

NOTE TO THE COMMUNITY:

The attached Report, “Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Report” was submitted to the Illinois Environmental Protection Agency on February 18, 2010, completing the investigation required by the Illinois EPA’s May 12, 2009 letter. The report and its conclusions are currently under review by the agency, and as such are subject to potential revision.

REPORT SUMMARY

Shell Oil Products US (SOPUS) conducted a multimedia subsurface investigation (e.g., soil, groundwater, soil vapor) in the Village of Roxana as outlined in the *Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Work Plan for Roxana, Illinois* (January 21, 2009).

The primary objectives of this investigation were to: refine our understanding of the extent of benzene impact in the subsurface; assess the nature and extent of dissolved hydrocarbons in groundwater in the area west of the WRB Refining LLC Wood River Refinery (WRR) west fence line; and gather data to assist in the delineation of the extent of petroleum product historically observed in groundwater beneath the WRR in the area of Monitoring Well P-60. The field investigation was conducted during multiple mobilizations between June and November 2009. These investigations were used to supplement previous investigations by URS Corporation and others.

From the results of this investigation, SOPUS has concluded:

- “Soil exposure does not pose a risk, except with respect to construction workers along the pipeline corridor. These potential risks are managed via safe work procedures.
- No LNAPL product (*separate phase petroleum product*) has been measured in the village.
- Exposure to groundwater does not pose a risk. Only a limited area of groundwater in the Village exceeds Class I screening criteria. The groundwater ordinance prevents exposure via prohibition on water wells. The use of production water, and Part B permit-required pumping at the WRR has a significant impact on the capture and treatment of groundwater in the area.
- Soil vapors do not appear to pose a risk; however two specific areas will be further evaluated.”

As a result of this work and previous investigations, SOPUS submitted recommendations for additional work. The results of the work will be presented to the Illinois EPA along with a revised “Conclusions and Recommendations” in a brief letter report.

R E P O R T

DISSOLVED PHASE
GROUNDWATER
INVESTIGATION AND P-60
FREE PHASE PRODUCT
DELINEATION

Roxana, Illinois

VOLUME III
Appendix I - L

Prepared for:

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February 2010



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**QUALITY ASSURANCE REPORT
ALL RESULTS TABLES**

GROUNDWATER PROFILING SAMPLE DELIVERY GROUPS:

339015

GWP-1-50 GWP-1-58

339108

GWP-2-50 GWP-2-58 GWP-3-50 GWP-3-58

339231

GWP-4-50 GWP-6-58 GWP-6-50 D
GWP-4-58 GWP-6-50

339233

GWP-1-50 GWP-2-50 GWP-3-58 GWP-6-50
GWP-1-58 GWP-2-58 GWP-4-50 GWP-6-50D
TB072709 GWP-3-50 GWP-4-58 GWP-6-58

339351

GWP-7-50 GWP-7-58 GWP-5-50 GWP-5-58

339466

GWP-8-50 GWP-8-58 GWP-9-50 EB

339467

GWP-7-50 GWP-5-50 TB073009 GWP-8-58
GWP-7-58 GWP-5-58 GWP-8-50 GWP-9-50 EB

339558

GWP-9-50 GWP-9-58 GWP-10-50 GWP-10-58

339700

GWP-12-58 GWP-12-50

339882

GWP-13-50 GWP-13-58 GWP-14-50

339883

GWP-9-50 GWP-10-58 GWP-12-50 GWP-14-50
GWP-9-58 TB080309 GWP-13-50 GWP-14-58
GWP-10-50 GWP-12-58 GWP-13-58

340156

GWP-15-50EB GWP-15-50 GWP-15-58

340270

GWP-11-50 GWP-15-50 EB GWP-15-58 GWP-16-58
GWP-11-58 GWP-15-50 GWP-16-50 TB080609

340653

GWP-18-50 GWP-18-58 GWP-18-58D

340792

GWP-17-58	GWP-18-50	GWP-19-50	GWP-20-58
GWP-17-50	GWP-18-58	GWP-19-58	
TB08102009	GWP-18-58D	GWP-20-50	

SOIL SAMPLE DELIVERY GROUP:

342449

GP-9-18	GP-7-37	GP-7-25	GP-8-47
GP-9-37	GP-7-37D	GP-8-13	GP-8-47D
TB082509	GP-7-41	GP-8-35	

ROUTE 111 DATA – SOIL AND GROUNDWATER SAMPLE DELIVERY GROUPS:

343257

GP-4-11	GP-2-23.5D	GP-4-34D	GP-1-31D
GP-4-22.5	GP-2-23.5	GP-4-42	GP-1-22.5
GP-4-33	TB083109	GP-1-31EB	GP-1-34
GP-2-17	GP-4-34	GP-1-31	GP-1-42

343431

GWP-21-34EB	GWP-21-42	GWP-21-34
TB090309	GWP-21-42D	

GROUNDWATER SAMPLE DELIVERY GROUP:

349660

MW-8-102209	MW-7-102309	MW-8-102209D	MW-7-102309
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SOIL VAPOR SAMPLE DELIVERY GROUPS:

0911102A

VMP-1-5	VMP-1-38.5	VMP-2-8.5-D	VMP-3-22
VMP-1-5 Duplicate	VMP-2-5	VMP-2-22	VMP-3-31.5
VMP-1-8.5	VMP-2-8.5	VMP-2-42	VMP-3-39
VMP-1-23.5	VMP-2-8.5 Duplicate	VMP-3-5	

0911102B

VMP-1-5	VMP-2-5	VMP-2-42	VMP-3-31.5
VMP-1-8.5	VMP-2-8.5	VMP-2-42 Duplicate	VMP-3-39
VMP-1-23.5	VMP-2-8.5-D	VMP-3-5	
VMP-1-38.5	VMP-2-22	VMP-3-22	

0911151A

VMP-301-5	VMP-301-38.5	VMP-401-5	VMP-401-38.5
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0911151B

VMP-301-5	VMP-301-38.5	VMP-401-5	VMP-401-38.5
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0911152A

VMP-4-5	VMP-4-39	VMP-5-12.5	VMP-5-40
VMP-4-12	VMP-5-5	VMP-5-12.5-D	VMP-6-5
VMP-4-23.5	VMP-5-5 Duplicate	VMP-5-31	VMP-6-10

0911152B

VMP-4-5	VMP-4-23.5	VMP-5-12.5	VMP-5-40
VMP-4-5 Duplicate	VMP-4-39	VMP-5-12.5-D	VMP-6-5
VMP-4-12	VMP-5-5	VMP-5-31	VMP-6-10

0911275A

VMP-6-31.5	VMP-7-29.5	VMP-9-38.5	VMP-9-5
VMP-6-39	VMP-7-38	VMP-9-25.5	VMP-10-5
VMP-7-5	VMP-8-5	VMP-9-25.5-D	
VMP-7-5 Duplicate	VMP-8-9.5	VMP-9-25.5-D Duplicate	
VMP-7-13.5	VMP-8-23.5	VMP-9-11.5	

0911275B

VMP-6-31.5	VMP-7-38	VMP-9-25.5	VMP-10-5
VMP-6-39	VMP-8-5	VMP-9-25.5-D	VMP-10-10
VMP-7-5	VMP-8-9.5	VMP-9-11.5	
VMP-7-13.5	VMP-8-23.5	VMP-9-5	
VMP-7-29.5	VMP-9-38.5	VMP-9-5 Duplicate	

0911391A

VMP-10-30	VMP-12-39	VMP-14-29	VMP-13-29.5
VMP-12-5	VMP-13-5	VMP-13-10.5	VMP-11-5
VMP-12-11.5	VMP-14-11.5	VMP-13-10.5-D	VMP-11-5 Duplicate
VMP-12-25	VMP-14-20	VMP-13-21.5	VMP-11-8

0911391B

VMP-10-30	VMP-13-5	VMP-13-10.5	VMP-11-5
VMP-12-5	VMP-13-5 Duplicate	VMP-13-10.5-D	VMP-11-8
VMP-12-11.5	VMP-14-11.5	VMP-13-10.5-D Lab Duplicate	
VMP-12-25	VMP-14-20	VMP-13-21.5	
VMP-12-39	VMP-14-29	VMP-13-29.5	

0911502A

VMP-11-29	VMP-15-21.5	VMP-16-13.5	VMP-16-31-D
VMP-11-38	VMP-15-21.5 Duplicate	VMP-16-19	VMP-15-29
VMP-15-5	VMP-15-25.5	VMP-16-31	VMP-14-5
VMP-15-5-D			VMP-16-5

0911502B

VMP-11-29	VMP-15-21.5	VMP-16-19	VMP-14-5
VMP-11-38	VMP-15-25.5	VMP-16-31	VMP-14-5 Duplicate
VMP-15-5	VMP-16-13.5	VMP-16-31-D	VMP-16-5
VMP-15-5-D	VMP-16-13.5 Duplicate	VMP-15-29	

Quality Assurance Report

QUALITY ASSURANCE REPORT

Shell Oil Products US

Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Data Report

Roxana, Illinois

Prepared for

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January 2010

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1.0 INTRODUCTION

This Quality Assurance Report presents the findings of a review of analytical data for groundwater profiling samples collected in July and August of 2009, monitoring well samples collected in October of 2009, soil samples collected in August 2009 and vapor samples collected in October and November 2009 at the Route 111 Site as part of the Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation project. The samples were collected by URS Corporation personnel. The groundwater and soil samples were analyzed by Xenco Laboratories located in Stafford, Texas using USEPA SW-846 methodologies. The vapor samples were analyzed by Air Toxics, LTD of Folsom, California using modified USEPA methodologies and standard methods. Groundwater samples were tested for volatile organic compounds (VOCs), and semivolatiles compounds (SVOCs). Soil samples were tested for VOCs and vapor samples were tested for VOCs and natural gas components.

One hundred percent of the data were subjected to a data quality review (Level III validation). Please see **Appendix F** for the Level III validation reports. The Level III validations were performed in order to confirm that the analytical data provided by Xenco and Air Toxics were acceptable in quality for their intended use.

A total of 56 groundwater profiling samples (46 investigative samples, 4 field duplicates, 3 MS/MSD pairs and 3 equipment blanks) and a total of 3 monitoring well samples (2 investigative samples and 1 field duplicate) were analyzed by Xenco. In addition, eight trip blank sets were included in the coolers that contained groundwater samples for VOC analysis and were analyzed for VOCs by USEPA SW-846 Method 8260B. These samples were analyzed as 16 Sample Delivery Groups (SDGs) 339015, 339108, 339231, 339233, 339351, 339466, 339467, 339558, 339770, 339882, 339883, 340156, 340270, 340653, 340792, 343257, 343431, 349660 utilizing the following USEPA SW-846 Methods:

- Method 8260B for VOCs
- Method 8270C for SVOCs

For soil, a total of 22 samples (16 investigative, 4 field duplicates, 1 MS/MSD pair and 1 equipment blank) were prepared and analyzed by Xenco for VOCs. In addition, one trip blank was included in the cooler that contained soil samples for VOC analysis. The results for VOC analysis were submitted as SDG 342449 utilizing the following USEPA SW-846 Methods:

- Method 8260B for VOCs
- Method 8270C for SVOCs

In addition, for vapor sampling a total of 74 samples (67 investigative and 7 field duplicates) were prepared and analyzed by Air Toxics LTD for VOCs and natural gas components analysis. The results for VOC and natural gas components analysis were submitted as SDGs: 0911102A, 0911102B, 0911151A, 0911151B, 0911152A, 0911152B, 0911275A, 0911275B, 0911391A, 0911391B, 0911502A and 0911502B utilizing the following USEPA Methods:

- Method modified TO-15 for VOCs

Vapor samples were also analyzed for natural gas components by the following method:

- Method modified ASTM D-1946 for natural gas components (Oxygen, Nitrogen, Carbon monoxide, Carbon dioxide, Methane, Ethane and Ethene)

Samples were reviewed following procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA 2008) and the Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Work Plan (URS 2009).

The above guidelines provided the criteria to review the data. Additional quantitative criteria are given in the analytical methods. Qualifiers assigned by the data reviewer have been applied to the laboratory reporting forms (Form-1s). The qualifiers indicate data that did not meet acceptance criteria and corrective actions were not successful or not performed. The various qualifiers are explained in **Tables 1** and **2** below:

TABLE 1 Laboratory Data Qualifiers

Lab Qualifier	Definition
U	Analyte was not detected at or above the reporting limit.
Q	Exceeds quality control limits. (Vapor)
E	Result exceeded the calibration range, secondary dilution required.
D	Compounds analyzed at a dilution will be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Spike recovery exceeds upper or lower control limits.
F	MS, MSD or RPD exceeds upper or lower control limits.
B	Compound was found in the blank and sample.
UJ	Non-detected compound associated with low bias in the CCV.

TABLE 2 URS Data Qualifiers

	Definition
U	The analyte was analyzed for but was not detected.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Based on the criteria outlined, it is recommended that the results reported for these analyses are accepted for their intended use. Acceptable levels of accuracy, precision, and representativeness (based on MS/MSD, LCS, surrogate compounds and field duplicate results) were achieved for this data set, except where noted in this report. In addition, analytical completeness, defined as the percentage of analytical results that are judged to be valid, including estimated detect/nondetect (J/UJ) data was 100 percent.

The data review included evaluation of the following criteria:

Organics

- Receipt condition and sample holding times
- Laboratory method blanks, field equipment blanks and trip blank samples
- Surrogate spike recoveries
- Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries and relative percent difference (RPD) values
- Matrix spike/matrix spike duplicate (MS/MSD) sample recoveries and RPD values
- Field duplicate results
- Results reported from dilutions

Vapor and natural gas components chemistry

- Receipt condition and sample holding times

- Laboratory method blank
- LCS recoveries
- Continuing calibration verification results
- Field duplicate and laboratory duplicate results
- Results reported from dilutions

The following sections present the results of the data review.

2.0 RECEIPT CONDITION AND SAMPLE HOLDING TIMES

Sample holding time requirements for the analyses performed are presented in the methods and/or in the data review guidelines. Review of the sample collection, extraction and analysis dates involved comparing the chain-of-custody and the laboratory data summary forms for accuracy, consistency, and holding time compliance.

Upon review of the cooler receipt forms, there were discrepancies between the sample labels and COCs in some SDGs. Whenever there were sample label or sample time discrepancies the laboratory contacted URS and was directed which sample ID were correct. All sample discrepancies were resolved prior to sample analysis. No qualification of data was required. Some samples were received by the laboratory outside the $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ temperature range criteria. Samples were received by the laboratory in good condition; therefore, no qualification of data was required. Cooler receipt issues are further discussed in data reviews in **Appendix F**.

3.0 TRIP BLANKS, LABORATORY METHOD BLANK AND EQUIPMENT BLANK SAMPLES

Trip blank samples are used to assess VOC cross contamination of samples during shipment to the laboratory. Trip blanks were submitted with each cooler shipped containing samples for aqueous and soil VOC analyses for a total of seven trip blank sample sets. Trip blanks samples were non-detect with the exceptions of those that are further discussed in data reviews in **Appendix F**. All associated samples were non-detect; therefore, no qualification of data was required.

Laboratory method blank samples evaluate the existence and magnitude of contamination problems resulting from laboratory activities. All laboratory method blank samples were analyzed at the method prescribed frequencies. Method blank samples were non-detect with the exceptions of those that are further discussed in data reviews in **Appendix F**. All associated samples were non-detect; therefore, no qualification of data was required.

Equipment blank samples are used to assess the effectiveness of equipment decontamination procedures. Equipment blank samples were non-detect with the exceptions of those that are further discussed in data reviews in **Appendix F**. All associated samples were either non-detect or had concentrations greater than five times (5x) the associated blank concentration. No qualification of data was required.

4.0 SURROGATE SPIKE RECOVERIES

Surrogate compounds are used to evaluate overall laboratory performance for sample preparation efficiency on a per sample basis. Samples analyzed for VOCs and SVOCs were spiked with surrogate compounds during sample preparation. USEPA National Functional Guidelines for Superfund Organic Methods Data Review state how data is qualified, if surrogate spike recoveries did not meet acceptance criteria.

Groundwater surrogate recoveries were within evaluation criteria with the exception of those that are further discussed in data reviews in **Appendix F**. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Soil surrogate recoveries were within evaluation criteria; therefore, no qualification of data was required.

Vapor surrogate recoveries were within evaluation criteria with the exception of those that are further discussed in data reviews in **Appendix F**. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

5.0 LABORATORY CONTROL SAMPLE RECOVERIES

Laboratory control samples (LCS) are analyzed with each analytical batch to assess the accuracy of the analytical process. Groundwater LCS recoveries were within evaluation criteria with the exception of those that are further discussed in data reviews in **Appendix F**. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Soil LCS recoveries were within evaluation criteria; therefore, no qualification of data was required.

Vapor LCS recoveries were within evaluation criteria with the exception of those that are further discussed in data reviews in **Appendix F**. Analytical data which were reported as nondetect and

associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

6.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) SAMPLES

MS/MSD samples are analyzed to assess the accuracy and precision of the analytical process on an analytical sample in a particular matrix. MS/MSD samples were required to be collected at a frequency of one per 20 investigative samples in accordance with the work plan. URS Corporation submitted three MS/MSD sample sets for 48 investigative groundwater samples meeting the work plan frequency requirement. One MS/MSD was collected for the 16 investigative soil samples, and the laboratory spiked sample GP-9-37 for VOCs, meeting the work plan frequency requirement.

No qualifications were made to the data if the MS/MSD percent RPD was the only factor out of criteria. Also, USEPA National Functional Guidelines for Superfund Organic Methods Data Review (June 2008) states that organic data should not be qualified based on MS/MSD criteria alone. Therefore, if recoveries were outside evaluation criterion due to matrix interference or abundance of analytes, no qualifiers were assigned unless these analytes had other quality control criteria outside evaluation criteria.

Groundwater samples spiked and analyzed as MS/MSDs and their respective recoveries are discussed further in data reviews in **Appendix F**. No qualification of data was required.

Soil samples spiked and analyzed as MS/MSDs and their respective recoveries are discussed further in data reviews in **Appendix F**. No qualification of data was required.

Vapor samples are unable to be spiked due to the inability to add spiking material to summa canisters. No qualification of data was required.

7.0 FIELD DUPLICATE RESULTS

Field duplicate results are used to evaluate precision of the entire data collection activity, including sampling, analysis and site heterogeneity. When results for both duplicate and sample values are greater than five times the practical quantitation limit (PQL), satisfactory precision is indicated by an RPD less than or equal to 25 percent for aqueous samples and 50 percent for soil samples. Where one or both of the results of a field duplicate pair are reported at less than five times the PQL, satisfactory precision is indicated if the field duplicate results agree within 2 times the quantitation limit. Field duplicate results that do not meet these criteria may indicate unsatisfactory precision of the results.

Five field duplicate samples were collected for the 48 investigative groundwater samples. This satisfies the requirement in the work plan (one per 10 investigative samples or 10 percent). Groundwater field duplicate RPDs were within evaluation criteria with the exception of those that are further discussed in data reviews in **Appendix F**. Data was qualified due to a greater than two times (2X) the reporting limit difference between the parent and field duplicate sample results.

Four field duplicate samples were collected for the 16 investigative soil samples. This satisfies the requirement in the work plan (one per 10 investigative samples or 10 percent). Soil field duplicate RPDs were within evaluation criteria with the exception of those that are further discussed in data reviews in **Appendix F**. Data was qualified due to field duplicate RPDs greater than 50%.

Seven field duplicate samples were collected for the 67 investigative vapor samples. This satisfies the requirement in the work plan (one per 10 investigative samples or 10 percent). Vapor field duplicate RPDs were within evaluation criteria with the exception of those that are further discussed in data reviews in **Appendix F**. Data was qualified due to field duplicate RPDs greater than 25%.

8.0 RESULTS REPORTED FROM DILUTIONS

VOC and SVOC for groundwater samples, VOCs for soil sample and vapor samples were diluted when high levels of target analytes were present. The diluted sample results for these analytes were reported for the associated samples.

Natural gas components did not require a dilution.

9.0 ADDITIONAL QUALIFICATIONS

Additional qualifications were applied using professional judgment. Professional judgment was used to qualify data based on common laboratory contaminants, low vapor CCVs, sample results exceeding the calibration range of the instrument and potential volatilization of VOCs due to the laboratory extracting VOC sample from moisture sample container. Data qualified using professional judgment are further discussed in the data reviews in **Appendix F**.

