Toluene	4.4	ug/kg	1.0	U	R	No	S4VEM
trans-1,3-Dichloropropene	4.4	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloroethane	4.4	ug/kg	1.0	U	R	No	S4VEM
Tetrachloroethene	4.4	ug/kg	1.0	U	R	No	S4VEM
2-Hexanone	8.8	ug/kg	1.0	U	R	No	S4VEM
Dibromochloromethane	4.4	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromoethane	4.4	ug/kg	1.0	U	R	No	S4VEM
Chlorobenzene	4.4	ug/kg	1.0	U	R	No	S4VEM
Ethylbenzene	4.4	ug/kg	1.0	U	R	No	S4VEM
o-Xylene	4.4	ug/kg	1.0	U	R	No	S4VEM
m,p-Xylene	4.4	ug/kg	1.0	U	R	No	S4VEM
Styrene	4.4	ug/kg	1.0	U	R	No	S4VEM
Bromoform	4.4	ug/kg	1.0	U	R	No	S4VEM
Isopropylbenzene	4.4	ug/kg	1.0	U	R	No	S4VEM
1,1,2,2-Tetrachloroethane	4.4	ug/kg	1.0	U	R	No	S4VEM
1,3-Dichlorobenzene	4.4	ug/kg	1.0	U	R	No	S4VEM
1,4-Dichlorobenzene	4.4	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichlorobenzene	4.4	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromo-3-chloropropane	4.4	ug/kg	1.0	U	R	No	S4VEM
1,2,4-Trichlorobenzene	4.4	ug/kg	1.0	U	R	No	S4VEM
1,2,3-Trichlorobenzene	4.4	ug/kg	1.0	U	R	No	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZA4RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284648	pH:	Sample Date: 07122012	Sample Time: 12:21:00
% Moisture : 13.20		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloromethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Vinyl chloride	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromomethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloroethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Trichlorofluorom ethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1-Dichloroethene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Acetone	28	ug/kg	1.0	B	U	Yes	S4VEM
Carbon Disulfide	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Methyl acetate	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Methylene chloride	0.66	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,2-Dichloroethene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Methyl tert-butyl ether	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1-Dichloroethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
cis-1,2-Dichloroethene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
2-Butanone	9.8	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromochloromet hane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Chloroform	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,1-Trichloroethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Cyclohexane	4.9	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Benzene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichloroethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,4-Dioxane	98	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Methylcyclohexa ne	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichloropropane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromodichlorom	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
cis-1,3-Dichloropropene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
4-Methyl-2-pentanone	9.8	ug/kg	1.0	U	UJK	Yes	S4VEM
Toluene	0.65	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2-Trichloroethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Tetrachloroethene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
2-Hexanone	9.8	ug/kg	1.0	U	UJK	Yes	S4VEM
Dibromochloromethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dibromoethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Chlorobenzene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Ethylbenzene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
o-Xylene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
m,p-Xylene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Styrene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromoform	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