All Results Tables

**TABLE I-1
ALL RESULTS - SOIL SAMPLING**

Location	Sample ID	Sample Depth	Sample Date	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene	Acetone	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane		
Soil Samples (mg/kg)																													
GP-1	GP-1-22.5	22.5 ft	9/2/2009	<0.004	<0.004	<0.004	<0.009	<0.004	0.019 J	<0.004	<0.004	<0.004	<0.004	<0.004	<0.043	<0.004	0.001 J	0.002 J	<0.043	<0.004	<0.004	<0.009	<0.004	<0.009	<0.004	<0.004	<0.004	<0.004	
	GP-1-31EB	NA	9/2/2009	<0.005	<0.005	<0.005	<0.01	<0.005	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	
	GP-1-31	31 ft	9/2/2009	<0.004	<0.004	<0.004	<0.009	<0.004	<0.09	<0.004	<0.004	<0.004	<0.004	<0.004	<0.045	<0.004	<0.004	<0.004	<0.045	<0.004	<0.004	<0.009	<0.004	<0.009	<0.004	<0.004	<0.004	<0.004	
	GP-1-31D	31 ft	9/2/2009	<0.004	<0.004	<0.004	<0.008	<0.004	<0.082	<0.004	<0.004	<0.004	<0.004	<0.004	<0.041	<0.004	<0.004	<0.004	<0.041	<0.004	<0.004	<0.008	<0.004	<0.008	<0.004	<0.004	<0.004	<0.004	
GP-2	GP-2-17	17 ft	8/31/2009	<0.005	<0.005	<0.005	<0.01	<0.005	<0.104	<0.005	<0.005	<0.005	<0.005	<0.005	<0.052	<0.005	<0.005	<0.005	<0.052	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	
	GP-2-23.5	23.5 ft	8/31/2009	<0.005	<0.005	<0.005	<0.01	<0.005	<0.104	<0.005	<0.005	<0.005	<0.005	<0.005	<0.052	<0.005	<0.005	<0.005	<0.052	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	
GP-4	GP-2-23.5D	23.5 ft	8/31/2009	<0.004	<0.004	<0.004	<0.009	<0.004	<0.09	<0.004	<0.004	<0.004	<0.004	<0.004	<0.045	<0.004	<0.004	<0.004	<0.045	<0.004	<0.004	<0.009	<0.004	<0.009	<0.004	<0.004	<0.004	<0.004	
	GP-4-11	11 ft	8/31/2009	0.002 J	0.002 J	<0.009	0.005 J	0.002 J	<0.176	<0.009	<0.009	<0.009	<0.009	<0.009	<0.088	<0.009	<0.009	0.005 J	<0.088	<0.009	<0.009	<0.018	<0.009	<0.018	<0.009	<0.009	<0.009	<0.009	
	GP-4-22.5	22.5 ft	8/31/2009	<0.005	<0.005	<0.005	<0.009	<0.005	<0.094	<0.005	<0.005	<0.005	<0.005	<0.005	<0.047	<0.005	<0.005	<0.005	<0.047	<0.005	<0.005	<0.009	<0.005	<0.009	<0.005	<0.005	<0.005	<0.005	
GP-7	GP-4-33	33 ft	8/31/2009	0.003 J	<0.005	<0.005	<0.01	<0.005	<0.102	<0.005	<0.005	<0.005	<0.005	<0.005	<0.051	<0.005	<0.005	<0.005	<0.051	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	
	GP-7-37	3 ft	8/26/2009	0.987 J	5.37 J	3.45 J	16.1 J	7.99 J	<6.82 UJ	<0.341 UJ	<0.341 UJ	<0.341 UJ	<0.341 UJ	<0.341 UJ	<3.41 UJ	0.586 J	0.121 J J	<0.341 UJ	<3.41 UJ	<0.341 UJ	<0.341 UJ	<0.682 UJ	<0.341 UJ	<0.682 UJ	<0.341 UJ	<0.341 UJ	<0.341 UJ	<0.341 UJ	
	GP-7-37D	3 ft	8/26/2009	0.878 J	4.75 J	3.05 J	14.1 J	7.12 J	<6.36 UJ	<0.318 UJ	<0.318 UJ	<0.318 UJ	<0.318 UJ	<0.318 UJ	<3.18 UJ	0.491 J	0.103 J J	<0.318 UJ	<3.18 UJ	<0.318 UJ	<0.318 UJ	<0.636 UJ	<0.318 UJ	<0.636 UJ	<0.318 UJ	<0.318 UJ	<0.318 UJ	<0.318 UJ	
	GP-7-41	3 ft	8/26/2009	2.18 J	12.8 J	1.86 J	39.4 J	16.4 J	<13.1 UJ	<0.657 UJ	<0.657 UJ	<0.657 UJ	<0.657 UJ	<0.657 UJ	<6.57 UJ	0.997 J	0.276 J J	<0.657 UJ	<6.57 UJ	<0.657 UJ	<0.657 UJ	<1.31 UJ	<0.657 UJ	<1.31 UJ	<0.657 UJ	<0.657 UJ	<0.657 UJ	<0.657 UJ	
GP-8	GP-7-25	3 ft	8/26/2009	<0.005	0.002 J	<0.005	0.004 J	0.002 J	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	
	GP-8-13	13 ft	8/26/2009	0.002 J	0.005	<0.005	0.006 J	<0.005	<0.093	<0.005	<0.005	<0.005	<0.005	<0.005	<0.046	0.005	0.002 J	<0.005	<0.046	<0.005	<0.005	<0.009	<0.005	<0.009	<0.005	<0.005	<0.005	<0.005	
	GP-8-35	35 ft	8/26/2009	0.006	0.007	0.001 J	0.003 J	<0.005	<0.091	<0.005	<0.005	<0.005	<0.005	<0.005	<0.012	<0.005	<0.005	<0.005	<0.046	<0.005	<0.005	<0.009	<0.005	<0.009	<0.005	<0.005	<0.005	<0.005	
	GP-8-47	47 ft	8/26/2009	<0.006 UJ	0.002 J J	<0.006 UJ	0.003 J J	<0.006 UJ	<0.026	<0.006	<0.006	<0.006	<0.006	<0.006	<0.056	0.005 J J	<0.006 UJ	<0.006	<0.056	<0.006	<0.006	<0.011	<0.006	<0.011	<0.006	<0.006	<0.006	<0.006	
GP-9	GP-8-47D	47 ft	8/26/2009	1.48 J	1.88 J	0.059 J J	1.98 J	0.137 J J	<4.69	<0.235	<0.235	<0.235	<0.235	<0.235	<2.35	0.235 J	0.063 J J	<0.235	<2.35	<0.235	<0.235	<0.469	<0.235	<0.469	<0.235	<0.235	<0.235	<0.235	
	GP-9-18	18 ft	8/25/2009	2.78 J	60.6	94.2	162	69.2	<101	<5.07	<5.07	<5.07	<5.07	<5.07	<50.7	10	2.08 J	<5.07	<50.7	<5.07	<5.07	<10.1	<5.07	<10.1	<5.07	<5.07	<5.07	<5.07	
Trip Blank	GP-9-37	37 ft	8/25/2009	0.004 J	0.241	0.008	1.04 D	0.395 D	<0.122	<0.006	<0.006	<0.006	<0.006	<0.006	<0.061	0.089	0.031	<0.006	<0.061	<0.006	<0.006	<0.012	<0.006	<0.012	<0.006	<0.012	<0.006	<0.006	
	TB082509	NA	8/25/2009	<0.005	<0.005	<0.005	<0.01	<0.005	0.0205 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	
	TB083109	NA	8/31/2009	<0.005	<0.005	<0.005	<0.01	<0.005	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	
	TB090309	NA	9/3/2009	<0.005	<0.005	<0.005	<0.01	<0.005	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005	

NOTES

- 1) NA = Not Applicable
- 2) Sample ID ending with "EB" denotes a field equipment blank sample.
- 3) Sample ID ending with "D" denotes field duplicate sample.

QUALIFIERS

- D = Diluted sampled. Dilution factors included in results.
 J = The result is estimated.
 U = Not detected.

**TABLE I-1
ALL RESULTS - SOIL SAMPLING**

Location	Sample ID	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Hexachlorobutadiene	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	Methyl tert-Butyl Ether	n-Propylbenzene			
Soil Samples (mg/kg)																													
GP-1	GP-1-22.5	22.5 ft	9/2/2009	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.017	< 0.004	< 0.004		
	GP-1-31EB	NA	9/2/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		
	GP-1-31	31 ft	9/2/2009	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.018	< 0.004	< 0.004		
	GP-1-31D	31 ft	9/2/2009	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.016	< 0.004	< 0.004		
GP-2	GP-2-17	17 ft	8/31/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.021	< 0.005	< 0.005		
	GP-2-23.5D	23.5 ft	8/31/2009	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.018	< 0.004	< 0.004		
GP-4	GP-4-11	11 ft	8/31/2009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.035	0.005 J	0.003 J		
	GP-4-22.5	22.5 ft	8/31/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.019	< 0.005	< 0.005		
	GP-4-33	33 ft	8/31/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.005		
GP-7	GP-7-37	3 ft	8/26/2009	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	0.504 J	0.07 J J	< 1.36 UJ	< 0.341 UJ	1.62 J
	GP-7-37D	3 ft	8/26/2009	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	0.442 J	< 0.318 UJ	< 1.27 UJ	< 0.318 UJ	1.39 J
	GP-7-41	3 ft	8/26/2009	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	0.878 J	0.141 J J	< 2.63 UJ	< 0.657 UJ	3.02 J
	GP-7-25	3 ft	8/26/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.005		
GP-8	GP-8-13	13 ft	8/26/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.003 J	0.002 J	< 0.019	< 0.005	0.006
	GP-8-35	35 ft	8/26/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.018	< 0.005	0.001 J	
	GP-8-47	47 ft	8/26/2009	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006 UJ	< 0.006 UJ	< 0.023	< 0.006	0.002 J J
GP-9	GP-8-47D	47 ft	8/26/2009	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	0.228 J J	0.049 J J	< 0.938	< 0.235	0.543 J
	GP-9-18	18 ft	8/25/2009	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	7.07	1.51 J	< 14.7	< 5.07	19.9
Trip Blank	GP-9-37	37 ft	8/25/2009	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	0.059	0.042	< 0.024	< 0.006	0.136
	TB082509	NA	8/25/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	TB083109	NA	8/31/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	TB090309	NA	9/3/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

NOTES

- 1) NA = Not Applicable
- 2) Sample ID ending with "EB" denotes a field equipment blank sample.
- 3) Sample ID ending with "D" denotes field duplicate sample.

QUALIFIERS

- D = Diluted sampled. Dilution factors included in results.
- J = The result is estimated.
- U = Not detected.

**TABLE I-1
ALL RESULTS - SOIL SAMPLING**

Location	Sample ID	Sample Depth	Sample Date	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	
Soil Samples (mg/kg)																			
GP-1	GP-1-22.5	22.5 ft	9/2/2009	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.043	< 0.002	
	GP-1-31EB	NA	9/2/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.002	
	GP-1-31	31 ft	9/2/2009	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.045	< 0.002	
	GP-1-31D	31 ft	9/2/2009	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.041	< 0.002	
GP-2	GP-2-17	17 ft	8/31/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.052	< 0.002	
	GP-2-23.5	23.5 ft	8/31/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.052	< 0.002	
	GP-2-23.5D	23.5 ft	8/31/2009	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.045	< 0.002	
GP-4	GP-4-11	11 ft	8/31/2009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	0.011	0.003 J	< 0.088	< 0.004	
	GP-4-22.5	22.5 ft	8/31/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.047	< 0.002	
	GP-4-33	33 ft	8/31/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.002 J	< 0.005	< 0.051	< 0.002	
GP-7	GP-7-37	3 ft	8/26/2009	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	< 0.341 UJ	8.49 J	2.32 J	< 3.41 UJ	< 0.136 UJ
	GP-7-37D	3 ft	8/26/2009	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	< 0.318 UJ	7.32 J	2.04 J	< 3.18 UJ	< 0.127 UJ
	GP-7-41	3 ft	8/26/2009	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	< 0.657 UJ	17.6 J	4.83 J	< 6.57 UJ	< 0.263 UJ
	GP-7-25	3 ft	8/26/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.004 J	< 0.005	< 0.05	< 0.002	
GP-8	GP-8-13	13 ft	8/26/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.004 J	0.001 J	< 0.046	< 0.002	
	GP-8-35	35 ft	8/26/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.002 J	< 0.005	< 0.046	< 0.002	
	GP-8-47	47 ft	8/26/2009	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	0.006 J	0.002 J J	< 0.056	< 0.002	
GP-9	GP-8-47D	47 ft	8/26/2009	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	1.3 J	0.458 J	< 2.35	< 0.094	
	GP-9-18	18 ft	8/25/2009	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	93.4	26	< 50.7	< 2.03	
Trip Blank	GP-9-37	37 ft	8/25/2009	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	1.31 D	0.206	< 0.061	< 0.002	
	TB082509	NA	8/25/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.002	
	TB083109	NA	8/31/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.002	
	TB090309	NA	9/3/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.002	

NOTES

- 1) NA = Not Applicable
- 2) Sample ID ending with "EB" denotes a field equipment blank sample.
- 3) Sample ID ending with "D" denotes field duplicate sample.

QUALIFIERS

- D = Diluted sampled. Dilution factors included in results.
 J = The result is estimated.
 U = Not detected.

TABLE I-2
ALL RESULTS - GROUNDWATER SAMPLING

Table with columns: Location, Sample ID, Sample Depth, Sample Date, and various chemical compounds (Benzene, Ethylbenzene, Toluene, m,p-Xylene, o-Xylene, Acetone, Bromobenzene, Bromochloromethane, Bromodichloromethane, Bromoform, Bromomethane, 2-Butanone, n-Butylbenzene, tert-Butylbenzene, sec-Butylbenzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, 2-Chlorotoluene, 4-Chlorotoluene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,1-Dichloroethane, 1,2-Dichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 1,2-Dichloropropane, 1,3-Dichloropropane, 2,2-Dichloropropane).

NOTES
1) NA = Not Applicable
2) NS = Not Sampled
3) Sample ID ending with "EB" denotes a field equipment blank sample.
4) Sample ID ending with "D" denotes field duplicate sample.

QUALIFIERS
D = Diluted sampled. Dilution factors included in results.
J = The result is estimated.
U = Not detected.

**TABLE I-2
ALL RESULTS - GROUNDWATER SAMPLING**

Location	Sample ID	Sample Depth	Sample Date	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	3-Methylphenol & 4-Methylphenol	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	n-Nitrosodiphenylamine	n-Nitrosodi-n-propylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	
Groundwater Samples (mg/L)																											
GP-1	GP-1-34	34 ft	9/2/2009	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.01	< 0.01	< 0.021	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
	GP-1-42	42 ft	9/2/2009	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
GP-4	GP-4-34	34 ft	9/1/2009	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
	GP-4-34D	34 ft	9/1/2009	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005 J	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
GWP-01	GP-4-42	42 ft	9/1/2009	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
	GWP-1-50	50 ft	7/27/2009	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01		< 0.005	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
GWP-02	GWP-1-58	58 ft	7/27/2009	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01		< 0.005	< 0.01	< 0.01	< 0.021	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
	GWP-2-50	50 ft	7/28/2009	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01		< 0.005	< 0.01	< 0.01	< 0.021	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
GWP-03	GWP-2-58	58 ft	7/28/2009	< 0.011	< 0.011	< 0.006	< 0.011	< 0.006	< 0.011		< 0.006	< 0.011	< 0.011	< 0.023	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.006	< 0.011	< 0.006	< 0.011	< 0.011	< 0.011	< 0.011
	GWP-3-50	50 ft	7/28/2009	< 0.01	< 0.01	< 0.005	< 0.01	0.101 D	< 0.01		0.186 D	< 0.01	< 0.01	< 0.021	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
GWP-04	GWP-3-58	58 ft	7/28/2009	< 0.01	< 0.01	< 0.005	< 0.01	0.321 D	< 0.01		0.294 D	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.029	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
	GWP-4-50	50 ft	7/29/2009	< 0.01	< 0.01	< 0.005	< 0.01	0.028	< 0.01	< 0.01	0.061	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
GWP-05	GWP-4-58	58 ft	7/29/2009	< 0.01	< 0.01	< 0.005	< 0.01	0.003 J	< 0.01	< 0.01	0.004 J	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
	GWP-5-50	50 ft	7/30/2009	< 0.011	< 0.011	< 0.005	< 0.011	0.05	< 0.011	< 0.011	0.065	< 0.011	< 0.011	< 0.022	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	0.004 J	0.014	< 0.005	< 0.011	< 0.011	< 0.011	< 0.011
GWP-06	GWP-5-58	58 ft	7/30/2009	< 0.011	< 0.011	< 0.006	< 0.011	0.048	< 0.011	0.002 J	0.211 D	< 0.011	< 0.011	< 0.022	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	0.006	0.004 J	< 0.006	< 0.011	< 0.011	< 0.011	< 0.011
	GWP-6-50	50 ft	7/29/2009	< 0.01	< 0.01	< 0.005	< 0.01	0.038	0.012		0.182 D	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	0.007 J	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
GWP-07	GWP-6-50-D	50 ft	7/29/2009	< 0.01	< 0.01	< 0.005	< 0.01	0.043	0.013	0.021	0.194 D	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	0.007 J	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	GWP-6-58	58 ft	7/29/2009	< 0.01	< 0.01	< 0.005	< 0.01	0.015	0.011	0.018	0.081	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	0.012	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
GWP-08	GWP-7-50	50 ft	7/30/2009	< 0.011	< 0.011	< 0.005	< 0.011	0.04	0.018	0.042	0.225 D	< 0.011	< 0.011	< 0.021	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.005	0.022	< 0.005	< 0.011	< 0.011	< 0.011	< 0.011
	GWP-7-58	58 ft	7/30/2009	< 0.011 UJ	< 0.011 UJ	< 0.005 UJ	< 0.011 UJ	< 0.005 UJ	< 0.011 UJ	< 0.011 UJ	0.002 J J	< 0.011 UJ	< 0.011 UJ	< 0.022 UJ	< 0.011 UJ	< 0.011 UJ	< 0.011 UJ	< 0.011 UJ	< 0.011 UJ	< 0.011 UJ	< 0.005 UJ	< 0.011 UJ	< 0.005 UJ	< 0.011 UJ	< 0.011 UJ	< 0.011 UJ	< 0.011 UJ
GWP-09	GWP-8-50	50 ft	7/31/2009	< 0.011	< 0.011	< 0.005	< 0.011	0.055	< 0.011	0.003 J	0.209 D	< 0.011	< 0.011	< 0.021	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	0.003 J	0.013	< 0.005	< 0.011	< 0.011	< 0.011	< 0.011
	GWP-8-58	58 ft	7/31/2009	< 0.01	< 0.01	< 0.005	< 0.01	0.054	< 0.01	0.002 J	0.184 D	< 0.01	< 0.01	< 0.021	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.002 J	0.002 J	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
GWP-10	GWP-9-50EB	NA	7/31/2009	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	0.001 J	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	GWP-9-50	50 ft	8/3/2009	< 0.01	< 0.01	< 0.005	< 0.01	0.003 J	< 0.01	< 0.01	0.003 J	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.004 J	0.002 J	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
GWP-11	GWP-9-58	58 ft	8/3/2009	< 0.01	< 0.01	< 0.005	< 0.01	0.035	< 0.01	0.072	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.006	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
	GWP-10-50	50 ft	8/3/2009	< 0.01	< 0.01	< 0.005	< 0.01	0.025	< 0.01	< 0.01	0.075	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
GWP-12	GWP-10-58	58 ft	8/3/2009	< 0.01	< 0.01	< 0.005	< 0.01	0.027	< 0.01	0.002 J	0.146 D	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	GWP-11-50	50 ft	8/6/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GWP-13	GWP-11-58	58 ft	8/6/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	GWP-12-50	50 ft	8/4/2009	< 0.013	< 0.013	< 0.006	< 0.013	< 0.006	< 0.013	< 0.013	< 0.006	< 0.013	< 0.013	< 0.025	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.006	< 0.013	< 0.006	< 0.013	< 0.013	< 0.013	< 0.013
GWP-14	GWP-12-58	58 ft	8/4/2009	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.01	< 0.01	< 0.021	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
	GWP-13-50	50 ft	8/5/2009	< 0.011	< 0.011	< 0.006	< 0.011	< 0.006	< 0.011	< 0.011	< 0.006	< 0.011	< 0.011	< 0.023	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.006	< 0.011	< 0.006	< 0.011	< 0.011	< 0.011	< 0.011
GWP-15	GWP-13-58	58 ft	8/5/2009	< 0.011	< 0.011	< 0.005	< 0.011	0.052	< 0.011	< 0.011	0.236 D	< 0.011	< 0.011	< 0.021	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.005	< 0.011	< 0.005	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
	GWP-14-50	50 ft	8/5/2009	< 0.011	< 0.011	< 0.005	< 0.011																				

TABLE I-3
ALL RESULTS - SOIL VAPOR SAMPLING

Location	Sample ID	Sample Depth	Sample Date	Benzene (mg/m ³)	Ethylbenzene (mg/m ³)	Toluene (mg/m ³)	m,p-Xylene (mg/m ³)	o-Xylene (mg/m ³)	Acetone (mg/m ³)	Allyl chloride (mg/m ³)	Bromodichloromethane (mg/m ³)	Bromoform (mg/m ³)	Bromomethane (mg/m ³)	1,3-Butadiene (mg/m ³)	2-Butanone (mg/m ³)	Carbon disulfide (mg/m ³)	Carbon tetrachloride (mg/m ³)	Chlorobenzene (mg/m ³)	Chloroethane (mg/m ³)	Chloroform	Chloromethane (mg/m ³)	alpha-Chlorotoluene (mg/m ³)	Cyclohexane (mg/m ³)	Dibromochloromethane (mg/m ³)	1,2-Dichlorobenzene (mg/m ³)	1,3-Dichlorobenzene (mg/m ³)	1,4-Dichlorobenzene (mg/m ³)	Dichlorodifluoromethane (mg/m ³)	1,1-Dibromoethane (mg/m ³)	1,1-Dichloroethane (mg/m ³)	1,2-Dichloroethane (mg/m ³)	1,1-Dichloroethane (mg/m ³)	cis-1,2-Dichloroethane (mg/m ³)	trans-1,2-Dichloroethane (mg/m ³)	1,1-Dichloropropane (mg/m ³)	cis-1,3-Dichloropropane (mg/m ³)	trans-1,3-Dichloropropane (mg/m ³)	1,4-Dioxane (mg/m ³)	Ethanol (mg/m ³)	4-Ethyltoluene (mg/m ³)	Freon 113 (mg/m ³)	Freon 114 (mg/m ³)	Heptane (mg/m ³)	Hexachlorobutadiene (mg/m ³)	Hexane (mg/m ³)	2-Hexanone (mg/m ³)		
Soil Vapor Samples																																																
VMP-1	VMP-1-5	5 ft	11/2/2009	<0.38	<0.52	0.63	<0.52	<0.52	<1.1	<1.5	<0.8	<1.2	<0.46	<0.26	<0.35	<0.37	<0.75	<0.55	<0.31	<0.58	<0.98	<0.62	18	<1	<0.72	<0.72	<0.72	<0.59	<0.91	<0.48	<0.48	<0.47	<0.47	<0.55	<0.54	<0.54	<1.7	<0.9	<0.58	<0.91	<0.83	3.8	<5.1	53	<1.9			
	VMP-1-8.5	8.5 ft	11/2/2009	<0.52	<0.71	<0.62	<0.71	<0.71	<1.6	<2	<1.1	<1.7	<0.63	<0.36	<0.48	<0.51	<1	<0.75	<0.43	<0.8	<1.4	<0.85	14	<1.4	<0.98	<0.98	<0.81	<1.2	<0.66	<0.66	<0.65	<0.65	<0.74	<0.74	<0.74	<2.4	<1.2	<0.98	<1.2	<1.1	1.7	<7	16	<2.7				
	VMP-1-23.5	23.5 ft	11/2/2009	<1.3	<1.5	<1.7	<1.7	<1.7	<3.8	<5	<2.6	<4.1	<1.5	<0.88	<1.2	<1.2	<2.5	<1.8	<1	<1.9	<3.3	<2	66	<3.4	<2.4	<2.4	<2.4	<2	<3	<1.6	<1.6	<1.6	<1.6	<1.8	<1.8	<1.8	<5.7	<3	<1.9	<3	<2.8	24	<17	140	<6.5			
VMP-2	VMP-1-38.5	38.5 ft	11/2/2009	3.8	<4.9	<4.2	<4.9	<4.9	<11	<14	<7.5	<12	<4.3	420	<3.3	<3.5	<7	<5.2	<3	<5.5	<9.2	<5.8	380	<9.5	<6.7	<6.7	<6.7	<5.5	<8.6	<4.5	<4.5	<4.4	<4.4	<4.4	<5.2	<5.1	<5.1	<16	<8.4	<5.5	<8.6	<7.8	130	<48	1000	<18		
	VMP-2-22	22 ft	11/3/2009	<0.89	<1.2	<1	<1.2	<1.2	<2.7	<3.5	<1.9	<2.9	<1.1	<0.62	<0.82	<0.87	<1.8	<1.3	<0.74	<1.4	<2.3	<1.4	11	<2.4	<1.7	<1.7	<1.7	<1.4	<2.2	<1.1	<1.1	<1.1	<1.3	<1.3	<1.3	<4	<2.1	<1.4	<2.1	<2	1.6	<12	13	<4.6				
	VMP-2-42	42 ft	11/3/2009	84	130	59	160	58	<52	<69	<37	<57	<21	<12	<16	<17	<35	<25	<14	<27	<45	<28	920	<47	<33	<33	<33	<27	<42	<22	<22	<22	<25	<25	<25	<79	<41	UJ	<42	<38	1800	<230	7000	<90				
VMP-3	VMP-2-5	5 ft	11/2/2009	<0.46	<0.63	<0.55	<0.63	<0.63	<1.4	<1.8	<0.97	<1.5	<0.56	<0.32	<0.43	<0.45	<0.92	<0.67	<0.38	<0.71	<1.2	<0.75	8	<1.2	<0.87	<0.87	<0.87	<0.72	<1.1	<0.59	<0.59	<0.58	<0.58	<0.67	<0.66	<0.66	<2.1	<1.1	<0.72	<1.1	<1	1.3	<6.2	13	<2.4			
	VMP-2-8.5	8.5 ft	11/3/2009	<0.16	<0.22	<0.19	<0.22	<0.22	<0.48	<0.64	<0.34	<0.53	<0.32	<0.31	<0.23	<0.13	<0.25	<0.42	<0.43	<0.31	<0.31	<0.25	<0.39	<0.21	<0.39	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21		
	VMP-2-8.5-D	8.5 ft	11/3/2009	<0.17	<0.23	<0.2	<0.23	<0.23	<0.51	<0.68	<0.36	<0.56	<0.21	<0.12	<0.16	<0.17	<0.34	<0.25	<0.14	<0.26	<0.45	<0.28	0.29	<0.46	<0.32	<0.32	<0.32	<0.27	<0.41	<0.22	<0.22	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21		
VMP-4	VMP-3-22	22 ft	11/4/2009	52	<17	<15	22	<17	<37	<49	<26	<40	<15	<8.6	<11	<12	<24	<18	<10	<19	<32	<20	980	<33	<23	<23	<23	<19	<30	<16	<16	<15	<15	<18	<18	<18	<56	<29	UJ	<19	<30	<27	310	<160	4900	<64		
	VMP-3-31.5	31.5 ft	11/4/2009	240	78	25	130	<27	<59	<78	<42	<64	<24	<14	<18	<19	<39	<28	<16	<30	<51	<32	920	<53	<37	<37	<31	<48	<25	<25	<24	<24	<24	<29	<28	<28	<89	<47	<30	<48	<43	870	<260	18000 EJ	<100			
	VMP-3-39	39 ft	11/4/2009	240	70	<46	110	<54	<120	<150	<83	<130	<48	<27	<36	<38	<78	<57	<32	<60	<100	<64	790	<100	<74	<74	<74	<61	<95	<50	<50	<49	<49	<49	<57	<56	<56	<180	<93	<61	<95	<86	780	<530	18000	<200		
VMP-5	VMP-3-5	5 ft	11/3/2009	<0.017	0.065	<0.02	0.1	0.045	<0.051	<0.068	<0.036	<0.056	<0.021	<0.012	<0.016	<0.017	<0.034	<0.025	<0.014	<0.026	<0.045	<0.028	0.23	<0.046	<0.032	<0.032	<0.032	<0.021	<0.022	<0.022	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	
	VMP-4-12	12 ft	11/5/2009	3.2	<0.92	<0.8	1.5	<0.92	<2	<2.6	<1.4	<2.2	<0.82	<0.47	<0.62	<0.66	<1.3	<0.97	<0.56	<1	<1.7	<1.1	170	<1.8	<1.3	<1.3	<1.3	<1	<1.6	<0.85	<0.85	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84
	VMP-4-23.5	23.5 ft	11/5/2009	540	720	1400	1300	410	<92	<120	<65	<100	<38	<21	<29	<30	<61	<45	<26	<47	<80	<50	2500	<83	<58	<58	<58	<48	<74	<39	<39	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	<38	
VMP-6	VMP-4-39	39 ft	11/5/2009	660	620	420	1100	320	<71	<93	<50	<77	<29	<16	<22	<23	<47	<34	<20	<36	<62	<38	2400	<63	<45	<45	<45	<37	<57	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	
	VMP-4-5	5 ft	11/5/2009	<0.04	<0.055	<0.048	<0.055	<0.055	<0.12	<0.16	<0.085	<0.13	<0.049	<0.028	<0.037	<0.039	<0.08	<0.058	<0.033	<0.062	<0.1	<0.065	5.7	<0.11	<0.076	<0.076	<0.076	<0.062	<0.097	<0.051	<0.051	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	VMP-5-12.5	12.5 ft	11/6/2009	5.8	<1.1	<0.97	<1.1	<1.1	<2.4	<3.2	<1.7	<2.7	<1	<0.57	<0.76	<0.8	<1.6	<1.2	<0.68	<1.2	<2.1	<1.3	240	<4.2	<1.6	<1.6	<1.6	<1.3	<2	<1	<1	<1	<1	<1.2	<1.2	<1.2	<3.7	<1.9	<1.3	<2	<1.8	46	<11	650	<4.2			
VMP-7	VMP-5-12.5-D	12.5 ft	11/6/2009	6	<2.5	<2.2	<2.5	<2.5	<5.5	<7.3	<3.9	<6	<2.2	<1.3	<1.7	<1.8	<3.6	<2.7	<1.5	<2.8	<4.8	<3	240	<4.9	<3.5	<3.5	<3.5	<2.9	<4.4	<2.3	<2.3	<2.3	<2.7	<2.6	<2.6	<8.4	<4.4	<4	47	<25	640	<9.5						
	VMP-5-31	31 ft	11/6/2009	160	<10	<9	<10	<10	<23	<30	<16	<25	<9.2	<5.3	<7	<7.4	<15	<11	<6.3	<12	<20	<12	1600	<20	<14	<14	<12	<18	<9.6	<9.6	<9.4	<9.4	<11	<11	<11	<34	<18	<12	<18	<17	910	<100	4900	<39				
	VMP-5-40	40 ft	11/6/2009	170	<14	<12	<14	<14	<31	<41	<22	<34	<13	<7.2	<9.7	<10	<21	<15	<8.6	<16	<27	<17	1400	<28	<20	<20	<20	<16	<25	<13	<13	<13	<15	<15	<15	<47	<25	<23	810	<140	4400	<54						
VMP-8	VMP-5-5	5 ft	11/5/2009	1.5	<0.97	<0.84	<0.97	<0.97	<2.1	<2.8	<1.5	<2.3	<0.87	<0.5	<0.66	<0.7	<1.4	<1	<0.59	<1.1	<1.8	<1.2	78	<1.9	<1.3	<1.3	<1.3	<1.1	<1.7	<0.91	<0.91	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89		
	VMP-6-10	10 ft	11/6/2009	6.4	5.2	<1.6	3.4	<1.9	<4.1	<																																						

TABLE I-3
ALL RESULTS - SOIL VAPOR SAMPLING

Location	Sample ID	Sample Depth	Sample Date	Isopropylbenzene (mg/m3)	Methylene chloride (mg/m3)	4-Methyl-2-pentanone (mg/m3)	Methyl tert-Butyl Ether (mg/m3)	2-Propanol (mg/m3)	n-Propylbenzene (mg/m3)	Styrene (mg/m3)	1,1,2,2-Tetrachloroethane (mg/m3)	Tetrachloroethene (mg/m3)	Tetrahydrofuran (mg/m3)	1,2,4-Trichlorobenzene (mg/m3)	1,1,1-Trichloroethane (mg/m3)	1,1,2-Trichloroethane (mg/m3)	Trichloroethene(mg/m3)	Trichlorofluoromethane (mg/m3)	1,2,4-Trimethylbenzene (mg/m3)	1,3,5-Trimethylbenzene (mg/m3)	2,2,4-Trimethylpentane (mg/m3)	Vinyl chloride (mg/m3)	Carbon Dioxide (ppbV)	Carbon Monoxide (ppbV)	Ethane (ppbV)	Ethene (ppbV)	Helium (ppbV)	Methane (ppbV)	Nitrogen (ppbV)	Oxygen (ppbV)						
Soil Vapor Samples																																				
VMP-1	VMP-1-1.5	5 ft	11/2/2009	< 0.58	< 0.41	< 0.49	< 0.43	< 1.2	< 0.58	< 0.51	< 0.82	< 0.81	< 0.35	< 3.5	< 0.65	< 0.58	< 0.64	< 0.67	< 0.58	< 0.3	220	< 0.65	4.5	< 0.024	< 0.0024	< 0.0024	1.6	1.4	81	11						
	VMP-1-8.5	8.5 ft	11/2/2009	< 0.8	< 0.57	< 0.67	< 0.59	< 1.6	< 0.8	< 0.7	< 1.1	< 1.1	< 0.48	< 4.8	< 0.89	< 0.8	< 0.88	< 0.92	< 0.8	< 0.42	370	< 0.89	12	< 0.023	< 0.0023	< 0.0023	< 0.11	1.5	85	1.5						
	VMP-1-23.5	23.5 ft	11/2/2009	< 1.9	< 1.4	< 1.6	< 1.4	< 3.9	< 1.9	< 1.7	< 2.7	< 2.7	< 1.2	< 12	< 2.2	< 1.9	< 2.1	< 2.2	< 1.9	< 1	920	< 2.2	9.8	< 0.024	0.0038	< 0.0024	< 0.12	7.4	80	1.3						
	VMP-1-38.5	38.5 ft	11/2/2009	< 5.5	< 3.9	< 4.6	< 4	< 11	< 5.5	< 4.8	< 7.7	< 7.6	< 3.3	< 33	< 6.1	< 5.5	< 6	< 6.3	< 5.5	< 2.9	2400	< 6.1	5.6	< 0.022	0.017	< 0.0022	0.23	33	54	1.4						
VMP-2	VMP-2-22	22 ft	11/3/2009	< 1.4	< 0.97	< 1.1	< 1	< 2.8	< 1.4	< 1.2	< 1.9	< 1.9	< 0.82	< 8.3	< 1.5	< 1.4	< 1.5	< 1.6	< 1.4	< 0.72	600	< 1.5	10	< 0.022	< 0.0022	< 0.0022	< 0.11	0.54	85	4						
	VMP-2-42	42 ft	11/3/2009	< 27	< 19	< 22	< 20	< 54	< 27	< 23	< 38	< 37	< 16	< 160	< 30	< 27	< 30	< 31	< 27	< 14	1700	< 30	5	< 0.022	0.02	< 0.0022	< 0.11	64	16	0.92						
	VMP-2-5	5 ft	11/2/2009	< 0.72	< 0.5	< 0.6	< 0.52	< 1.4	< 0.72	< 0.62	< 1	< 0.99	< 0.43	< 4.3	< 0.79	< 0.72	< 0.78	< 0.82	< 0.72	< 0.37	270	< 0.79	7.8	< 0.023	< 0.0023	< 0.0023	2.4	0.0078	79	11						
	VMP-2-8.5	8.5 ft	11/3/2009	< 0.25	< 0.18 UJ	< 0.21	< 0.18	< 0.5	< 0.25	< 0.22	< 0.35	< 0.34	< 0.15	< 1.5	< 0.28	< 0.25	< 0.27	< 0.29	< 0.25	< 0.13	74	< 0.28	2.5	< 0.02	< 0.002	< 0.002	1.2	< 0.0002	78	18						
VMP-3	VMP-2-8.5-D	8.5 ft	11/3/2009	< 0.26	< 0.19 UJ	< 0.22	< 0.19	< 0.53	< 0.26	< 0.23	< 0.37	< 0.37	< 0.16	< 1.6	< 0.29	< 0.26	< 0.29	< 0.3	< 0.26	< 0.14	82	< 0.29	2.7	< 0.022	< 0.0022	< 0.0022	1.3	< 0.00022	78	18						
	VMP-3-22	22 ft	11/4/2009	< 19	< 13	< 16	< 14	< 38	24	< 16	< 27	< 26	< 11	< 120	< 21	< 19	< 21	< 22	< 19	< 9.9	3800	< 21	8.7	< 0.023	0.012	< 0.0023	< 0.12	25	58	1.1						
	VMP-3-31.5	31.5 ft	11/4/2009	< 30	< 22	< 25	< 22	< 61	< 30	< 26	< 42	< 42	< 18	< 180	< 34	< 30	< 33	< 35	< 30	< 16	6800	< 34	5.6	< 0.025	0.02	< 0.0025	< 0.12	43	36	0.77						
	VMP-3-39	39 ft	11/4/2009	< 61	< 43	< 50	< 44	< 120	< 61	< 53	< 85	< 84	< 36	< 370	< 67	< 61	< 66	< 69	< 61	< 32	7100	< 67	5.6	< 0.025	0.021	< 0.0025	< 0.12	45	33	0.79						
VMP-4	VMP-3-5	5 ft	11/3/2009	< 0.026	< 0.019 UJ	< 0.022	< 0.019	< 0.053	< 0.026	< 0.023	< 0.037	< 0.037	< 0.016	< 0.16	< 0.029	< 0.026	< 0.029	< 0.03	< 0.026	< 0.014	6.4	< 0.029	8.5	< 0.027	< 0.0027	< 0.0027	0.18	0.037	86	5						
	VMP-4-12	12 ft	11/5/2009	< 1	< 0.73	< 0.86	< 0.76	< 2.1	< 1	< 0.9	< 1.4	< 1.4	< 0.62	< 6.3 UJ	< 1.2	< 1	< 1.1	< 1.2	< 1	< 0.54	300	< 1.2	9.6	< 0.025	< 0.0025	< 0.0025	0.26	2.2	84	3.8						
	VMP-4-23.5	23.5 ft	11/5/2009	< 48	< 34	< 40	< 35	< 95	< 48	< 41	< 66	< 66	< 29	< 290	< 53	78	< 52	< 54	< 48	< 25	4700	< 53	6.7	< 0.023	0.021	< 0.0023	< 0.12	46	32	0.75						
	VMP-4-39	39 ft	11/5/2009	< 37	< 26	< 30	< 27	< 73	39	< 32	< 51	< 50	< 22	< 220	< 41	83	< 40	< 42	< 37	< 19	4500	< 41	6.6	< 0.024	0.02	< 0.0024	< 0.12	44	34	1.1						
VMP-5	VMP-4-5	5 ft	11/5/2009	< 0.062	< 0.044	< 0.052	< 0.046	< 0.12	< 0.062	< 0.054	< 0.087	< 0.086	< 0.037	< 0.38 UJ	< 0.069	< 0.062	< 0.068	< 0.071	< 0.062	< 0.032	20	< 0.069	0.69	< 0.025	< 0.0025	< 0.0025	34	0.029	51	14						
	VMP-5-12.5	12.5 ft	11/6/2009	< 1.3	< 0.9	< 1	< 0.93	< 2.5	< 1.3	< 1.1	< 1.8	< 1.8	< 0.76	< 7.6	< 1.4	< 1.3	< 1.4	< 1.4	< 1.3	< 0.66	960	< 1.4	13	< 0.026	0.004	< 0.0026	< 0.13	6.3	78	1.3						
	VMP-5-12.5-D	12.5 ft	11/6/2009	< 2.8	< 2	< 2.4	< 2.1	< 5.7	< 2.8	< 2.5	< 4	< 3.9	< 1.7	< 17	< 3.2	< 3.2	< 3.1	< 3.2	< 2.8	< 1.5	1000	< 3.2	13	< 0.023	0.004	< 0.0023	< 0.12	6.3	77	1.6						
	VMP-5-31	31 ft	11/6/2009	< 12	< 8.3	< 9.7	< 8.6	< 23	< 12	< 10	< 16	< 16	< 7	< 71	< 13	< 12	< 13	< 13	< 12	< 6.1	4000	< 13	10	< 0.024	0.014	< 0.0024	< 0.12	24	58	1						
VMP-6	VMP-5-40	40 ft	11/6/2009	< 16	< 11	< 13	< 12	< 32	< 16	< 14	< 22	< 22	< 9.7	< 9.7	< 18	< 16	< 18	< 18	< 12	< 8.4	3400	< 18	9.2	< 0.033	0.012	< 0.0033	< 0.16	22	60	2.7						
	VMP-5-5	5 ft	11/5/2009	< 1.1	< 0.78	< 0.92	< 0.81	< 2.2	< 1.1	< 0.95	< 1.5	< 1.5	< 0.66	< 6.6 UJ	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 0.57	370	< 1.2	14	< 0.022	< 0.0022	< 0.0022	< 0.11	2.8	81	1.3						
	VMP-6-10	10 ft	11/6/2009	3.6	< 1.5	< 1.8	< 1.6	< 4.2	8	< 1.8	< 3	< 2.9	< 1.3	< 13	< 2.3	< 2.1	< 2.3	< 2.4	< 2.1	< 1.1	1800	< 2.3	14	< 0.026	< 0.0026	< 0.0026	< 0.13	4.2	78	2.7						
	VMP-6-31.5	31.5 ft	11/9/2009	18	< 9.7 UJ	< 11	< 10	< 28	44	< 12	< 19	< 19	< 8.2	< 83	< 15	29	< 15	< 16	< 14	< 1.1	2500	< 15	14	< 0.022	0.003	< 0.0022	< 0.11	7.7	75	1.4						
VMP-7	VMP-6-39	39 ft	11/9/2009	24	< 11 UJ	< 13	< 11	< 31	60	< 14	< 22	< 22	< 9.4	< 9.4	< 17	79	< 17	< 18	< 29	< 8.1	2800	< 17	15	< 0.023	0.0033	< 0.0023	< 0.11	8.3	73	1.3						
	VMP-6-5	5 ft	11/6/2009	2.7 J	< 1.4	< 1.6	< 1.4	< 3.9	5.8 J	< 1.7	< 2.7	< 2.7	< 1.2	< 12	< 2.2	< 1.9	< 2.1	< 2.2	< 1.9	< 1	1400 J	< 2.2	13	< 0.024	< 0.0024	< 0.0024	< 0.12	3.7	79	3.3						
	VMP-7-13.5	13.5 ft	11/9/2009	< 0.044	< 0.031	< 0.037	< 0.032	< 0.088	< 0.044	< 0.038	< 0.061	< 0.061	< 0.026	< 0.26	< 0.049	< 0.044	< 0.048	< 0.05	< 0.044	< 0.023	22 E J	< 0.049	16	< 0.022	< 0.0022	< 0.0022	< 0.11	0.1	82	2.1						
	VMP-7-29.5	29.5 ft	11/9/2009	7.5 J	< 0.66	< 0.78	< 0.69	< 1.9	6.5 J	< 0.81	< 1.3	< 1.3	< 0.56	< 5.7 UJ	< 1	< 0.94	< 1	< 1.1	< 0.94	< 0.49	1200 E J	< 1	17	< 0.023	< 0.0023	< 0.0023	< 0.11	4.4	77	1.3						
VMP-8	VMP-7-38	38 ft	11/9/2009	4 J	< 0.23	< 0.27	< 0.24	< 0.65	3.5 J	< 0.28	< 0.45	< 0.19	< 2 UJ	< 0.36	< 0.32	< 0.35	< 0.37	< 0.32	< 0.37	< 0.32	410 E J	< 0.36	3.2	< 0.024	< 0.0024	< 0.0024	< 0.12	0.95	79	1.7						
	VMP-7-5	5 ft	11/9/2009	< 0.005	< 0.004	< 0.004	< 0.004	0.55	< 0.005	< 0.005	< 0.008	< 0.007	< 0.003	< 0.034	< 0.006	< 0.005	< 0.006	< 0.006	< 0.005	< 0.003	0.21	< 0.006	1.7	< 0.023	< 0.0023	< 0.0023	2.7	< 0.00023	78	18						
	VMP-8-23.5	23.5 ft	11/10/2009	< 0.005	< 0.004	< 0.004	< 0.004	< 0.012	< 0.005	< 0.005	< 0.008	< 0.008	< 0.003	< 0.035	< 0.006	< 0.005	< 0.006	< 0.006	< 0.005	< 0.003	< 0.005	< 0.006	10	< 0.024	< 0.0024	< 0.0024	< 0.12	< 0.00024	79	11						
	VMP-8-5	5 ft	11/10/2009	< 0.005	< 0.004	< 0.004	< 0.004	< 0.011	< 0.005	< 0.005	< 0.008	< 0.007	< 0.003	< 0.034	< 0.006	< 0.005	< 0.006	< 0.006	< 0.005	< 0.003	0.031	< 0.006	5.1	< 0.023	< 0.0023	< 0.0023	< 0.12	< 0.00023	79	16						
VMP-9	VMP-8-9.5	9.5 ft	11/10/2009	< 0.005	< 0.003	< 0.004	< 0.004	< 0.0																												