Isopropylbenzene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2,2-Tetrachloroethane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,3-Dichlorobenzene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,4-Dichlorobenzene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichlorobenzene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dibromo-3-chloropropane	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,4-Trichlorobenzene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2,3-Trichlorobenzene	4.9	ug/kg	1.0	U	UJK	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZA5	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284649	pH:	Sample Date: 07122012	Sample Time: 14:00:00
% Moisture: 13.14		% Solids:	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	4.7	ug/kg	1.0	U	R	No	S4VEM
Chloromethane	4.7	ug/kg	1.0	U	R	No	S4VEM
Vinyl chloride	4.7	ug/kg	1.0	U	R	No	S4VEM
Bromomethane	4.7	ug/kg	1.0	U	R	No	S4VEM
Chloroethane	4.7	ug/kg	1.0	U	R	No	S4VEM
Trichlorofluorom ethane	4.7	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethene	4.7	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	ug/kg	1.0	U	R	No	S4VEM
Acetone	23	ug/kg	1.0		R	No	S4VEM
Carbon Disulfide	4.7	ug/kg	1.0	U	R	No	S4VEM
Methyl acetate	4.7	ug/kg	1.0	U	R	No	S4VEM
Methylene chloride	4.7	ug/kg	1.0	JB	R	No	S4VEM
trans-1,2-Dichloroethene	4.7	ug/kg	1.0	U	R	No	S4VEM
Methyl tert-butyl ether	4.7	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethane	4.7	ug/kg	1.0	U	R	No	S4VEM
cis-1,2-Dichloroethene	4.7	ug/kg	1.0	U	R	No	S4VEM
2-Butanone	9.4	ug/kg	1.0	U	R	No	S4VEM
Bromochloromet hane	4.7	ug/kg	1.0	U	R	No	S4VEM
Chloroform	4.7	ug/kg	1.0	U	R	No	S4VEM
1,1,1-Trichloroethane	4.7	ug/kg	1.0	U	R	No	S4VEM
Cyclohexane	4.7	ug/kg	1.0	U	R	No	S4VEM
Carbon tetrachloride	4.7	ug/kg	1.0	U	R	No	S4VEM
Benzene	4.7	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloroethane	4.7	ug/kg	1.0	U	R	No	S4VEM
1,4-Dioxane	94	ug/kg	1.0	U	R	No	S4VEM
Trichloroethene	4.7	ug/kg	1.0	U	R	No	S4VEM
Methylcyclohexa ne	4.7	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloropropane	4.7	ug/kg	1.0	U	R	No	S4VEM
Bromodichlorom	4.7	ug/kg	1.0	U	R	No	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	4.7	ug/kg	1.0	U	R	No	S4VEM
cis-1,3-Dichloropropene	4.7	ug/kg	1.0	U	R	No	S4VEM
4-Methyl-2-pentanone	9.4	ug/kg	1.0	U	R	No	S4VEM
Toluene	0.54	ug/kg	1.0	J	R	No	S4VEM
trans-1,3-Dichloropropene	4.7	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloroethane	4.7	ug/kg	1.0	U	R	No	S4VEM
Tetrachloroethene	4.7	ug/kg	1.0	U	R	No	S4VEM
2-Hexanone	9.4	ug/kg	1.0	U	R	No	S4VEM
Dibromochloromethane	4.7	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromoethane	4.7	ug/kg	1.0	U	R	No	S4VEM
Chlorobenzene	4.7	ug/kg	1.0	U	R	No	S4VEM
Ethylbenzene	4.7	ug/kg	1.0	U	R	No	S4VEM
o-Xylene	4.7	ug/kg	1.0	U	R	No	S4VEM
m,p-Xylene	4.7	ug/kg	1.0	U	R	No	S4VEM
Styrene	4.7	ug/kg	1.0	U	R	No	S4VEM
Bromoform	4.7	ug/kg	1.0	U	R	No	S4VEM
Isopropylbenzene	4.7	ug/kg	1.0	U	R	No	S4VEM
1,1,2,2-Tetrachloroethane	4.7	ug/kg	1.0	U	R	No	S4VEM
1,3-Dichlorobenzene	4.7	ug/kg	1.0	U	R	No	S4VEM
1,4-Dichlorobenzene	4.7	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichlorobenzene	4.7	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromo-3-chloropropane	4.7	ug/kg	1.0	U	R	No	S4VEM
1,2,4-Trichlorobenzene	4.7	ug/kg	1.0	U	R	No	S4VEM
1,2,3-Trichlorobenzene	4.7	ug/kg	1.0	U	R	No	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZA5RE	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284649	pH:	Sample Date: 07122012	Sample Time: 14:00:00
% Moisture : 13.14		% 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	UJK	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	UJK	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	UJK	Yes	S4VEM
Acetone	14	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	UJK	Yes	S4VEM
Methylene chloride	5.7	ug/kg	1.0	U	UJK	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	UJK	Yes	S4VEM
1,1-Dichloroethane	5.7	ug/kg	1.0	U	UJK	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	UJK	Yes	S4VEM
Chloroform	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,1-Trichloroethane	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