Data Reviews & Laboratory Reports

Roxana Data Review

Laboratory SDG: 339015

Reviewer: Tony Sedlacek

Date Reviewed: 1/7/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-1-50	GWP-1-58

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative and cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 339015

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

29-JUL-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

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Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

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29-JUL-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **339015**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 339015. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 339015 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Sample Cross Reference 339015



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-1-50	W	Jul-27-09 11:50		339015-001
GWP-1-58	W	Jul-27-09 15:00		339015-002

CASE NARRATIVE



Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 339015

Report Date: 29-JUL-09
Date Received: 07/28/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-766939 SVOCs by SW-846 8270C

None



Certificate of Analysis Summary 339015

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Tue Jul-28-09 09:30 am

Report Date: 29-JUL-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339015-001	339015-002
	Field Id:	GWP-1-50	GWP-1-58
Depth:			
Matrix:	WATER	WATER	
Sampled:	Jul-27-09 11:50	Jul-27-09 15:00	
Extracted:	Jul-28-09 10:54	Jul-28-09 10:57	
Analyzed:	Jul-29-09 12:03	Jul-29-09 12:43	
Units/RL:	mg/L RL	mg/L RL	
Acenaphthene	U 0.005	U 0.005	
Acenaphthylene	U 0.005	U 0.005	
Aniline (Phenylamine, Aminobenzene)	U 0.020	U 0.021	
Anthracene	U 0.005	U 0.005	
Benzo(a)anthracene	U 0.005	U 0.005	
Benzo(a)pyrene	U 0.005	U 0.005	
Benzo(b)fluoranthene	U 0.005	U 0.005	
Benzo(k)fluoranthene	U 0.005	U 0.005	
Benzo(g,h,i)perylene	U 0.005	U 0.005	
Benzoic Acid	U 0.030	U 0.031	
Benzyl Butyl Phthalate	U 0.005	U 0.005	
bis(2-chloroethoxy) methane	U 0.010	U 0.010	
bis(2-chloroethyl) ether	U 0.010	U 0.010	
bis(2-chloroisopropyl) ether	U 0.010	U 0.010	
bis(2-ethylhexyl) phthalate	U 0.005	U 0.005	
4-Bromophenyl-phenylether	U 0.010	U 0.010	
4-chloro-3-methylphenol	U 0.010	U 0.010	
4-Chloroaniline	U 0.020	U 0.021	
2-Chloronaphthalene	U 0.010	U 0.010	
2-Chlorophenol	U 0.010	U 0.010	
4-Chlorophenyl Phenyl Ether	U 0.010	U 0.010	
Chrysene	U 0.005	U 0.005	
Dibenz(a,h)anthracene	U 0.005	U 0.005	
Dibenzofuran	U 0.010	U 0.010	
di-n-Butyl Phthalate	U 0.005	U 0.005	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Managing Director, Texas



Certificate of Analysis Summary 339015

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Tue Jul-28-09 09:30 am
Report Date: 29-JUL-09
Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339015-001	339015-002
	Field Id:	GWP-1-50	GWP-1-58
Depth:			
Matrix:	WATER	WATER	
Sampled:	Jul-27-09 11:50	Jul-27-09 15:00	
Extracted:	Jul-28-09 10:54	Jul-28-09 10:57	
Analyzed:	Jul-29-09 12:03	Jul-29-09 12:43	
Units/RL:	mg/L RL	mg/L RL	
3,3-Dichlorobenzidine	U 0.010	U 0.010	
2,4-Dichlorophenol	U 0.010	U 0.010	
Diethyl Phthalate	U 0.005	U 0.005	
Dimethyl Phthalate	U 0.005	U 0.005	
2,4-Dimethylphenol	U 0.010	U 0.010	
4,6-dinitro-2-methyl phenol	U 0.010	U 0.010	
2,4-Dinitrophenol	U 0.010	U 0.010	
2,4-Dinitrotoluene	U 0.010	U 0.010	
2,6-Dinitrotoluene	U 0.010	U 0.010	
di-n-Octyl Phthalate	U 0.005	U 0.005	
Fluoranthene	U 0.005	U 0.005	
Fluorene	U 0.005	U 0.005	
Hexachlorobenzene	U 0.010	U 0.010	
Hexachlorocyclopentadiene	U 0.010	U 0.010	
Hexachloroethane	U 0.010	U 0.010	
Indeno(1,2,3-c,d)Pyrene	U 0.005	U 0.005	
Isophorone	U 0.010	U 0.010	
2-Methylnaphthalene	U 0.005	U 0.005	
2-methylphenol	U 0.010	U 0.010	
Naphthalene	U 0.005	U 0.005	
2-Nitroaniline	U 0.010	U 0.010	
3-Nitroaniline	U 0.010	U 0.010	
4-Nitroaniline	U 0.020	U 0.021	
Nitrobenzene	U 0.010	U 0.010	
2-Nitrophenol	U 0.010	U 0.010	

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Certificate of Analysis Summary 339015

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Tue Jul-28-09 09:30 am

Report Date: 29-JUL-09

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>
SVOAs by SW-846 8270C	339015-001	GWP-1-50		WATER	Jul-27-09 11:50	Jul-28-09 10:54	Jul-29-09 12:03	mg/L RL
	339015-002	GWP-1-58		WATER	Jul-27-09 15:00	Jul-28-09 10:57	Jul-29-09 12:43	mg/L RL
4-Nitrophenol	U	0.010						U 0.010
N-Nitrosodi-n-Propylamine	U	0.010						U 0.010
N-Nitrosodiphenylamine	U	0.010						U 0.010
Pentachlorophenol	U	0.010						U 0.010
Phenanthrene	U	0.005						U 0.005
Phenol	U	0.010						U 0.010
Pyrene	U	0.005						U 0.005
Pyridine	U	0.010						U 0.010
2,4,5-Trichloropheno	U	0.010						U 0.010
2,4,6-Trichloropheno	U	0.010						U 0.010

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Carlos Castro
Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : Gc/Ms For Semivolatile Organics (Capill

Client : URS Corporation-St. Louis

Work Order #: 339015

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-1-58	Jul. 27, 2009	Jul. 28, 2009	Jul. 28, 2009	7	1	Jul.29, 2009	40	1	P
GWP-1-50	Jul. 27, 2009	Jul. 28, 2009	Jul. 28, 2009	7	1	Jul.29, 2009	40	1	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339015,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 766939

Sample: 534414-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/29/09 10:11

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.052	0.050	104	43-116	
2-Fluorophenol	0.035	0.050	70	21-100	
Nitrobenzene-d5	0.045	0.050	90	35-114	
Phenol-d6	0.023	0.050	46	10-94	
Terphenyl-D14	0.053	0.050	106	33-141	
2,4,6-Tribromophenol	0.035	0.050	70	10-123	

Lab Batch #: 766939

Sample: 534414-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/29/09 10:48

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.051	0.050	102	43-116	
2-Fluorophenol	0.034	0.050	68	21-100	
Nitrobenzene-d5	0.046	0.050	92	35-114	
Phenol-d6	0.026	0.050	52	10-94	
Terphenyl-D14	0.053	0.050	106	33-141	
2,4,6-Tribromophenol	0.042	0.050	84	10-123	

Lab Batch #: 766939

Sample: 534414-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/29/09 11:25

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.047	0.050	94	43-116	
2-Fluorophenol	0.033	0.050	66	21-100	
Nitrobenzene-d5	0.044	0.050	88	35-114	
Phenol-d6	0.024	0.050	48	10-94	
Terphenyl-D14	0.049	0.050	98	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339015,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 766939

Sample: 339015-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/29/09 12:03

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.047	0.051	92	43-116	
2-Fluorophenol	0.024	0.051	47	21-100	
Nitrobenzene-d5	0.041	0.051	80	35-114	
Phenol-d6	0.015	0.051	29	10-94	
Terphenyl-D14	0.046	0.051	90	33-141	
2,4,6-Tribromophenol	0.035	0.051	69	10-123	

Lab Batch #: 766939

Sample: 339015-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/29/09 12:43

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.048	0.052	92	43-116	
2-Fluorophenol	0.025	0.052	48	21-100	
Nitrobenzene-d5	0.041	0.052	79	35-114	
Phenol-d6	0.016	0.052	31	10-94	
Terphenyl-D14	0.046	0.052	88	33-141	
2,4,6-Tribromophenol	0.036	0.052	69	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Project Name: 900 S. Central Avenue

Work Order #: 339015

Analyst: KAN

Lab Batch ID: 766939

Sample: 534414-1-BKS

Date Prepared: 07/28/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 07/29/2009

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
SVOAs by SW-846 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acenaphthene	<0.001	0.050	0.047	94	0.05	0.045	90	4	27-132	31	
Acenaphthylene	<0.001	0.050	0.048	96	0.05	0.045	90	6	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.001	0.050	0.049	98	0.05	0.046	92	6	5-115	25	
Anthracene	<0.001	0.050	0.048	96	0.05	0.045	90	6	47-145	25	
Benzo(a)anthracene	<0.001	0.050	0.050	100	0.05	0.047	94	6	33-143	25	
Benzo(a)pyrene	<0.001	0.050	0.051	102	0.05	0.047	94	8	65-135	25	
Benzo(b)fluoranthene	<0.001	0.050	0.049	98	0.05	0.046	92	6	24-159	25	
Benzo(k)fluoranthene	<0.001	0.050	0.051	102	0.05	0.048	96	6	25-125	25	
Benzo(g,h,i)perylene	<0.001	0.050	0.042	84	0.05	0.037	74	13	65-135	25	
Benzoic Acid	<0.009	0.150	0.099	66	0.15	0.097	65	2	30-115	40	
Benzyl Butyl Phthalate	<0.001	0.050	0.053	106	0.05	0.049	98	8	65-135	25	
bis(2-chloroethoxy) methane	<0.001	0.050	0.041	82	0.05	0.039	78	5	54-188	25	
bis(2-chloroethyl) ether	<0.001	0.050	0.040	80	0.05	0.038	76	5	65-135	25	
bis(2-chloroisopropyl) ether	<0.001	0.050	0.036	72	0.05	0.033	66	9	65-135	25	
bis(2-ethylhexyl) phthalate	<0.001	0.050	0.044	88	0.05	0.041	82	7	8-158	25	
4-Bromophenyl-phenyl/ether	<0.001	0.050	0.048	96	0.05	0.044	88	9	65-135	25	
4-chloro-3-methylphenol	<0.001	0.050	0.049	98	0.05	0.046	92	6	16-129	33	
4-Chloroaniline	<0.001	0.050	0.060	120	0.05	0.058	116	3	9-128	25	
2-Chloronaphthalene	<0.001	0.050	0.048	96	0.05	0.044	88	9	65-135	25	
2-Chlorophenol	<0.001	0.050	0.043	86	0.05	0.040	80	7	16-116	40	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)]

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 339015

Analyst: KAN

Lab Batch ID: 766939

Sample: 534414-1-BKS

Date Prepared: 07/28/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 07/29/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
	4-Chlorophenyl Phenyl Ether	<0.001	0.050	0.046	92	0.05	0.043	86	7	65-135	25	
	Chrysene	<0.001	0.050	0.049	98	0.05	0.046	92	6	65-135	25	
	Dibenz(a,h)anthracene	<0.001	0.050	0.045	90	0.05	0.040	80	12	50-125	25	
	Dibenzofuran	<0.001	0.050	0.048	96	0.05	0.045	90	6	52-125	25	
	di-n-Butyl Phthalate	<0.003	0.050	0.046	92	0.05	0.043	86	7	49-135	50	
	3,3-Dichlorobenzidine	<0.002	0.050	0.072	144	0.05	0.066	132	9	12-147	25	
	2,4-Dichlorophenol	<0.001	0.050	0.050	100	0.05	0.048	96	4	65-135	25	
	Diethyl Phthalate	<0.001	0.050	0.045	90	0.05	0.042	84	7	37-125	50	
	Dimethyl Phthalate	<0.001	0.050	0.046	92	0.05	0.043	86	7	25-175	50	
	2,4-Dimethylphenol	<0.001	0.050	0.052	104	0.05	0.048	96	8	32-119	25	
	4,6-dinitro-2-methyl phenol	<0.001	0.050	0.047	94	0.05	0.044	88	7	2-181	25	
	2,4-Dinitrophenol	<0.001	0.050	0.033	66	0.05	0.039	78	17	65-135	25	
	2,4-Dinitrotoluene	<0.001	0.050	0.047	94	0.05	0.043	86	9	22-135	38	
	2,6-Dinitrotoluene	<0.001	0.050	0.045	90	0.05	0.042	84	7	49-122	38	
	di-n-Octyl Phthalate	<0.001	0.050	0.047	94	0.05	0.044	88	7	43-134	50	
	Fluoranthene	<0.001	0.050	0.048	96	0.05	0.044	88	9	47-125	25	
	Fluorene	<0.001	0.050	0.047	94	0.05	0.044	88	7	48-139	25	
	Hexachlorobenzene	<0.001	0.050	0.049	98	0.05	0.045	90	9	46-133	25	
	Hexachlorocyclopentadiene	<0.001	0.050	0.044	88	0.05	0.042	84	5	41-125	25	
	Hexachloroethane	<0.001	0.050	0.041	82	0.05	0.039	78	5	25-153	25	

Relative Percent Difference RPD = 200*(C-F)/(C+F)

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 339015

Analyst: KAN

Lab Batch ID: 766939

Sample: 534414-1-BKS

Date Prepared: 07/28/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 07/29/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Indeno(1,2,3-c,d)Pyrene		<0.001	0.050	0.047	94	0.05	0.042	84	11	27-160	25	
Isophorone		<0.001	0.050	0.053	106	0.05	0.051	102	4	26-175	25	
2-Methylnaphthalene		<0.001	0.050	0.051	102	0.05	0.049	98	4	25-175	25	
2-methylphenol		<0.001	0.050	0.041	82	0.05	0.039	78	5	14-176	25	
Naphthalene		<0.001	0.050	0.045	90	0.05	0.043	86	5	26-175	25	
2-Nitroaniline		<0.001	0.050	0.045	90	0.05	0.042	84	7	65-135	25	
3-Nitroaniline		<0.002	0.050	0.055	110	0.05	0.052	104	6	65-135	25	
4-Nitroaniline		<0.001	0.050	0.065	130	0.05	0.059	118	10	65-135	25	
Nitrobenzene		<0.001	0.050	0.044	88	0.05	0.041	82	7	65-135	25	
2-Nitrophenol		<0.001	0.050	0.048	96	0.05	0.046	92	4	65-135	25	
4-Nitrophenol		<0.001	0.050	0.038	76	0.05	0.036	72	5	10-80	50	
N-Nitrosodi-n-Propylamine		<0.001	0.050	0.059	118	0.05	0.056	112	5	22-134	38	
N-Nitrosodiphenylamine		<0.002	0.050	0.045	90	0.05	0.042	84	7	2-196	25	
Pentachlorophenol		<0.001	0.050	0.034	68	0.05	0.034	68	0	17-117	50	
Phenanthrene		<0.001	0.050	0.048	96	0.05	0.045	90	6	65-135	25	
Phenol		<0.001	0.050	0.031	62	0.05	0.029	58	7	12-110	25	
Pyrene		<0.001	0.050	0.056	112	0.05	0.052	104	7	23-152	31	
Pyridine		<0.004	0.050	0.030	60	0.05	0.027	54	11	16-86	28	
2,4,5-Trichlorophenol		<0.001	0.050	0.041	82	0.05	0.039	78	5	65-135	25	
2,4,6-Trichlorophenol		<0.001	0.050	0.046	92	0.05	0.043	86	7	65-135	25	

Relative Percent Difference RPD = $200 * ((C-F) / (C+F))$
 Blank Spike Recovery [D] = $100 * (C) / (B)$
 Blank Spike Duplicate Recovery [G] = $100 * (F) / (E)$
 All results are based on MDL and Validated for QC Purposes



Prelogin / Nonconformance Report - Sample Log-In

Client: UFS - Corp
 Date/Time: 7/28/09
 Lab ID #: 339015
 Initials: HT

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when-relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No. <u>575</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>575</u> lbs <u>2.2</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 339108

Reviewer: Tony Sedlacek

Date Reviewed: 1/7/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-2-50	GWP-2-58
GWP-3-50	GWP-3-58

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that the surrogate recovery for nitrobenzene-d₅ was above evaluation criteria. Samples were diluted due to high levels of target analytes. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated there were discrepancies between the sample labels and COC. The COC had GWP-2-50 and the sample label had GWP-3-50 also, the COC had GWP-2-58 and the sample label had GWP-3-58. The laboratory contact URS and was directed that the labels were correct. The samples were logged in as GWP-3-50 and GWP-3-58. All sample discrepancies were resolved prior to sample analysis. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Field ID	Parameter	Surrogate	Recovery	Criteria
GWP-3-58DL	SVOCs	Nitrobenzene-d ₅	118	35-114

The compounds 2-methylnaphthalene and naphthalene were reported from the diluted sample. These compounds are not associated with the surrogate nitrobenzene-d₅; therefore, no qualification of data was required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 339108

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

31-JUL-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

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31-JUL-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **339108**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 339108. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 339108 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Sample Cross Reference 339108



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-2-50	W	Jul-28-09 10:58		339108-001
GWP-2-58	W	Jul-28-09 12:20		339108-002
GWP-3-50	W	Jul-28-09 14:55		339108-003
GWP-3-58	W	Jul-28-09 16:20		339108-004

CASE NARRATIVE



Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 339108

Report Date: 31-JUL-09
Date Received: 07/29/2009

Sample receipt non conformances and Comments:

Line 3 of the COC has the field ID written as GWP-2-50 and the container label has GWP-3-50. Line 4 of the COC has the field ID written as GWP-2-58 and the container label has GWP-3-58. Dates and times collected for these two samples match the date and times collected on the COC for line 3 and 4. The client was contacted and the bottle labels are correct, the COC field IDs were written wrong. Line 3 should be identified as GWP-3-50 and line 4 should be GWP-3-58.

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-767118 SVOCs by SW-846 8270C

Surrogate Nitrobenzene-d5 recovered above QC limits due to dilution

Samples affected are: 339108-004.



Certificate of Analysis Summary 339108

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Wed Jul-29-09 08:45 am

Report Date: 31-JUL-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	339108-001	339108-002	339108-003	339108-004
	GWP-2-50	GWP-2-50		WATER	WATER	WATER	WATER	WATER	GWP-3-50	GWP-2-58	GWP-3-50	GWP-3-58
	Jul-28-09 10:58	Jul-29-09 13:19	Jul-30-09 12:34	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
Gc/Ms For Semivolatile Organics (Capillary Column Technique)	U 0.005	U 0.005	U 0.021	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Acenaphthene	U 0.005	U 0.005	U 0.021	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Acenaphthylene	U 0.005	U 0.005	U 0.021	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Aniline (Phenylamine, Aminobenzene)	U 0.005	U 0.005	U 0.021	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Anthracene	U 0.005	U 0.005	U 0.021	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(a)anthracene	U 0.005	U 0.005	U 0.021	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(a)pyrene	U 0.005	U 0.005	U 0.021	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(b)fluoranthene	U 0.005	U 0.005	U 0.021	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(k)fluoranthene	U 0.005	U 0.005	U 0.021	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(g,h,i)perylene	U 0.005	U 0.005	U 0.021	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzoic Acid	U 0.031	U 0.031	U 0.031	U 0.031	U 0.031	U 0.031	U 0.031	U 0.031	U 0.031	U 0.031	U 0.031	U 0.031
Benzyol Butyl Phthalate	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
bis(2-chloroethoxy) methane	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
bis(2-chloroethyl) ether	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
bis(2-chloroisopropyl) ether	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
bis(2-ethylhexyl) phthalate	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
4-Bromophenyl-phenylether	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
4-chloro-3-methylphenol	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
4-Chloroaniline	U 0.021	U 0.021	U 0.021	U 0.021	U 0.021	U 0.021	U 0.021	U 0.021	U 0.021	U 0.021	U 0.021	U 0.021
2-Chloronaphthalene	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
2-Chlorophenol	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
4-Chlorophenyl Phenyl Ether	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
Chrysene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Dibenz(a,h)anthracene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Dibenzofuran	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
di-n-Butyl Phthalate	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro

Managing Director, Texas



Certificate of Analysis Summary 339108

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
 Contact: Wendy Pennington
 Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Wed Jul-29-09 08:45 am

Report Date: 31-JUL-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339108-001	339108-002	339108-003	339108-004
	Field Id: Depth: Matrix: Sampled:	GWP-2-50 WATER Jul-28-09 10:58	GWP-2-58 WATER Jul-28-09 12:20	GWP-3-50 WATER Jul-28-09 14:55	GWP-3-58 WATER Jul-28-09 16:20
Gc/Ms For Semivolatle Organics (Capillary Column Technique)	Extracted: Analyzed: Units/RL:	Jul-29-09 13:19 Jul-30-09 12:34 mg/L RL	Jul-29-09 13:22 Jul-30-09 13:12 mg/L RL	Jul-29-09 13:25 Jul-30-09 13:50 mg/L RL	Jul-29-09 13:28 Jul-30-09 14:27 mg/L RL
3,3-Dichlorobenzidine		U 0.010	U 0.011	U 0.010	U 0.010
2,4-Dichlorophenol		U 0.010	U 0.011	U 0.010	U 0.010
Diethyl Phthalate		U 0.005	U 0.006	U 0.005	U 0.005
Dimethyl Phthalate		U 0.005	U 0.006	U 0.005	U 0.005
2,4-Dimethylphenol		U 0.010	U 0.011	U 0.010	U 0.010
4,6-dinitro-2-methyl phenol		U 0.010	U 0.011	U 0.010	U 0.010
2,4-Dinitrophenol		U 0.010	U 0.011	U 0.010	U 0.010
2,4-Dinitrotoluene		U 0.010	U 0.011	U 0.010	U 0.010
2,6-Dinitrotoluene		U 0.010	U 0.011	U 0.010	U 0.010
di-n-Octyl Phthalate		U 0.005	U 0.006	U 0.005	U 0.005
Fluoranthene		U 0.005	U 0.006	U 0.005	U 0.005
Fluorene		U 0.005	U 0.006	0.002 J 0.005	U 0.005
Hexachlorobenzene		U 0.010	U 0.011	U 0.010	U 0.010
Hexachlorocyclopentadiene		U 0.010	U 0.011	U 0.010	U 0.010
Hexachloroethane		U 0.010	U 0.011	U 0.010	U 0.010
Indeno(1,2,3-c,d)Pyrene		U 0.005	U 0.006	U 0.005	U 0.005
Isophorone		U 0.010	U 0.011	U 0.010	U 0.010
2-Methylnaphthalene		U 0.005	U 0.006	0.101 D 0.052	0.321 D 0.051
2-methylphenol		U 0.010	U 0.011	U 0.010	U 0.010
Naphthalene		U 0.005	U 0.006	0.186 D 0.052	0.294 D 0.051
2-Nitroaniline		U 0.010	U 0.011	U 0.010	U 0.010
3-Nitroaniline		U 0.010	U 0.011	U 0.010	U 0.010
4-Nitroaniline		U 0.021	U 0.023	U 0.021	U 0.020
Nitrobenzene		U 0.010	U 0.011	U 0.010	U 0.010
2-Nitrophenol		U 0.010	U 0.011	U 0.010	U 0.010

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Carlos Castro

Managing Director, Texas

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Wed Jul-29-09 08:45 am

Report Date: 31-JUL-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339108-001	339108-002	339108-003	339108-004
	Field Id:	GWP-2-50	GWP-2-58	GWP-3-50	GWP-3-58
	Depth:				
	Matrix:	WATER	WATER	WATER	WATER
	Sampled:	Jul-28-09 10:58	Jul-28-09 12:20	Jul-28-09 14:55	Jul-28-09 16:20
Gc/MS For Semivolatile Organics (Capillary Column Technique)	Extracted:	Jul-29-09 13:19	Jul-29-09 13:22	Jul-29-09 13:25	Jul-29-09 13:28
	Analyzed:	Jul-30-09 12:34	Jul-30-09 13:12	Jul-30-09 13:50	Jul-30-09 14:27
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL
4-Nitrophenol		U 0.010	U 0.011	U 0.010	U 0.010
N-Nitrosodi-n-Propylamine		U 0.010	U 0.011	U 0.010	U 0.010
N-Nitrosodiphenylamine		U 0.010	U 0.011	U 0.010	U 0.010
Pentachlorophenol		U 0.010	U 0.011	U 0.010	U 0.010
Phenanthrene		U 0.005	U 0.006	U 0.005	0.029 0.005
Phenol		U 0.010	U 0.011	U 0.010	U 0.010
Pyrene		U 0.005	U 0.006	U 0.005	U 0.005
Pyridine		U 0.010	U 0.011	U 0.010	U 0.010
2,4,5-Trichlorophenol		U 0.010	U 0.011	U 0.010	U 0.010
2,4,6-Trichlorophenol		U 0.010	U 0.011	U 0.010	U 0.010

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro
Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : Gc/Ms For Semivolatile Organics (Capill)

Client : URS Corporation-St. Louis

Work Order #: 339108

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-3-58	Jul. 28, 2009	Jul. 29, 2009	Jul. 29, 2009	7	1	Jul.30, 2009	40	1	P
GWP-2-50	Jul. 28, 2009	Jul. 29, 2009	Jul. 29, 2009	7	1	Jul.30, 2009	40	1	P
GWP-3-50	Jul. 28, 2009	Jul. 29, 2009	Jul. 29, 2009	7	1	Jul.30, 2009	40	1	P
GWP-2-58	Jul. 28, 2009	Jul. 29, 2009	Jul. 29, 2009	7	1	Jul.30, 2009	40	1	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339108,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767118

Sample: 534497-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/30/09 10:41

SURROGATE RECOVERY STUDY

Gc/Ms For Semivolatile Organics (Capillary Column Technique) Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.051	0.050	102	43-116	
2-Fluorophenol	0.035	0.050	70	21-100	
Nitrobenzene-d5	0.044	0.050	88	35-114	
Phenol-d6	0.022	0.050	44	10-94	
Terphenyl-D14	0.053	0.050	106	33-141	
2,4,6-Tribromophenol	0.035	0.050	70	10-123	

Lab Batch #: 767118

Sample: 534497-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/30/09 11:19

SURROGATE RECOVERY STUDY

Gc/Ms For Semivolatile Organics (Capillary Column Technique) Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.047	0.050	94	43-116	
2-Fluorophenol	0.035	0.050	70	21-100	
Nitrobenzene-d5	0.044	0.050	88	35-114	
Phenol-d6	0.026	0.050	52	10-94	
Terphenyl-D14	0.052	0.050	104	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

Lab Batch #: 767118

Sample: 534497-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/30/09 11:57

SURROGATE RECOVERY STUDY

Gc/Ms For Semivolatile Organics (Capillary Column Technique) Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.047	0.050	94	43-116	
2-Fluorophenol	0.033	0.050	66	21-100	
Nitrobenzene-d5	0.044	0.050	88	35-114	
Phenol-d6	0.025	0.050	50	10-94	
Terphenyl-D14	0.052	0.050	104	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339108,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767118

Sample: 339108-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/30/09 12:34

SURROGATE RECOVERY STUDY

Gc/Ms For Semivolatile Organics (Capillary Column Technique) Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.045	0.052	87	43-116	
2-Fluorophenol	0.024	0.052	46	21-100	
Nitrobenzene-d5	0.039	0.052	75	35-114	
Phenol-d6	0.013	0.052	25	10-94	
Terphenyl-D14	0.047	0.052	90	33-141	
2,4,6-Tribromophenol	0.040	0.052	77	10-123	

Lab Batch #: 767118

Sample: 339108-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/30/09 13:12

SURROGATE RECOVERY STUDY

Gc/Ms For Semivolatile Organics (Capillary Column Technique) Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.046	0.056	82	43-116	
2-Fluorophenol	0.028	0.056	50	21-100	
Nitrobenzene-d5	0.040	0.056	71	35-114	
Phenol-d6	0.018	0.056	32	10-94	
Terphenyl-D14	0.050	0.056	89	33-141	
2,4,6-Tribromophenol	0.038	0.056	68	10-123	

Lab Batch #: 767118

Sample: 339108-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/30/09 13:50

SURROGATE RECOVERY STUDY

Gc/Ms For Semivolatile Organics (Capillary Column Technique) Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.040	0.052	77	43-116	
2-Fluorophenol	0.015	0.052	29	21-100	
Nitrobenzene-d5	0.036	0.052	69	35-114	
Phenol-d6	0.013	0.052	25	10-94	
Terphenyl-D14	0.041	0.052	79	33-141	
2,4,6-Tribromophenol	0.039	0.052	75	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339108,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767118

Sample: 339108-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/30/09 14:27

SURROGATE RECOVERY STUDY

Gc/Ms For Semivolatile Organics (Capillary Column Technique) Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.047	0.051	92	43-116	
2-Fluorophenol	0.019	0.051	37	21-100	
Nitrobenzene-d5	0.051	0.051	100	35-114	
Phenol-d6	0.014	0.051	27	10-94	
Terphenyl-D14	0.045	0.051	88	33-141	
2,4,6-Tribromophenol	0.058	0.051	114	10-123	

Lab Batch #: 767118

Sample: 339108-003 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/30/09 15:05

SURROGATE RECOVERY STUDY

Gc/Ms For Semivolatile Organics (Capillary Column Technique) Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.042	0.052	81	43-116	
2-Fluorophenol	0.026	0.052	50	21-100	
Nitrobenzene-d5	0.037	0.052	71	35-114	
Phenol-d6	0.010	0.052	19	10-94	
Terphenyl-D14	0.040	0.052	77	33-141	
2,4,6-Tribromophenol	0.032	0.052	62	10-123	

Lab Batch #: 767118

Sample: 339108-004 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/30/09 15:43

SURROGATE RECOVERY STUDY

Gc/Ms For Semivolatile Organics (Capillary Column Technique) Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.048	0.051	94	43-116	
2-Fluorophenol	0.039	0.051	76	21-100	
Nitrobenzene-d5	0.060	0.051	118	35-114	***
Phenol-d6	0.033	0.051	65	10-94	
Terphenyl-D14	0.045	0.051	88	33-141	
2,4,6-Tribromophenol	0.033	0.051	65	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Project Name: 900 S. Central Avenue

Work Order #: 339108

Analyst: KAN

Lab Batch ID: 767118

Sample: 534497-1-BKS

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 07/30/2009

Matrix: Water

Date Prepared: 07/29/2009

Batch #: 1

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Gc/MS For Semivolatile Organics (Capillary Column Technique)	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Acenaphthene	<0.001	0.050	0.045	90	0.05	0.045	90	0	27-132	31		
Acenaphthylene	<0.001	0.050	0.045	90	0.05	0.046	92	2	46-108	25		
Aniline (Phenylamine, Aminobenzene)	<0.001	0.050	0.047	94	0.05	0.045	90	4	5-115	25		
Anthracene	<0.001	0.050	0.046	92	0.05	0.046	92	0	47-145	25		
Benzo(a)anthracene	<0.001	0.050	0.044	88	0.05	0.049	98	11	33-143	25		
Benzo(a)pyrene	<0.001	0.050	0.049	98	0.05	0.048	96	2	65-135	25		
Benzo(b)fluoranthene	<0.001	0.050	0.046	92	0.05	0.048	96	4	24-159	25		
Benzo(k)fluoranthene	<0.001	0.050	0.048	96	0.05	0.047	94	2	25-125	25		
Benzo(g,h,i)perylene	<0.001	0.050	0.044	88	0.05	0.045	90	2	65-135	25		
Benzoic Acid	<0.009	0.150	0.122	81	0.15	0.103	69	17	30-115	40		
Benzyl Butyl Phthalate	<0.001	0.050	0.051	102	0.05	0.051	102	0	65-135	25		
bis(2-chloroethoxy) methane	<0.001	0.050	0.039	78	0.05	0.038	76	3	54-188	25		
bis(2-chloroethyl) ether	<0.001	0.050	0.039	78	0.05	0.039	78	0	65-135	25		
bis(2-chloroisopropyl) ether	<0.001	0.050	0.037	74	0.05	0.037	74	0	65-135	25		
bis(2-ethylhexyl) phthalate	<0.001	0.050	0.042	84	0.05	0.043	86	2	8-158	25		
4-Bromophenyl-phenylether	<0.001	0.050	0.045	90	0.05	0.046	92	2	65-135	25		
4-chloro-3-methylphenol	<0.001	0.050	0.047	94	0.05	0.040	80	16	16-129	33		
4-Chloroaniline	<0.001	0.050	0.056	112	0.05	0.056	112	0	9-128	25		
2-Chloronaphthalene	<0.001	0.050	0.044	88	0.05	0.045	90	2	65-135	25		
2-Chlorophenol	<0.001	0.050	0.042	84	0.05	0.041	82	2	16-116	40		

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 339108

Analyst: KAN

Lab Batch ID: 767118

Sample: 534497-1-BKS

Date Prepared: 07/29/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 07/30/2009

Matrix: Water

Units: mg/L

Gc/MS For Semivolatile Organics (Capillary Column Technique)	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
4-Chlorophenyl Phenyl Ether	<0.001	0.050	0.045	90	0.05	0.045	90	0	65-135	25	
Chrysene	<0.001	0.050	0.048	96	0.05	0.048	96	0	65-135	25	
Dibenz(a,h)anthracene	<0.001	0.050	0.045	90	0.05	0.045	90	0	50-125	25	
Dibenzofuran	<0.001	0.050	0.046	92	0.05	0.046	92	0	52-125	25	
di-n-Butyl Phthalate	<0.003	0.050	0.044	88	0.05	0.044	88	0	49-135	50	
3,3-Dichlorobenzidine	<0.002	0.050	0.064	128	0.05	0.055	110	15	12-147	25	
2,4-Dichlorophenol	<0.001	0.050	0.048	96	0.05	0.048	96	0	65-135	25	
Diethyl Phthalate	<0.001	0.050	0.044	88	0.05	0.044	88	0	37-125	50	
Dimethyl Phthalate	<0.001	0.050	0.045	90	0.05	0.045	90	0	25-175	50	
2,4-Dimethylphenol	<0.001	0.050	0.048	96	0.05	0.049	98	2	32-119	25	
4,6-dinitro-2-methyl phenol	<0.001	0.050	0.044	88	0.05	0.045	90	2	2-181	25	
2,4-Dinitrophenol	<0.001	0.050	0.042	84	0.05	0.039	78	7	65-135	25	
2,4-Dinitrotoluene	<0.001	0.050	0.045	90	0.05	0.046	92	2	22-135	38	
2,6-Dinitrotoluene	<0.001	0.050	0.043	86	0.05	0.043	86	0	49-122	38	
di-n-Octyl Phthalate	<0.001	0.050	0.045	90	0.05	0.045	90	0	43-134	50	
Fluoranthene	<0.001	0.050	0.045	90	0.05	0.045	90	0	47-125	25	
Fluorene	<0.001	0.050	0.045	90	0.05	0.045	90	0	48-139	25	
Hexachlorobenzene	<0.001	0.050	0.046	92	0.05	0.047	94	2	46-133	25	
Hexachlorocyclopentadiene	<0.001	0.050	0.043	86	0.05	0.044	88	2	41-125	25	
Hexachloroethane	<0.001	0.050	0.038	76	0.05	0.038	76	0	25-153	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 339108

Analyst: KAN

Lab Batch ID: 767118

Sample: 534497-1-BKS

Date Prepared: 07/29/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 07/30/2009

Matrix: Water

Units: mg/L

Gc/MS For Semivolatile Organics (Capillary Column Technique)		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
	Indeno(1,2,3-c,d)Pyrene	<0.001	0.050	0.048	96	0.05	0.048	96	0	27-160	25	
	Isophorone	<0.001	0.050	0.050	100	0.05	0.051	102	2	26-175	25	
	2-Methylnaphthalene	<0.001	0.050	0.048	96	0.05	0.049	98	2	25-175	25	
	2-methylphenol	<0.001	0.050	0.041	82	0.05	0.040	80	2	14-176	25	
	Naphthalene	<0.001	0.050	0.043	86	0.05	0.043	86	0	26-175	25	
	2-Nitroaniline	<0.001	0.050	0.042	84	0.05	0.043	86	2	65-135	25	
	3-Nitroaniline	<0.002	0.050	0.052	104	0.05	0.051	102	2	65-135	25	
	4-Nitroaniline	<0.001	0.050	0.059	118	0.05	0.054	108	9	65-135	25	
	Nitrobenzene	<0.001	0.050	0.041	82	0.05	0.041	82	0	65-135	25	
	2-Nitrophenol	<0.001	0.050	0.046	92	0.05	0.046	92	0	65-135	25	
	4-Nitrophenol	<0.001	0.050	0.039	78	0.05	0.036	72	8	10-80	50	
	N-Nitrosodi-n-Propylamine	<0.001	0.050	0.057	114	0.05	0.056	112	2	22-134	38	
	N-Nitrosodiphenylamine	<0.002	0.050	0.043	86	0.05	0.042	84	2	2-196	25	
	Pentachlorophenol	<0.001	0.050	0.037	74	0.05	0.040	80	8	17-117	50	
	Phenanthrene	<0.001	0.050	0.046	92	0.05	0.046	92	0	65-135	25	
	Phenol	<0.001	0.050	0.031	62	0.05	0.026	52	18	12-110	25	
	Pyrene	<0.001	0.050	0.054	108	0.05	0.055	110	2	23-152	31	
	Pyridine	<0.004	0.050	0.021	42	0.05	0.019	38	10	16-86	28	
	2,4,5-Trichlorophenol	<0.001	0.050	0.040	80	0.05	0.041	82	2	65-135	25	
	2,4,6-Trichlorophenol	<0.001	0.050	0.044	88	0.05	0.045	90	2	65-135	25	

Relative Percent Difference RPD = $200 * [(C-F) / (C+F)]$
 Blank Spike Recovery [D] = $100 * (C) / [B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$
 All results are based on MDL and Validated for QC Purposes



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

4143 Greenbriar Dr., Stafford, TX 77477
 PH: 281-240-4200 FAX: 281-240-4280

- XENCO
- CALSCIENCE
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 - LUBES
 - OTHER

- Print Bill To Contact Name:**
- KEVIN DYER
 PO # _____

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
 DATE: 7-28-9
 PAGE: 1 of 1

CONSULTANT COMPANY: URS CORPORATION - FIELD OFFICE

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300

CITY: ST. LOUIS, MISSOURI 63110

TELEPHONE OFF: 314-743-4166 FAX: OFF: 314-743-4168
 CELL: 314-452-8929 CELL: 314-452-8928

STATE: MISSOURI

TURNS AROUND TIME (CALENDAR DAYS):
 STANDARD (10 DAY) 5 DAYS 3 DAYS 2 DAYS

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT °C: 2.6°C Cooler #1 _____ Cooler #2 _____

SPECIAL INSTRUCTIONS OR NOTES:

Please include "J" values on Level 2 Reports
 Please provide sample receipt upon login.