Cyclohexane	5.7	ug/kg	1.0	JB	U	Yes	S4VEM
Carbon tetrachloride	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
Benzene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichloroethane	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
Methylcyclohexa ne	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichloropropane	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromodichlorom	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
cis-1,3-Dichloropropene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
4-Methyl-2-pentanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Toluene	0.77	ug/kg	1.0	J	JQ	Yes	S4VEM
trans-1,3-Dichloropropene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2-Trichloroethane	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
Tetrachloroethene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
2-Hexanone	11	ug/kg	1.0	U	U	Yes	S4VEM
Dibromochloromethane	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dibromoethane	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
Chlorobenzene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
Ethylbenzene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
o-Xylene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
m,p-Xylene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
Styrene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
Bromoform	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
Isopropylbenzene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
1,3-Dichlorobenzene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
1,4-Dichlorobenzene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dichlorobenzene	5.7	ug/kg	1.0	U	UJK	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.7	ug/kg	1.0	U	UJK	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	UJK	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZA6	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284650	pH:	Sample Date: 07122012	Sample Time: 15:40:00
% Moisture : 6.84		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Chloromethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Vinyl chloride	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Bromomethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Chloroethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Trichlorofluorom ethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,1-Dichloroethene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Acetone	26	ug/kg	1.0		U	Yes	S4VEM
Carbon Disulfide	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Methyl acetate	5.5	ug/kg	1.0	U	R	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	R	Yes	S4VEM
Methyl tert-butyl ether	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,1-Dichloroethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
cis-1,2-Dichloroethene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
2-Butanone	11	ug/kg	1.0	U	R	Yes	S4VEM
Bromochloromet hane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Chloroform	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,1,1-Trichloroethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Cyclohexane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Carbon tetrachloride	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Benzene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dichloroethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,4-Dioxane	110	ug/kg	1.0	U	R	Yes	S4VEM
Trichloroethene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Methylcyclohexa ne	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dichloropropane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Bromodichlorom	5.5	ug/kg	1.0	U	R	Yes	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
cis-1,3-Dichloropropene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
4-Methyl-2-pentanone	11	ug/kg	1.0	U	R	Yes	S4VEM
Toluene	11	ug/kg	1.0		JK	Yes	S4VEM
trans-1,3-Dichloropropene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,1,2-Trichloroethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Tetrachloroethene	1100	ug/kg	1.0	E	JK	Yes	S4VEM
2-Hexanone	11	ug/kg	1.0	U	R	Yes	S4VEM
Dibromochloromethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dibromoethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Chlorobenzene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Ethylbenzene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
o-Xylene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
m,p-Xylene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Styrene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Bromoform	5.5	ug/kg	1.0	U	R	Yes	S4VEM
Isopropylbenzene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,1,2,2-Tetrachloroethane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,3-Dichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,4-Dichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,2-Dibromo-3-chloropropane	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,2,4-Trichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	S4VEM
1,2,3-Trichlorobenzene	5.5	ug/kg	1.0	U	R	Yes	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZA6ME	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284650	pH:	Sample Date: 07122012	Sample Time: 15:40:00
% Moisture : 6.84		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	280	ug/kg	1.0	U	R	No	S4VEM
Chloromethane	280	ug/kg	1.0	U	R	No	S4VEM
Vinyl chloride	280	ug/kg	1.0	U	R	No	S4VEM
Bromomethane	280	ug/kg	1.0	U	R	No	S4VEM
Chloroethane	280	ug/kg	1.0	U	R	No	S4VEM
Trichlorofluorom ethane	280	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethene	280	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	280	ug/kg	1.0	U	R	No	S4VEM
Acetone	570	ug/kg	1.0	U	R	No	S4VEM
Carbon Disulfide	280	ug/kg	1.0	U	R	No	S4VEM
Methyl acetate	280	ug/kg	1.0	U	R	No	S4VEM
Methylene chloride	210	ug/kg	1.0	J	R	No	S4VEM
trans-1,2-Dichloroethene	280	ug/kg	1.0	U	R	No	S4VEM
Methyl tert-butyl ether	280	ug/kg	1.0	U	R	No	S4VEM
1,1-Dichloroethane	280	ug/kg	1.0	U	R	No	S4VEM
cis-1,2-Dichloroethene	280	ug/kg	1.0	U	R	No	S4VEM
2-Butanone	570	ug/kg	1.0	U	R	No	S4VEM
Bromochloromet hane	280	ug/kg	1.0	U	R	No	S4VEM
Chloroform	280	ug/kg	1.0	U	R	No	S4VEM
1,1,1-Trichloroethane	280	ug/kg	1.0	U	R	No	S4VEM
Cyclohexane	280	ug/kg	1.0	U	R	No	S4VEM
Carbon tetrachloride	280	ug/kg	1.0	U	R	No	S4VEM
Benzene	280	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloroethane	280	ug/kg	1.0	U	R	No	S4VEM
1,4-Dioxane	5700	ug/kg	1.0	U	R	No	S4VEM
Trichloroethene	280	ug/kg	1.0	U	R	No	S4VEM
Methylcyclohexa ne	280	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichloropropane	280	ug/kg	1.0	U	R	No	S4VEM
Bromodichlorom	280	ug/kg	1.0	U	R	No	S4VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	280	ug/kg	1.0	U	R	No	S4VEM
cis-1,3-Dichloropropene	280	ug/kg	1.0	U	R	No	S4VEM
4-Methyl-2-pentanone	570	ug/kg	1.0	U	R	No	S4VEM
Toluene	280	ug/kg	1.0	U	R	No	S4VEM
trans-1,3-Dichloropropene	280	ug/kg	1.0	U	R	No	S4VEM
1,1,2-Trichloroethane	280	ug/kg	1.0	U	R	No	S4VEM
Tetrachloroethene	280	ug/kg	1.0	U	R	No	S4VEM
2-Hexanone	570	ug/kg	1.0	U	R	No	S4VEM
Dibromochloromethane	280	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromoethane	280	ug/kg	1.0	U	R	No	S4VEM
Chlorobenzene	280	ug/kg	1.0	U	R	No	S4VEM
Ethylbenzene	280	ug/kg	1.0	U	R	No	S4VEM
o-Xylene	280	ug/kg	1.0	U	R	No	S4VEM
m,p-Xylene	280	ug/kg	1.0	U	R	No	S4VEM
Styrene	280	ug/kg	1.0	U	R	No	S4VEM
Bromoform	280	ug/kg	1.0	U	R	No	S4VEM
Isopropylbenzene	280	ug/kg	1.0	U	R	No	S4VEM
1,1,2,2-Tetrachloroethane	280	ug/kg	1.0	U	R	No	S4VEM
1,3-Dichlorobenzene	280	ug/kg	1.0	U	R	No	S4VEM
1,4-Dichlorobenzene	280	ug/kg	1.0	U	R	No	S4VEM
1,2-Dichlorobenzene	280	ug/kg	1.0	U	R	No	S4VEM
1,2-Dibromo-3-chloropropane	280	ug/kg	1.0	U	R	No	S4VEM
1,2,4-Trichlorobenzene	280	ug/kg	1.0	U	R	No	S4VEM
1,2,3-Trichlorobenzene	280	ug/kg	1.0	U	R	No	S4VEM
Naphthalene, 1,5-dimethyl-	550	ug/kg	1.0	JN	R	No	S4VEM
Naphthalene, 1,4-dimethyl-	370	ug/kg	1.0	JN	R	No	S4VEM