LAB USE ONLY

Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT.	
	DATE	TIME		HCL	HNO3	H2SO4		NONE
GWP-2-50	7/28/9	1058	Water				X	2
GWP-2-58	7/28/9	1220	↓				X	2
GWP-2-50	7/28/9	1455	↓				X	2
GWP-2-58	7/28/9	1620	↓				X	2

Relinquished by: (Signature) *N. Satam*

Received by: (Signature) _____

Relinquished by: (Signature) _____

Received by: (Signature) _____

Relinquished by: (Signature) _____

Received by: (Signature) *Kevin Dyer*

Date: 7/28/9 Time: 1745

Date: 7/29/09 Time: 0845

FED EX

Requested Analysis: VOC 8260B, SVOC/PAH 8270B, moisture

Requested Project Name/No.: Route 111 & Rand Ave Vicinity J21561979

Sampler Name(s) (Print): N. Satam

Lab Use Only: 339/08-1



Prelogin / Nonconformance Report - Sample Log-In

Client: URS
 Date/Time: 7-29-09
 Lab ID #: 339108
 Initials: TJ

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when-relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	Yes	<u>No</u>		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No. <u>01</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>57 lbs</u> <u>2.6°C</u>	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: Wendy Pennington Contacted by: Debbie Simmons ^{email} Date/Time: 7/29/09

Regarding: 003 - Coc says GWP-2-50 Bottle says GWP-3-50, 004
Coc says GWP-2-58 - Bottle says GWP-3-58 - Time & Date match

Corrective Action Taken: Labels on containers are correct, Coc wrong for line 003 and 004

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 339231

Reviewer: Tony Sedlacek

Date Reviewed: 1/7/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-4-50	GWP-4-58
GWP-6-50	GWP-6-50D
GWP-6-58	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that SVOC LCS recoveries were outside evaluation criteria. Samples were diluted due to high levels of target analytes. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that there was a sample time discrepancy between the sample label and COC for sample GWP-4-58. The sample label had a sample time of 1220 and the COC had a sample time of 1120. The laboratory contacted URS and was directed that the COC time of 1120 was correct; therefore, the sample was logged in with a sample time of 1120. Also, the sample data was not filled out on the COC. Samples were being collected and shipped on a daily basis, so the laboratory used the ship date as the sample date. These issues were resolved prior to sample analysis. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No, 13 out of 61 SVOC LCS/LCSD RPDs were outside evaluation criteria and were not listed individually.

Analytical data did not require qualification since LCS and LCSD recoveries were within evaluation criteria and samples are not qualified due to LCS/LCSD RPDs outside evaluation criteria alone.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 339231

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

31-JUL-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

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31-JUL-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **339231**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 339231. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 339231 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Sample Cross Reference 339231



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-4-50	W	Jul-29-09 10:40		339231-001
GWP-4-58	W	Jul-29-09 11:20		339231-002
GWP-6-50	W	Jul-29-09 15:00		339231-003
GWP-6-50 D	W	Jul-29-09 16:00		339231-004
GWP-6-58	W	Jul-29-09 17:00		339231-005



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 339231

Report Date: 31-JUL-09
Date Received: 07/30/2009

Sample receipt non conformances and Comments:

GWP-4-58 container labeled as collected @ 12:20 and COC has collected at 11:20. Client was contacted and correct time is on COC, 11:20. Date sampled also not on COC. Samples being collected and shipped on a daily basis, the date of 7/29, date shipped, is being used for these samples.

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-767244 SVOCs by SW-846 8270C

2,4-Dichlorophenol, 2,4-Dimethylphenol, 2-Methylnaphthalene, 3,3-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline, Benzoic Acid, Benzyl Butyl Phthalate, Isophorone, Phenol, Pyrene, Pyridine RPD was outside laboratory control limits in the Blank Spike/Blank Spike Duplicate.

Samples affected are: 339231-003, -005, -002, -001, -004



Certificate of Analysis Summary 339231

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Jul-30-09 08:45 am

Report Date: 31-JUL-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	339231-001	339231-002	339231-003	339231-004	339231-005	
	GWP-4-50	GWP-4-50	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
	Jul-29-09 10:40	Jul-29-09 10:40	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
SVOAs by SW-846 8270C	Jul-30-09 10:30	Jul-30-09 10:33	Jul-30-09 10:36	Jul-30-09 10:39	Jul-30-09 10:42	Jul-30-09 10:42	Jul-30-09 10:42	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Acenaphthene	Jul-30-09 21:23	Jul-31-09 12:06	Jul-31-09 12:43	Jul-31-09 13:19	Jul-31-09 13:55	Jul-31-09 13:55	Jul-31-09 13:55	U 0.005	U 0.005	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020
Acenaphthylene								U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Aniline (Phenylamine, Aminobenzene)								U 0.020	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020
Anthracene								U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(a)anthracene								U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(a)pyrene								U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(b)fluoranthene								U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(k)fluoranthene								U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(g,h,i)perylene								U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzoic Acid								U 0.031	U 0.031	U 0.030	U 0.030	U 0.030	U 0.031	U 0.031
Benzyl Butyl Phthalate								U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
bis(2-chloroethoxy) methane								U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
bis(2-chloroethyl) ether								U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
bis(2-chloroisopropyl) ether								U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
bis(2-ethylhexyl) phthalate								U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
4-Bromophenyl-phenylether								U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
4-chloro-3-methylphenol								U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
4-Chloroaniline								U 0.020	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020
2-Chloronaphthalene								U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
2-Chlorophenol								U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
4-Chlorophenyl Phenyl Ether								U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
Chrysene								U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Dibenzo(a,h)anthracene								U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Dibenzofuran								U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
di-n-Butyl Phthalate								U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005

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Carlos Castro
Managing Director, Texas

Certificate of Analysis Summary 339231

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084
Project Name: 900 S. Central Avenue
Date Received in Lab: Thu Jul-30-09 08:45 am
Report Date: 31-JUL-09
Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	339231-001	339231-002	339231-003	339231-004	339231-005		
	GWP-4-50	GWP-4-50		WATER	Jul-29-09 10:40	Jul-30-09 10:30	Jul-30-09 21:23	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
SVOAs by SW-846 8270C															
3,3-Dichlorobenzidine									U	0.010	U	0.010	U	0.010	U
2,4-Dichlorophenol									U	0.010	U	0.010	U	0.010	U
Diethyl Phthalate									U	0.005	U	0.005	U	0.005	U
Dimethyl Phthalate									U	0.005	U	0.005	U	0.005	U
2,4-Dimethylphenol									U	0.010	0.004 J	0.010	0.004 J	0.010	0.005 J
4,6-dinitro-2-methyl phenol									U	0.010	U	0.010	U	0.010	U
2,4-Dinitrophenol									U	0.010	U	0.010	U	0.010	U
2,4-Dinitrotoluene									U	0.010	U	0.010	U	0.010	U
2,6-Dinitrotoluene									U	0.010	U	0.010	U	0.010	U
di-n-Octyl Phthalate									U	0.005	U	0.005	U	0.005	U
Fluoranthene									U	0.005	U	0.005	U	0.005	U
Fluorene									U	0.005	U	0.005	U	0.005	U
Hexachlorobenzene									U	0.010	U	0.010	U	0.010	U
Hexachlorocyclopentadiene									U	0.010	U	0.010	U	0.010	U
Hexachloroethane									U	0.010	U	0.010	U	0.010	U
Indeno(1,2,3-c,d)Pyrene									U	0.005	U	0.005	U	0.005	U
Isophorone									U	0.010	U	0.010	U	0.010	U
2-Methylnaphthalene									0.028	0.005	0.038	0.005	0.043	0.005	0.015
2-methylphenol									U	0.010	0.012	0.010	0.013	0.010	0.011
3&4-Methylphenol									U	0.010	0.020	0.010	0.021	0.010	0.018
Naphthalene									0.061	0.005	0.182 D	0.051	0.194 D	0.051	0.081
2-Nitroaniline									U	0.010	U	0.010	U	0.010	U
3-Nitroaniline									U	0.010	U	0.010	U	0.010	U
4-Nitroaniline									U	0.020	U	0.020	U	0.020	U
Nitrobenzene									U	0.010	U	0.010	U	0.010	U

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 Managing Director, Texas

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Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Thu Jul-30-09 08:45 am

Report Date: 31-JUL-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	339231-001	339231-002	339231-003	339231-004	339231-005
	GWP-4-50	GWP-4-50	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
SVOAs by SW-846 8270C					Jul-29-09 10:40	Jul-30-09 10:30	Jul-30-09 21:23	mg/L	U	U	U	U	U
					Jul-29-09 11:20	Jul-30-09 10:33	Jul-31-09 12:06	mg/L	U	U	U	U	U
					Jul-29-09 15:00	Jul-30-09 10:36	Jul-31-09 12:43	mg/L	U	U	U	U	U
					Jul-29-09 16:00	Jul-30-09 10:39	Jul-31-09 13:19	mg/L	U	U	U	U	U
					Jul-29-09 17:00	Jul-30-09 10:42	Jul-31-09 13:55	mg/L	U	U	U	U	U
								RL	U	U	U	U	U
								RL	U	U	U	U	U
								RL	U	U	U	U	U
								RL	U	U	U	U	U
								RL	U	U	U	U	U
2-Nitrophenol								U	U	U	U	U	
4-Nitrophenol								U	U	U	U	U	
N-Nitrosodi-n-Propylamine								U	U	U	U	U	
N-Nitrosodiphenylamine								U	U	U	U	U	
Pentachlorophenol								U	U	U	U	U	
Phenanthrene								U	U	U	U	U	
Phenol								U	U	U	U	U	
Pyrene								U	U	U	U	U	
Pyridine								U	U	U	U	U	
2,4,5-Trichlorophenol								U	U	U	U	U	
2,4,6-Trichlorophenol								U	U	U	U	U	

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Carlos Castro
Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : SVOAs by SW-846 8270C

Client : URS Corporation-St. Louis

Work Order #: 339231

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-4-50	Jul. 29, 2009	Jul. 30, 2009	Jul. 30, 2009	7	1	Jul.30, 2009	40	0	P
GWP-6-58	Jul. 29, 2009	Jul. 30, 2009	Jul. 30, 2009	7	1	Jul.31, 2009	40	1	P
GWP-6-50 D	Jul. 29, 2009	Jul. 30, 2009	Jul. 30, 2009	7	1	Jul.31, 2009	40	1	P
GWP-6-50	Jul. 29, 2009	Jul. 30, 2009	Jul. 30, 2009	7	1	Jul.31, 2009	40	1	P
GWP-4-58	Jul. 29, 2009	Jul. 30, 2009	Jul. 30, 2009	7	1	Jul.31, 2009	40	1	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339231,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767244

Sample: 534565-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/30/09 19:30

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.044	0.050	88	43-116	
2-Fluorophenol	0.029	0.050	58	21-100	
Nitrobenzene-d5	0.038	0.050	76	35-114	
Phenol-d6	0.024	0.050	48	10-94	
Terphenyl-D14	0.047	0.050	94	33-141	
2,4,6-Tribromophenol	0.033	0.050	66	10-123	

Lab Batch #: 767244

Sample: 534565-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/30/09 20:08

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.043	0.050	86	43-116	
2-Fluorophenol	0.031	0.050	62	21-100	
Nitrobenzene-d5	0.041	0.050	82	35-114	
Phenol-d6	0.024	0.050	48	10-94	
Terphenyl-D14	0.051	0.050	102	33-141	
2,4,6-Tribromophenol	0.040	0.050	80	10-123	

Lab Batch #: 767244

Sample: 339231-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/30/09 21:23

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.051	73	43-116	
2-Fluorophenol	0.013	0.051	25	21-100	
Nitrobenzene-d5	0.031	0.051	61	35-114	
Phenol-d6	0.012	0.051	24	10-94	
Terphenyl-D14	0.034	0.051	67	33-141	
2,4,6-Tribromophenol	0.031	0.051	61	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339231,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767244

Sample: 534565-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 11:30

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.032	0.050	64	43-116	
2-Fluorophenol	0.025	0.050	50	21-100	
Nitrobenzene-d5	0.034	0.050	68	35-114	
Phenol-d6	0.020	0.050	40	10-94	
Terphenyl-D14	0.034	0.050	68	33-141	
2,4,6-Tribromophenol	0.034	0.050	68	10-123	

Lab Batch #: 767244

Sample: 339231-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 12:06

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.031	0.051	61	43-116	
2-Fluorophenol	0.018	0.051	35	21-100	
Nitrobenzene-d5	0.032	0.051	63	35-114	
Phenol-d6	0.013	0.051	25	10-94	
Terphenyl-D14	0.034	0.051	67	33-141	
2,4,6-Tribromophenol	0.033	0.051	65	10-123	

Lab Batch #: 767244

Sample: 339231-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 12:43

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.025	0.051	49	43-116	
2-Fluorophenol	0.021	0.051	41	21-100	
Nitrobenzene-d5	0.026	0.051	51	35-114	
Phenol-d6	0.013	0.051	25	10-94	
Terphenyl-D14	0.027	0.051	53	33-141	
2,4,6-Tribromophenol	0.031	0.051	61	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339231,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767244

Sample: 339231-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 13:19

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.027	0.051	53	43-116	
2-Fluorophenol	0.024	0.051	47	21-100	
Nitrobenzene-d5	0.028	0.051	55	35-114	
Phenol-d6	0.010	0.051	20	10-94	
Terphenyl-D14	0.029	0.051	57	33-141	
2,4,6-Tribromophenol	0.035	0.051	69	10-123	

Lab Batch #: 767244

Sample: 339231-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 13:55

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.027	0.051	53	43-116	
2-Fluorophenol	0.013	0.051	25	21-100	
Nitrobenzene-d5	0.027	0.051	53	35-114	
Phenol-d6	0.011	0.051	22	10-94	
Terphenyl-D14	0.029	0.051	57	33-141	
2,4,6-Tribromophenol	0.034	0.051	67	10-123	

Lab Batch #: 767244

Sample: 339231-003 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 14:32

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.033	0.051	65	43-116	
2-Fluorophenol	0.015	0.051	29	21-100	
Nitrobenzene-d5	0.033	0.051	65	35-114	
Phenol-d6	0.010	0.051	20	10-94	
Terphenyl-D14	0.034	0.051	67	33-141	
2,4,6-Tribromophenol	0.029	0.051	57	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339231,

Lab Batch #: 767244

Sample: 339231-004 / DL

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 15:08

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.034	0.051	67	43-116	
2-Fluorophenol	0.015	0.051	29	21-100	
Nitrobenzene-d5	0.033	0.051	65	35-114	
Phenol-d6	0.011	0.051	22	10-94	
Terphenyl-D14	0.034	0.051	67	33-141	
2,4,6-Tribromophenol	0.029	0.051	57	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Project Name: 900 S. Central Avenue

Work Order #: 339231

Analyst: KAN

Lab Batch ID: 767244

Sample: 534565-1-BKS

Date Prepared: 07/30/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 07/30/2009

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
SVOAs by SW-846 8270C											
Acenaphthene	<0.001	0.050	0.042	84	0.05	0.035	70	18	27-132	31	
Acenaphthylene	<0.001	0.050	0.042	84	0.05	0.035	70	18	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.001	0.050	0.041	82	0.05	0.039	78	5	5-115	25	
Anthracene	<0.001	0.050	0.043	86	0.05	0.036	72	18	47-145	25	
Benzo(a)anthracene	<0.001	0.050	0.043	86	0.05	0.035	70	21	33-143	25	
Benzo(a)pyrene	<0.001	0.050	0.046	92	0.05	0.037	74	22	65-135	25	
Benzo(b)fluoranthene	<0.001	0.050	0.046	92	0.05	0.037	74	22	24-159	25	
Benzo(k)fluoranthene	<0.001	0.050	0.045	90	0.05	0.037	74	20	25-125	25	
Benzo(g,h,i)perylene	<0.001	0.050	0.033	66	0.05	0.039	78	17	65-135	25	
Benzoic Acid	<0.009	0.150	0.115	77	0.15	0.072	48	46	30-115	40	F
Benzyl Butyl Phthalate	<0.001	0.050	0.050	100	0.05	0.037	74	30	65-135	25	F
bis(2-chloroethoxy) methane	<0.001	0.050	0.036	72	0.05	0.034	68	6	54-188	25	
bis(2-chloroethyl) ether	<0.001	0.050	0.036	72	0.05	0.035	70	3	65-135	25	
bis(2-chloroisopropyl) ether	<0.001	0.050	0.035	70	0.05	0.033	66	6	65-135	25	
bis(2-ethylhexyl) phthalate	<0.001	0.050	0.040	80	0.05	0.037	74	8	8-158	25	
4-Bromophenyl-phenylether	<0.001	0.050	0.043	86	0.05	0.037	74	15	65-135	25	
4-chloro-3-methylphenol	<0.001	0.050	0.040	80	0.05	0.034	68	16	16-129	33	
4-Chloroaniline	<0.001	0.050	0.050	100	0.05	0.034	68	38	9-128	25	F
2-Chloronaphthalene	<0.001	0.050	0.041	82	0.05	0.035	70	16	65-135	25	
2-Chlorophenol	<0.001	0.050	0.038	76	0.05	0.035	70	8	16-116	40	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
 Blank Spike Recovery [D] = 100*(C)/[B]
 Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
 All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 339231