Case No: 42677	Contract: EPW11032	SDG No: JRZ04	Lab Code: LIBRTY
Sample Number: JRZA7	Method: VOA_Low_Med	Matrix: Soil	MA Number: DEFAULT
Sample Location: 12284651	pH:	Sample Date: 07122012	Sample Time: 15:55:00
% Moisture : 3.06		% 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	UJK	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	UJK	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	13	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	0.68	ug/kg	1.0	J	JQ	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	0.87	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	31	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	UJK	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

National Functional Guidelines Report #06

Lab LIBRTY(COMPUCHEM) **SDG** JRZ04 **Case** 42677 **Contract** EPW11032 **Region** 10 **DDTID** 156478 **SOW** SOM01.2

Analytical Sample Listing

VOA_Low_Med

						Extraction		Analysis		
Sample Number	**Sample Type**	**Matrix**	**Level**	**Sampling Date**	**Date Received**	**Type**	**Date/Time**	**Date/Time**	**GC Column**	**Instrument**
JRZ04	Field_Sample	Soil	Low	07162012 12:31:00	07182012 09:26:00			07212012 17:06:00	SPB-624	5975hpms91
JRZ04MS	Matrix_Spike	Soil	Low	07162012 12:31:00	07182012 09:26:00			07212012 17:34:00	SPB-624	5975hpms91
JRZ04MSD	Matrix_Spike_Duplicate	Soil	Low	07162012 12:31:00	07182012 09:26:00			07212012 18:02:00	SPB-624	5975hpms91
JRZ09	Field_Sample	Soil	Low	07162012 13:05:00	07182012 09:26:00			07212012 18:31:00	SPB-624	5975hpms91
JRZ11	Field_Sample	Soil	Low	07162012 13:24:00	07182012 09:26:00			07212012 19:02:00	SPB-624	5975hpms91
JRZ12	Field_Sample	Soil	Low	07162012 14:44:00	07182012 09:26:00			07212012 19:30:00	SPB-624	5975hpms91
JRZ13	Field_Sample	Soil	Low	07162012 14:50:00	07182012 09:26:00			07212012 19:58:00	SPB-624	5975hpms91
JRZ14	Field_Sample	Soil	Medium	07162012 14:55:00	07182012 09:26:00			07262012 20:57:00	SPB-624	5975hpms91
JRZ15	Field_Sample	Soil	Low	07162012 15:03:00	07182012 09:26:00			07232012 22:40:00	SPB-624	5972hp73
JRZ32	Field_Sample	Soil	Medium	07132012 14:09:00	07182012 09:26:00			07262012 21:25:00	SPB-624	5975hpms91
JRZ34	Field_Sample	Soil	Low	07142012 08:23:00	07182012 09:26:00			07212012 22:22:00	SPB-624	5975hpms91
JRZ35	Field_Sample	Soil	Low	07142012 10:58:00	07182012 09:26:00			07212012 22:50:00	SPB-624	5975hpms91
JRZ35RE	Field_Sample	Soil	Low	07142012 10:58:00	07182012 09:26:00			07232012 23:08:00	SPB-624	5972hp73
JRZ36	Field_Sample	Soil	Low	07162012 12:15:00	07182012 09:26:00			07212012 23:19:00	SPB-624	5975hpms91
JRZ37	Field_Sample	Soil	Low	07162012 14:44:00	07182012 09:26:00			07212012 23:47:00	SPB-624	5975hpms91
JRZ37RE	Field_Sample	Soil	Low	07162012 14:44:00	07182012 09:26:00			07232012 23:36:00	SPB-624	5972hp73
JRZA0	Field_Sample	Soil	Low	07122012 12:25:00	07182012 09:26:00			07222012 00:15:00	SPB-624	5975hpms91
JRZA1	Field_Sample	Soil	Low	07122012 12:32:00	07182012 09:26:00			07222012 14:32:00	SPB-624	5973hp90
JRZA2	Field_Sample	Soil	Low	07122012 12:35:00	07182012 09:26:00			07222012 15:01:00	SPB-624	5973hp90
JRZA3	Field_Sample	Soil	Low	07122012 12:52:00	07182012 09:26:00			07222012 15:31:00	SPB-624	5973hp90
JRZA4	Field_Sample	Soil	Low	07122012 12:21:00	07182012 09:26:00			07222012 16:00:00	SPB-624	5973hp90
JRZA4RE	Field_Sample	Soil	Low	07122012 12:21:00	07182012 09:26:00			07242012 00:04:00	SPB-624	5972hp73
JRZA5	Field_Sample	Soil	Low	07122012 14:00:00	07182012 09:26:00			07222012 16:29:00	SPB-624	5973hp90
JRZA5RE	Field_Sample	Soil	Low	07122012 14:00:00	07182012 09:26:00			07242012 00:32:00	SPB-624	5972hp73
JRZA6	Field_Sample	Soil	Medium	07122012 15:40:00	07182012 09:26:00			07262012 21:54:00	SPB-624	5975hpms91
JRZA7	Field_Sample	Soil	Low	07122012 15:55:00	07182012 09:26:00			07242012 01:01:00	SPB-624	5972hp73