Analyst: KAN

Lab Batch ID: 767244

Sample: 534565-1-BKS

Date Prepared: 07/30/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 07/30/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
4-Chlorophenyl Phenyl Ether		<0.001	0.050	0.042	84	0.05	0.035	70	18	65-135	25	
Chrysene		<0.001	0.050	0.047	94	0.05	0.037	74	24	65-135	25	
Dibenz(a,h)anthracene		<0.001	0.050	0.036	72	0.05	0.039	78	8	50-125	25	
Dibenzofuran		<0.001	0.050	0.043	86	0.05	0.035	70	21	52-125	25	
di-n-Butyl Phthalate		<0.003	0.050	0.042	84	0.05	0.036	72	15	49-135	50	
3,3-Dichlorobenzidine		<0.002	0.050	0.060	120	0.05	0.033	66	58	12-147	25	F
2,4-Dichlorophenol		<0.001	0.050	0.045	90	0.05	0.033	66	31	65-135	25	F
Diethyl Phthalate		<0.001	0.050	0.042	84	0.05	0.035	70	18	37-125	50	
Dimethyl Phthalate		<0.001	0.050	0.042	84	0.05	0.035	70	18	25-175	50	
2,4-Dimethylphenol		<0.001	0.050	0.047	94	0.05	0.035	70	29	32-119	25	F
4,6-dinitro-2-methyl phenol		<0.001	0.050	0.042	84	0.05	0.037	74	13	2-181	25	
2,4-Dinitrophenol		<0.001	0.050	0.039	78	0.05	0.038	76	3	65-135	25	
2,4-Dinitrotoluene		<0.001	0.050	0.043	86	0.05	0.037	74	15	22-135	38	
2,6-Dinitrotoluene		<0.001	0.050	0.040	80	0.05	0.037	74	8	49-122	38	
di-n-Octyl Phthalate		<0.001	0.050	0.044	88	0.05	0.036	72	20	43-134	50	
Fluoranthene		<0.001	0.050	0.042	84	0.05	0.035	70	18	47-125	25	
Fluorene		<0.001	0.050	0.042	84	0.05	0.036	72	15	48-139	25	
Hexachlorobenzene		<0.001	0.050	0.044	88	0.05	0.037	74	17	46-133	25	
Hexachlorocyclopentadiene		<0.001	0.050	0.041	82	0.05	0.034	68	19	41-125	25	
Hexachloroethane		<0.001	0.050	0.035	70	0.05	0.036	72	3	25-153	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 339231

Analyst: KAN

Lab Batch ID: 767244

Sample: 534565-1-BKS

Date Prepared: 07/30/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 07/30/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Indeno(1,2,3-c,d)Pyrene		<0.001	0.050	0.038	76	0.05	0.040	80	5	27-160	25	
Isophorone		<0.001	0.050	0.047	94	0.05	0.034	68	32	26-175	25	F
2-Methylnaphthalene		<0.001	0.050	0.045	90	0.05	0.033	66	31	25-175	25	F
2-methylphenol		<0.001	0.050	0.037	74	0.05	0.033	66	11	14-176	25	
3&4-Methylphenol		<0.002	0.100	0.075	75	0.1	0.076	76	1	14-176	25	
Naphthalene		<0.001	0.050	0.040	80	0.05	0.033	66	19	26-175	25	
2-Nitroaniline		<0.001	0.050	0.040	80	0.05	0.036	72	11	65-135	25	
3-Nitroaniline		<0.002	0.050	0.048	96	0.05	0.037	74	26	65-135	25	F
4-Nitroaniline		<0.001	0.050	0.055	110	0.05	0.034	68	47	65-135	25	F
Nitrobenzene		<0.001	0.050	0.038	76	0.05	0.035	70	8	65-135	25	
2-Nitrophenol		<0.001	0.050	0.043	86	0.05	0.035	70	21	65-135	25	
4-Nitrophenol		<0.001	0.050	0.036	72	0.05	0.033	66	9	10-80	50	
N-Nitrosodi-n-Propylamine		<0.001	0.050	0.052	104	0.05	0.038	76	31	22-134	38	
N-Nitrosodiphenylamine		<0.002	0.050	0.040	80	0.05	0.039	78	3	2-196	25	
Pentachlorophenol		<0.001	0.050	0.034	68	0.05	0.034	68	0	17-117	50	
Phenanthrene		<0.001	0.050	0.043	86	0.05	0.036	72	18	65-135	25	
Phenol		<0.001	0.050	0.028	56	0.05	0.021	42	29	12-110	25	F
Pyrene		<0.001	0.050	0.053	106	0.05	0.036	72	38	23-152	31	F
Pyridine		<0.004	0.050	0.024	48	0.05	0.018	36	29	16-86	28	F
2,4,5-Trichlorophenol		<0.001	0.050	0.038	76	0.05	0.036	72	5	65-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 339231

Analyst: KAN

Lab Batch ID: 767244

Sample: 534565-1-BKS

Date Prepared: 07/30/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 07/30/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
2,4,6-Trichlorophenol		<0.001	0.050	0.042	84	0.05	0.033	66	24	65-135	25	

Relative Percent Difference RPD = $200 * [(C-F) / (C+F)]$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

XENCO (PHL-2BL-240-420L) OFF: 314-743-4166 FAX: 314-452-8929
 CALSCIENCE () OFF: 314-743-4166 FAX: 314-452-8929
 TEST AMERICA () OFF: 314-743-4166 FAX: 314-452-8929
 SPL () OFF: 314-743-4166 FAX: 314-452-8929
 OTHER () OFF: 314-743-4166 FAX: 314-452-8929

Print Bill To: Contact Name: KEVIN DYER
 Date: 7/29/19
 Page: 1 of 1

INCIDENT # (ENV. SERVICES): 9 7 2 1 6 6 4 0
 DATE: 7/29/19
 CHECK IF NO INCIDENT # APPLIES:

CONSULTANT PROJECT NAME / NO.: 900 S. CENTRAL AVENUE, ROXANA, ILLINOIS 62084
 CONSULTANT PROJECT CONTACT (Report to): WENDY PENNINGTON
 Route 111 & Rand Ave Vicinity / 21561979
 LAB USE ONLY: 339231-A
 SAMPLER NAME(S) (P/N): N. Salam

Print Bill To: Contact Name: KEVIN DYER
 Date: 7/29/19
 Page: 1 of 1

SOPLUS SITE ADDRESS (Street, City and State):
 900 S. CENTRAL AVENUE, ROXANA, ILLINOIS 62084

CONSULTANT COMPANY: URS CORPORATION - FIELD OFFICE
 ADDRESS: 170 E. RAND AVENUE
 CITY: HARTFORD, ILLINOIS 62048

TELEPHONE: OFF: 314-743-4166 FAX: 314-452-8929
 CELL: 314-452-8929
 E-MAIL: wendy_pennington@urscorp.com

TURNAROUND TIME (CALENDAR DAYS):
 1 DAY 3 DAYS 5 DAYS 7 DAYS 10 DAYS

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4
 RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT C° Cooler #1
 Cooler #2
 Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:
 SHELL CONTRACT RATE APPLIES

Please include "J" values on Level 2 Reports
 Please provide sample receipt upon login.

LAB USE ONLY	FIELD SAMPLE IDENTIFICATION		SAMPLING		PRESERVATIVE			NO. OF CONT.	LABORATORY NOTES
	DATE	TIME	MATRIX	HCL	HNO3	H2SO4	NONE		
	GWP-4-50	1040	Water				X	2	48-hg
	GWP-4-58	1120					X	2	Anonymous
	GWP-6-50	1500					X	2	Temp Blot-
	GWP-6-50D	1600					X	2	Included
	GWP-6-58	1700					X	2	

REQUESTED ANALYSIS

ANALYSIS	MOISTURE	VOC 8260B	SVOC/PAH 8270B	PID (ppm)	LABORATORY NOTES
		X	X		
		X	X		
		X	X		
		X	X		
		X	X		

Received by: (Signature) *N. Salam* Date: 7/29/19 Time: 1810
 Received by: (Signature) Date: 7/30/09 Time: 0845
 Received by: (Signature) Date: 7/30/09 Time: 0845



Prelogin / Nonconformance Report - Sample Log-In

Client: URS
Date/Time: 7-30-09
Lab ID #: 339231
Initials: TF

gc

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	<u>No</u>		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No. <u>1399</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>48</u> lbs	<u>2.6</u> lbs	°C	lbs	°C
			lbs	°C
			lbs	°C
			lbs	°C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: (002) Time doesn't match Bottle page 1220, COC page 1120 (Time and ID sample are match)

Corrective Action Taken: _____

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 339233

Reviewer: Tony Sedlacek

Date Reviewed: 1/5/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-1-50	GWP-1-58
TB072709	GWP-2-50
GWP-2-58	GWP-3-50
GWP-3-58	GWP-4-50
GWP-4-58	GWP-6-50
GWP-6-50D	GWP-6-58

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that VOC LCS and MS/MSD recoveries were outside evaluation criteria. Samples were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, methylene chloride was detected in the trip blank. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
TB072709	VOCs	Methylene chloride	1.02	µg/L

Methylene chloride was non-detect in all samples associated with the trip blank; therefore, no qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD /RPD Criteria
534802-1-BKS	VOCs	Chloromethane	131	N/A	70-130
534802-1-BKS	VOCs	Dichlorodifluoromethane	196	N/A	70-130
534802-1-BKS	VOCs	Trichlorofluoromethane	138	N/A	67-125
534802-1-BKS	VOCs	Vinyl chloride	132	N/A	75-125

The compounds listed in the table above were reported as nondetect in samples associated with LCS recoveries above evaluation criteria, indicating a possible high bias, and did not require qualification.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

Yes, sample GWP-1-50 was spiked and analyzed for VOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/ RPD Criteria
GWP-1-50	VOCs	Acetone	45/46	0	60-140/21
GWP-1-50	VOCs	Chloromethane	129/136	6	70-130/20
GWP-1-50	VOCs	Dichlorodifluoromethane	202/206	2	70-130/23
GWP-1-50	VOCs	Trichlorofluoromethane	145/142	2	67-125/20
GWP-1-50	VOCs	Vinyl chloride	130/137	5	75-125/20

USEPA National Functional Guidelines for Superfund Organic Methods Data Review indicates that organic data should not be qualified based on MS/MSD data alone and the LCS recovery for acetone was within evaluation criteria. The LCS recoveries for chloromethane, dichlorodifluoromethane, trichlorofluoromethane and vinyl chloride were above evaluation criteria, indicating a possible high bias, and these compounds were nondetect in sample GWP-1-50; therefore, no qualification of data was required.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
GWP-6-50	GWP-6-50D

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 339233

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

13-AUG-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

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Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Houston - Dallas - San Antonio - Tampa - Miami - Midland - Corpus Christi - Atlanta - Latin America



13-AUG-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **339233**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 339233. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 339233 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 339233



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-1-50	W	Jul-27-09 11:50		339233-001
GWP-1-58	W	Jul-27-09 15:00		339233-002
TB072709	W	Jul-27-09 00:00		339233-003
GWP-2-50	W	Jul-28-09 10:58		339233-004
GWP-2-58	W	Jul-28-09 12:20		339233-005
GWP-3-50	W	Jul-28-09 14:55		339233-006
GWP-3-58	W	Jul-28-09 16:20		339233-007
GWP-4-50	W	Jul-29-09 10:40		339233-008
GWP-4-58	W	Jul-29-09 11:20		339233-009
GWP-6-50	W	Jul-29-09 15:00		339233-010
GWP-6-50D	W	Jul-29-09 16:00		339233-011
GWP-6-58	W	Jul-29-09 17:00		339233-012

CASE NARRATIVE



Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 339233

Report Date: 13-AUG-09
Date Received: 07/30/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-767501 VOAs by SW-846 8260B

Chloromethane, Dichlorodifluoromethane, Trichlorofluoromethane, Vinyl Chloride recovered above QC limits in the laboratory control sample.

Samples affected are: 339233-002, -009, -003, -001, -005.

Acetone recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Dichlorodifluoromethane, Trichlorofluoromethane, Vinyl Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Chloromethane recovered above QC limits in the Matrix Spike Duplicate.

Samples affected are: 339233-002, -009, -003, -001, -005.

The Laboratory Control Sample for Acetone is within laboratory Control Limits

Batch: LBA-768128 VOAs by SW-846 8260B

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Chloroethane, Ethylbenzene, Styrene, cis-1,2-Dichloroethene, n-Propylbenzene, o-Xylene, p-Cymene (p-Isopropyltoluene) recovered below QC limits in the Matrix Spike. 1,1-Dichloropropene, 1,2,4-Trimethylbenzene, 1,3-Dichloropropane, Acetone, Bromobenzene, Bromomethane, Carbon Disulfide, Chloromethane, Methylene Chloride, Tetrachloroethylene, Vinyl Chloride, m,p-Xylenes, trans-1,2-dichloroethene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 339233-012, -007, -006, -008, -010, -011, -004.

The Laboratory Control Sample for Bromomethane, Acetone, Methylene Chloride, 1,3-Dichlorobenzene, cis-1,2-Dichloroethene, Bromochloromethane, 1,3-Dichloropropane, Carbon Disulfide, Tetrachloroethylene, m,p-Xylenes, 2-Chlorotoluene, 1,4-Dichlorobenzene, Chloromethane, Bromobenzene, 1,2,4-Trimethylbenzene, Ethylbenzene, o-Xylene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, trans-1,2-dichloroethene, Styrene, n-Propylbenzene, 4-Chlorotoluene, p-Cymene (p-Isopropyltoluene), 1,2,3-Trichlorobenzene, Vinyl Chloride, Chloroethane, 1,1-Dichloropropene is within laboratory Control Limits

Batch: LBA-768350 BTEX by SW 8260B

Note: Samples 010 and 011 are reporting dilutions for Toluene only.



Certificate of Analysis Summary 339233

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084
Date Received in Lab: Thu Jul-30-09 08:45 am
Report Date: 13-AUG-09
Project Manager: Debbie Simmons

<i>Analysis Requested</i>		<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>	<i>339233-001</i>	<i>339233-002</i>	<i>339233-003</i>	<i>339233-004</i>	<i>339233-005</i>	<i>339233-006</i>	
		GWP-1-50	GWP-1-58	TB072709	GWP-2-58	GWP-3-50				WATER	WATER	WATER	WATER	WATER	WATER	
		Jul-27-09 11:50	Jul-27-09 15:00	Jul-27-09 00:00	Jul-28-09 10:58	Jul-28-09 14:55	Jul-31-09 11:30	Jul-31-09 11:44	Jul-31-09 11:38	Jul-28-09 10:58	Jul-28-09 12:20	Jul-28-09 12:20	Jul-31-09 11:48	Jul-31-09 11:48	Jul-28-09 14:55	
		Jul-31-09 11:30	Jul-31-09 14:56	Jul-31-09 13:36	Aug-08-09 13:24	Aug-08-09 19:49	Jul-31-09 11:49	Jul-31-09 14:56	Jul-31-09 13:36	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	RL
VOAs by SW-846 8260B		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
1,3-Dichlorobenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
1,4-Dichlorobenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
Dichlorodifluoromethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
1,1-Dichloroethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
1,2-Dichloroethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
1,1-Dichloroethene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
cis-1,2-Dichloroethene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
trans-1,2-dichloroethene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
1,2-Dichloropropane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
1,3-Dichloropropane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
2,2-Dichloropropane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
1,1-Dichloropropene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
cis-1,3-Dichloropropene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
trans-1,3-dichloropropene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
Ethylbenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
Hexachlorobutadiene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
isopropylbenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
Methylene Chloride		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
n-Propylbenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
Styrene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
1,1,1,2-Tetrachloroethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
1,1,2,2-Tetrachloroethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
Tetrachloroethylene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
Toluene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0
1,2,3-Trichlorobenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 50.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end user of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Carlos Castro
 Managing Director, Texas

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Jul-30-09 08:45 am

Report Date: 13-AUG-09

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>	339233-001	339233-002	339233-003	339233-004	339233-005	339233-006
				WATER	Jul-27-09 11:50	Jul-31-09 11:30	Jul-31-09 11:49	ug/L RL	GWP-1-50	GWP-1-58	TB072709	GWP-2-50	GWP-2-58	GWP-3-50
				WATER	Jul-27-09 15:00	Jul-31-09 11:44	Jul-31-09 14:56	ug/L RL						
				WATER	Jul-27-09 00:00	Jul-31-09 11:38	Jul-31-09 13:36	ug/L RL						
				WATER	Jul-28-09 10:58	Aug-08-09 13:24	Aug-08-09 19:26	ug/L RL						
				WATER	Jul-28-09 12:20	Jul-31-09 11:48	Jul-31-09 15:49	ug/L RL						
				WATER	Jul-28-09 14:55	Aug-08-09 13:26	Aug-08-09 19:49	ug/L RL						
VOAs by SW-846 8260B														
1,2,4-Trichlorobenzene									U	U	U	U	U	U
1,1,1-Trichloroethane									U	U	U	U	U	U
1,1,2-Trichloroethane									U	U	U	U	U	U
Trichloroethene									U	U	U	U	U	U
Trichlorofluoromethane									U	U	U	U	U	U
1,2,3-Trichloropropane									U	U	U	U	U	U
1,2,4-Trimethylbenzene									U	U	U	U	U	U
1,3,5-Trimethylbenzene									U	U	U	U	U	U
o-Xylene									U	U	U	U	U	U
m,p-Xylenes									U	U	U	U	U	U
Vinyl Acetate									U	U	U	U	U	U
Vinyl Chloride									U	U	U	U	U	U

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 339233

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084

Date Received in Lab: Thu Jul-30-09 08:45 am
Report Date: 13-AUG-09
Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	339233-007	339233-008	339233-009	339233-010	339233-011	339233-012
	GWP-3-58	GWP-4-50	GWP-4-58	GWP-6-50	GWP-6-50D	GWP-6-58	WATER	WATER	WATER	WATER	WATER
	Jul-28-09 16:20	Jul-29-09 10:40	Jul-29-09 11:20	Jul-29-09 15:00	Jul-29-09 16:00	Jul-29-09 17:00	ug/L	ug/L	ug/L	ug/L	ug/L
VOAs by SW-846 8260B	Aug-08-09 13:30	Aug-08-09 13:28	Jul-31-09 11:52	Aug-08-09 13:32	Aug-08-09 13:34	Aug-08-09 13:36	RL	RL	RL	RL	RL
	Aug-08-09 20:33	Aug-08-09 20:11	Jul-31-09 16:42	Aug-08-09 20:56	Aug-08-09 21:19	Aug-08-09 21:42	ug/L	ug/L	ug/L	ug/L	ug/L
	U 2000	U 1000	U 100	U 10000	U 10000	U 10000	U 1000	U 1000	U 10000	U 10000	U 10000
Acetone	U	U	U	U	U	U	U	U	U	U	U
Benzene	26.4 J	25.8 J	U	6340	6340	7420	500	500	500	500	500
Bromobenzene	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
Bromochloromethane	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
Bromodichloromethane	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
Bromoform	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
Bromomethane	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
2-Butanone	U 1000	U 500	U 50.0	U 5000	U 5000	U 5000	U 5000	U 5000	U 5000	U 5000	U 5000
MTBE	U 100	U 50.0	1.60 J	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
n-Butylbenzene	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
Sec-Butylbenzene	U 100	U 50.0	1.53 J	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
tert-Butylbenzene	U 100	U 50.0	1.13 J	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
Carbon Disulfide	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
Carbon Tetrachloride	U 1000	U 500	U 500	U 5000	U 5000	U 5000	U 5000	U 5000	U 5000	U 5000	U 5000
Chlorobenzene	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
Chloroethane	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
Chloroform	U 200	U 100	U 10.0	U 1000	U 1000	U 1000	U 1000	U 1000	U 1000	U 1000	U 1000
Chloromethane	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
2-Chlorotoluene	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
4-Chlorotoluene	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
p-Cymene (p-Isopropyltoluene)	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
Dibromochloromethane	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
1,2-Dibromo-3-Chloropropane	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
Dibromomethane	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500
1,2-Dichlorobenzene	U 100	U 50.0	U 5.00	U 500	U 500	U 500	U 500	U 500	U 500	U 500	U 500

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Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 339233

URS Corporation-St. Louis, St. Louis, MO

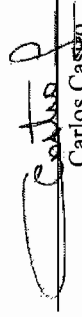


Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084
Date Received in Lab: Thu Jul-30-09 08:45 am
Report Date: 13-AUG-09
Project Manager: Debbie Simmons