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Blank Qualification Summary
The following samples have analyte concentrations reported less than five times (<5X) [less than ten times (<10X) for ketones or solvents] the associated storage and/or method blank concentrations. Detected compounds are qualified U and are reported at the CRQL or at the level of detection. Non-detected compounds are not qualified.
Acetone – All Samples Methylene chloride – All Samples except JRZ15, JRZA4RE, JRZA5RE, JRZA7 Cyclohexane – JRZ15, JRZA4RE, JRZA5RE, JRZA7 Toluene – JRZ04, JRZ09, JRZ11, JRZ12, JRZ13, JRZ14, JRZ32, JRZ34, JRZ36, JRZ37, JRZA0 1,2,3-Trichlorobenzene – JRZ04
Initial Calibration Qualification Summary
The following samples are associated with an initial calibration with a Relative Response Factor (RRF) outside criteria (i.e., <0.05). Detected compounds are qualified JK. Non-detected compounds are qualified R.
1,4-Dioxane – All Samples except JRZA1, JRZA2, JRZA3, JRZA6
Continuing Calibration Qualification Summary
The following samples are associated with an opening and closing CCV that are not analyzed at the correct frequency (i.e., outside the 12-hour analysis period). Detected compounds are qualified JK. Non-detected compounds are qualified R.
JRZA1, JRZA2, JRZA3, JRZA6
The following samples are associated with an opening or closing CCV percent difference outside criteria (i.e., Opening CCV >25% Difference, Closing CCV >50% Difference). Detected compounds are qualified JK. Non-detected compounds are qualified UJK.
Dichlorodifluoromethane – JRZ15, JRZA5RE, JRZA7 Chloromethane – JRZ15, JRZA5RE, JRZA7 Trichlorofluoromethane – JRZ15, JRZA7 1,4-Dichlorobenzene – JRZ15, JRZA7 1,2,4-Trichlorobenzene – JRZ15, JRZA7
Deuterated Monitoring Compound Qualification Summary
The following samples have DMC recoveries above the upper limit of the criteria window. Detected compounds associated with the DMC are qualified JK. Non-detected compounds associated with the DMC are not qualified.
1,2-Dichloropropane-d_6 – JRZ14

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VOLATILE ORGANIC ANALYSIS

Deuterated Monitoring Compound Qualification Summary

The following samples have DMC recoveries below the lower limit of the criteria window. Detected compounds associated with the DMC are qualified JK. Non-detected compounds associated with the DMC are qualified UJK.

Vinyl chloride-d_3 – JRZ35, JRZ37
1,1-Dichloroethene-d_2 – JRZ35
Chloroform-d – JRZ35, JRZA5RE
1,2-Dichloroethane-d_4 – JRZ15, JRZ32, JRZ35, JRZ37, JRZA5RE
Benzene-d_6 – JRZ35, JRZA5RE
1,2-Dichloropropane-d_6 – JRZ35, JRZA5RE
Toluene-d_8 – JRZ35, JRZ37, JRZA5RE
trans-1,3-Dichloropropene-d_4 – JRZ15, JRZ35, JRZA5RE
1,1,2,2-Tetrachloroethane-d_2 – JRZ35, JRZA5RE
1,2-Dichlorobenzene -d_4 – JRZ15, JRZ35, JRZ37, JRZA5RE

Internal Standard Qualification Summary

The following samples have area counts less than fifty percent (<50%) of the 12-hour standard. Detected compounds associated with the internal standard are qualified JH. Non-detected compounds associated with the internal standard are qualified UJK.

Chlorobenezene-d_5 – JRZA4RE
1,4-Difluorobenzene – JRZA4RE
1,4-Dichlorobenzene-d_4 – JRZA4RE

Dilution Qualification Summary

The following samples were reanalyzed as medium level solids to bring compound concentrations within the linear range of the instrument; however, the medium level results were non-detected. Detected compounds from the initial undiluted analysis are qualified JK. Non-detected compounds are not qualified.

Tetrachloroethene – JRZ32, JRZA6

Detection Limit Qualification Summary

The following samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified JQ. Non-detected compounds are not qualified.

Carbon disulfide – JRZ14
Methylene chloride – JRZA4RE, JRZA7
cis-1,2-Dichloroethene – JRZ14
2-Butanone – JRZ12, JRZ13, JRZ37, JRZA0
Trichloroethene – JRZ11, JRZ14
Toluene – JRZ15, JRZA1, JRZA2, JRZA3, JRZA4RE, JRZA5RE, JRZA7
Tetrachloroethene – JRZ09, JRZ12, JRZ13, JRZ14, JRZ34, JRZ37
m,p-Xylene – JRZA3