<i>Analysis Requested</i>		<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>	<i>339233-007</i>	<i>339233-008</i>	<i>339233-009</i>	<i>339233-010</i>	<i>339233-011</i>	<i>339233-012</i>
		GWP-3-58	GWP-4-50	GWP-4-58	GWP-6-50	GWP-6-50D									
		WATER	WATER	WATER	WATER	WATER									
		Jul-28-09 16:20	Jul-29-09 10:40	Jul-29-09 11:20	Jul-29-09 15:00	Jul-29-09 16:00									
		Aug-08-09 13:30	Aug-08-09 13:28	Jul-31-09 11:52	Aug-08-09 13:32	Aug-08-09 13:34									
		Aug-08-09 20:33	Aug-08-09 20:11	Jul-31-09 16:42	Aug-08-09 20:56	Aug-08-09 21:19									
		ug/L	ug/L	ug/L	ug/L	ug/L									
		RL	RL	RL	RL	RL									
VOAs by SW-846 8260B															
1,3-Dichlorobenzene		U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Dichlorodifluoromethane		U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane		U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane		U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene		U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene		U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-dichloroethene		U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane		U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichloropropane		U	U	U	U	U	U	U	U	U	U	U	U	U	U
2,2-Dichloropropane		U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloropropene		U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene		U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-dichloropropene		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene		1880	1020	53.7	3200	500	500	500	500	500	500	500	500	500	500
Hexachlorobutadiene		U	U	U	U	U	U	U	U	U	U	U	U	U	U
isopropylbenzene		74.8 J	71.0	4.86 J	U	U	U	U	U	U	U	U	U	U	U
Methylene Chloride		U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-Propylbenzene		118	119	11.3	175 J	500	500	500	500	500	500	500	500	500	500
Styrene		U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1,2-Tetrachloroethane		U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethylene		U	U	U	U	U	U	U	U	U	U	U	U	U	U
Toluene		1540	16.9 J	1.17 J	24600 D	1250	1250	1250	1250	1250	1250	1250	1250	1250	10000
1,2,3-Trichlorobenzene		U	U	U	U	U	U	U	U	U	U	U	U	U	U

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 Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 339233

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
 Contact: Wendy Pennington
 Project Location: Roxana, IL 62084
 Date Received in Lab: Thu Jul-30-09 08:45 am
 Report Date: 13-AUG-09
 Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	339233-007	339233-008	339233-009	339233-010	339233-011	339233-012
VOAs by SW-846 8260B						GWP-3-58	GWP-4-50	GWP-4-58	GWP-6-50	GWP-6-50D	GWP-6-58
						WATER	WATER	WATER	WATER	WATER	WATER
						Jul-28-09 16:20	Jul-29-09 10:40	Jul-29-09 11:20	Jul-29-09 15:00	Jul-29-09 16:00	Jul-29-09 17:00
						Aug-08-09 13:30	Aug-08-09 13:28	Jul-31-09 11:52	Aug-08-09 13:32	Aug-08-09 13:34	Aug-08-09 13:36
						Aug-08-09 20:33	Aug-08-09 20:11	Jul-31-09 16:42	Aug-08-09 20:56	Aug-08-09 21:19	Aug-08-09 21:42
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
						RL	RL	RL	RL	RL	RL
1,2,4-Trichlorobenzene						U 100	U 50.0	U 5.00	U 500	U 500	U 500
1,1,1-Trichloroethane						U 100	U 50.0	U 5.00	U 500	U 500	U 500
1,1,2-Trichloroethane						U 100	U 50.0	U 5.00	U 500	U 500	U 500
Trichloroethene						U 100	U 50.0	U 5.00	U 500	U 500	U 500
Trichlorofluoromethane						U 100	U 50.0	U 5.00	U 500	U 500	U 500
1,2,3-Trichloropropane						U 100	U 50.0	U 5.00	U 500	U 500	U 500
1,2,4-Trimethylbenzene						611 100	703 50.0	54.4 5.00	1130 500	956 500	557 500
1,3,5-Trimethylbenzene						152 100	158 50.0	12.9 5.00	258 J 500	214 J 500	137 J 500
o-Xylene						1550 100	351 50.0	41.3 5.00	3660 500	3370 500	1400 500
m,p-Xylenes						3990 200	2330 100	126 10.0	7230 1000	6930 1000	4670 1000
Vinyl Acetate						U 1000	U 500	U 50.0	U 5000	U 5000	U 5000
Vinyl Chloride						U 40.0	U 20.0	U 2.00	U 200	U 200	U 200

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Carlos Castro
 Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : VOAs by SW-846 8260B

Client : URS Corporation-St. Louis

Work Order #: 339233

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-3-50	Jul. 28, 2009	Jul. 30, 2009				Aug.8, 2009	14	11	P
GWP-4-50	Jul. 29, 2009	Jul. 30, 2009				Aug.8, 2009	14	10	P
GWP-4-58	Jul. 29, 2009	Jul. 30, 2009				Jul.31, 2009	14	2	P
GWP-1-50	Jul. 27, 2009	Jul. 30, 2009				Jul.31, 2009	14	4	P
GWP-2-58	Jul. 28, 2009	Jul. 30, 2009				Jul.31, 2009	14	3	P
GWP-6-50D	Jul. 29, 2009	Jul. 30, 2009				Aug.8, 2009	14	10	P
GWP-2-50	Jul. 28, 2009	Jul. 30, 2009				Aug.8, 2009	14	11	P
TB072709	Jul. 27, 2009	Jul. 30, 2009				Jul.31, 2009	14	4	P
GWP-3-58	Jul. 28, 2009	Jul. 30, 2009				Aug.8, 2009	14	11	P
GWP-1-58	Jul. 27, 2009	Jul. 30, 2009				Jul.31, 2009	14	4	P
GWP-6-58	Jul. 29, 2009	Jul. 30, 2009				Aug.8, 2009	14	10	P
GWP-6-50	Jul. 29, 2009	Jul. 30, 2009				Aug.8, 2009	14	10	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339233,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 765960

Sample: ICB-BLK / ICB

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/16/09 21:20

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0484	0.0500	97	86-115	
Dibromofluoromethane	0.0461	0.0500	92	86-118	
1,2-Dichloroethane-D4	0.0538	0.0500	108	80-120	
Toluene-D8	0.0493	0.0500	99	88-110	

Lab Batch #: 767501

Sample: 534802-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 10:21

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0479	0.0500	96	70-130	
Dibromofluoromethane	0.0534	0.0500	107	70-130	
1,2-Dichloroethane-D4	0.0495	0.0500	99	70-130	
Toluene-D8	0.0502	0.0500	100	88-110	

Lab Batch #: 767501

Sample: 534802-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 11:18

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0504	0.0500	101	70-130	
Dibromofluoromethane	0.0504	0.0500	101	70-130	
1,2-Dichloroethane-D4	0.0498	0.0500	100	70-130	
Toluene-D8	0.0486	0.0500	97	88-110	

Lab Batch #: 767501

Sample: 339233-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 11:49

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0512	0.0500	102	70-130	
Dibromofluoromethane	0.0491	0.0500	98	70-130	
1,2-Dichloroethane-D4	0.0470	0.0500	94	70-130	
Toluene-D8	0.0498	0.0500	100	88-110	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339233,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767501

Sample: 339233-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 12:16

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0491	0.0500	98	70-130	
Dibromofluoromethane	0.0500	0.0500	100	70-130	
1,2-Dichloroethane-D4	0.0485	0.0500	97	70-130	
Toluene-D8	0.0506	0.0500	101	88-110	

Lab Batch #: 767501

Sample: 339233-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 12:43

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0483	0.0500	97	70-130	
Dibromofluoromethane	0.0516	0.0500	103	70-130	
1,2-Dichloroethane-D4	0.0502	0.0500	100	70-130	
Toluene-D8	0.0504	0.0500	101	88-110	

Lab Batch #: 767501

Sample: 339233-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 13:36

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0463	0.0500	93	70-130	
Dibromofluoromethane	0.0539	0.0500	108	70-130	
1,2-Dichloroethane-D4	0.0509	0.0500	102	70-130	
Toluene-D8	0.0464	0.0500	93	88-110	

Lab Batch #: 767501

Sample: 339233-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 14:56

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0469	0.0500	94	70-130	
Dibromofluoromethane	0.0535	0.0500	107	70-130	
1,2-Dichloroethane-D4	0.0509	0.0500	102	70-130	
Toluene-D8	0.0481	0.0500	96	88-110	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339233,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767501

Sample: 339233-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 15:49

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0472	0.0500	94	70-130	
Dibromofluoromethane	0.0528	0.0500	106	70-130	
1,2-Dichloroethane-D4	0.0493	0.0500	99	70-130	
Toluene-D8	0.0486	0.0500	97	88-110	

Lab Batch #: 767501

Sample: 339233-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/31/09 16:42

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0474	0.0500	95	70-130	
Dibromofluoromethane	0.0493	0.0500	99	70-130	
1,2-Dichloroethane-D4	0.0483	0.0500	97	70-130	
Toluene-D8	0.0480	0.0500	96	88-110	

Lab Batch #: 768128

Sample: 535140-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 13:39

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0502	0.0500	100	70-130	
Dibromofluoromethane	0.0537	0.0500	107	70-130	
1,2-Dichloroethane-D4	0.0529	0.0500	106	70-130	
Toluene-D8	0.0459	0.0500	92	70-130	

Lab Batch #: 768128

Sample: 535140-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 14:30

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0489	0.0500	98	70-130	
Dibromofluoromethane	0.0564	0.0500	113	70-130	
1,2-Dichloroethane-D4	0.0513	0.0500	103	70-130	
Toluene-D8	0.0480	0.0500	96	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339233,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768128

Sample: 339883-007 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 14:53

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0483	0.0500	97	70-130	
Dibromofluoromethane	0.0546	0.0500	109	70-130	
1,2-Dichloroethane-D4	0.0501	0.0500	100	70-130	
Toluene-D8	0.0479	0.0500	96	70-130	

Lab Batch #: 768128

Sample: 339883-007 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 15:16

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0486	0.0500	97	70-130	
Dibromofluoromethane	0.0562	0.0500	112	70-130	
1,2-Dichloroethane-D4	0.0561	0.0500	112	70-130	
Toluene-D8	0.0495	0.0500	99	70-130	

Lab Batch #: 768128

Sample: 339233-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 19:26

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0483	0.0500	97	70-130	
Dibromofluoromethane	0.0540	0.0500	108	70-130	
1,2-Dichloroethane-D4	0.0511	0.0500	102	70-130	
Toluene-D8	0.0458	0.0500	92	70-130	

Lab Batch #: 768128

Sample: 339233-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 19:49

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0504	0.0500	101	70-130	
Dibromofluoromethane	0.0542	0.0500	108	70-130	
1,2-Dichloroethane-D4	0.0537	0.0500	107	70-130	
Toluene-D8	0.0458	0.0500	92	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339233,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768128

Sample: 339233-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 20:11

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0472	0.0500	94	70-130	
Dibromofluoromethane	0.0541	0.0500	108	70-130	
1,2-Dichloroethane-D4	0.0525	0.0500	105	70-130	
Toluene-D8	0.0476	0.0500	95	70-130	

Lab Batch #: 768128

Sample: 339233-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 20:33

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0487	0.0500	97	70-130	
Dibromofluoromethane	0.0537	0.0500	107	70-130	
1,2-Dichloroethane-D4	0.0505	0.0500	101	70-130	
Toluene-D8	0.0486	0.0500	97	70-130	

Lab Batch #: 768128

Sample: 339233-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 20:56

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0494	0.0500	99	70-130	
Dibromofluoromethane	0.0526	0.0500	105	70-130	
1,2-Dichloroethane-D4	0.0520	0.0500	104	70-130	
Toluene-D8	0.0459	0.0500	92	70-130	

Lab Batch #: 768128

Sample: 339233-011 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 21:19

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0475	0.0500	95	70-130	
Dibromofluoromethane	0.0548	0.0500	110	70-130	
1,2-Dichloroethane-D4	0.0525	0.0500	105	70-130	
Toluene-D8	0.0470	0.0500	94	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339233,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768128

Sample: 339233-012 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 21:42

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0478	0.0500	96	70-130	
Dibromofluoromethane	0.0545	0.0500	109	70-130	
1,2-Dichloroethane-D4	0.0532	0.0500	106	70-130	
Toluene-D8	0.0473	0.0500	95	70-130	

Lab Batch #: 768350

Sample: 535279-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 12:35

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0498	0.0500	100	74-124	
Dibromofluoromethane	0.0478	0.0500	96	75-131	
1,2-Dichloroethane-D4	0.0498	0.0500	100	63-144	
Toluene-D8	0.0488	0.0500	98	80-117	

Lab Batch #: 768350

Sample: 535279-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 14:35

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0491	0.0500	98	74-124	
Dibromofluoromethane	0.0445	0.0500	89	75-131	
1,2-Dichloroethane-D4	0.0452	0.0500	90	63-144	
Toluene-D8	0.0481	0.0500	96	80-117	

Lab Batch #: 768350

Sample: 339233-010 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 15:07

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0474	0.0500	95	74-124	
Dibromofluoromethane	0.0473	0.0500	95	75-131	
1,2-Dichloroethane-D4	0.0485	0.0500	97	63-144	
Toluene-D8	0.0485	0.0500	97	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339233,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768350

Sample: 339233-011 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 15:29

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0499	0.0500	100	74-124	
Dibromofluoromethane	0.0473	0.0500	95	75-131	
1,2-Dichloroethane-D4	0.0501	0.0500	100	63-144	
Toluene-D8	0.0485	0.0500	97	80-117	

Lab Batch #: 768350

Sample: 340223-002 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 19:15

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0506	0.0500	101	74-124	
Dibromofluoromethane	0.0439	0.0500	88	75-131	
1,2-Dichloroethane-D4	0.0457	0.0500	91	63-144	
Toluene-D8	0.0507	0.0500	101	80-117	

Lab Batch #: 768350

Sample: 340223-002 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 19:37

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0509	0.0500	102	74-124	
Dibromofluoromethane	0.0468	0.0500	94	75-131	
1,2-Dichloroethane-D4	0.0470	0.0500	94	63-144	
Toluene-D8	0.0496	0.0500	99	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 339233

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767501

Sample: 534802-1-BKS

Matrix: Water

Date Analyzed: 07/31/2009

Date Prepared: 07/31/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	369	74	60-140	
Benzene	<1.00	50.0	46.1	92	66-142	
Bromobenzene	<1.00	50.0	49.3	99	75-125	
Bromochloromethane	<1.00	50.0	56.9	114	73-125	
Bromodichloromethane	<1.00	50.0	56.4	113	75-125	
Bromoform	<1.00	50.0	53.8	108	75-125	
Bromomethane	<1.00	50.0	57.7	115	70-130	
2-Butanone	<10.0	500	393	79	60-140	
MTBE	<1.00	50.0	64.9	130	65-135	
n-Butylbenzene	<1.00	50.0	54.7	109	75-125	
Sec-Butylbenzene	<1.00	50.0	51.5	103	75-125	
tert-Butylbenzene	<1.00	50.0	53.9	108	75-125	
Carbon Disulfide	<10.0	500	561	112	60-140	
Carbon Tetrachloride	<1.00	50.0	53.9	108	62-125	
Chlorobenzene	<1.00	50.0	48.1	96	60-133	
Chloroethane	<2.00	50.0	55.1	110	70-130	
Chloroform	<1.00	50.0	54.3	109	74-125	
Chloromethane	<2.00	50.0	65.5	131	70-130	H
2-Chlorotoluene	<1.00	50.0	48.1	96	73-125	
4-Chlorotoluene	<1.00	50.0	49.2	98	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	55.5	111	75-125	
Dibromochloromethane	<1.00	50.0	48.0	96	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	46.9	94	59-125	
Dibromomethane	<1.00	50.0	50.7	101	69-127	
1,2-Dichlorobenzene	<1.00	50.0	49.1	98	75-125	
1,3-Dichlorobenzene	<1.00	50.0	52.3	105	75-125	
1,4-Dichlorobenzene	<1.00	50.0	44.8	90	75-125	
Dichlorodifluoromethane	<1.00	50.0	98.2	196	70-130	H
1,1-Dichloroethane	<1.00	50.0	53.0	106	72-125	
1,2-Dichloroethane	<1.00	50.0	51.6	103	68-127	
1,1-Dichloroethene	<1.00	50.0	54.5	109	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	54.8	110	75-125	
trans-1,2-dichloroethene	<1.00	50.0	50.6	101	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 339233

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767501

Sample: 534802-1-BKS

Matrix: Water

Date Analyzed: 07/31/2009

Date Prepared: 07/31/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	51.0	102	74-125	
1,3-Dichloropropane	<1.00	50.0	50.7	101	75-125	
2,2-Dichloropropane	<1.00	50.0	56.8	114	75-125	
1,1-Dichloropropene	<1.00	50.0	50.4	101	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	51.4	103	74-125	
trans-1,3-dichloropropene	<1.00	50.0	54.0	108	66-125	
Ethylbenzene	<1.00	50.0	50.9	102	75-125	
Hexachlorobutadiene	<1.00	50.0	49.5	99	75-125	
isopropylbenzene	<1.00	50.0	52.3	105	75-125	
Methylene Chloride	<1.00	50.0	51.6	103	75-125	
n-Propylbenzene	<1.00	50.0	51.4	103	75-125	
Styrene	<1.00	50.0	56.4	113	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	53.9	108	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	45.6	91	74-125	
Tetrachloroethylene	<1.00	50.0	52.4	105	71-125	
Toluene	<1.00	50.0	45.7	91	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	53.0	106	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	53.8	108	75-135	
1,1,1-Trichloroethane	<1.00	50.0	56.0	112	75-125	
1,1,2-Trichloroethane	<1.00	50.0	52.0	104	75-127	
Trichloroethene	<1.00	50.0	49.4	99	62-137	
Trichlorofluoromethane	<1.00	50.0	68.9	138	67-125	H
1,2,3-Trichloropropane	<1.00	50.0	49.1	98	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	52.7	105	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	51.2	102	70-125	
o-Xylene	<1.00	50.0	48.8	98	75-125	
m,p-Xylenes	<2.00	100	103	103	75-125	
Vinyl Acetate	<10.0	500	337	67	60-140	
Vinyl Chloride	<0.400	50.0	66.0	132	75-125	H

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 339233

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768128

Sample: 535140-1-BKS

Matrix: Water

Date Analyzed: 08/08/2009

Date Prepared: 08/08/2009

Analyst: KHM

Reporting Units: ug/L

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	572	114	60-140	
Benzene	<1.00	50.0	47.6	95	66-142	
Bromobenzene	<1.00	50.0	40.8	82	75-125	
Bromochloromethane	<1.00	50.0	51.0	102	73-125	
Bromodichloromethane	<1.00	50.0	50.2	100	75-125	
Bromoform	<1.00	50.0	47.0	94	75-125	
Bromomethane	<1.00	50.0	55.3	111	70-130	
2-Butanone	<10.0	500	560	112	60-140	
MTBE	<1.00	50.0	54.6	109	65-135	
n-Butylbenzene	<1.00	50.0	46.9	94	75-125	
Sec-Butylbenzene	<1.00	50.0	45.8	92	75-125	
tert-Butylbenzene	<1.00	50.0	45.0	90	75-125	
Carbon Disulfide	<10.0	500	476	95	60-140	
Carbon Tetrachloride	<1.00	50.0	54.1	108	62-125	
Chlorobenzene	<1.00	50.0	43.8	88	60-133	
Chloroethane	<2.00	50.0	58.0	116	70-130	
Chloroform	<1.00	50.0	53.6	107	74-125	
Chloromethane	<2.00	50.0	47.4	95	70-130	
2-Chlorotoluene	<1.00	50.0	42.2	84	73-125	
4-Chlorotoluene	<1.00	50.0	42.5	85	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	45.3	91	75-125	
Dibromochloromethane	<1.00	50.0	46.1	92	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	46.2	92	59-125	
Dibromomethane	<1.00	50.0	47.4	95	69-127	
1,2-Dichlorobenzene	<1.00	50.0	43.5	87	75-125	
1,3-Dichlorobenzene	<1.00	50.0	43.9	88	75-125	
1,4-Dichlorobenzene	<1.00	50.0	42.1	84	75-125	
Dichlorodifluoromethane	<1.00	50.0	50.5	101	70-130	
1,1-Dichloroethane	<1.00	50.0	54.3	109	72-125	
1,2-Dichloroethane	<1.00	50.0	49.5	99	68-127	
1,1-Dichloroethene	<1.00	50.0	52.1	104	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	50.5	101	75-125	
trans-1,2-dichloroethene	<1.00	50.0	52.8	106	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 339233

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768128

Sample: 535140-1-BKS

Matrix: Water

Date Analyzed: 08/08/2009

Date Prepared: 08/08/2009

Analyst: KHM

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	48.8	98	74-125	
1,3-Dichloropropane	<1.00	50.0	44.2	88	75-125	
2,2-Dichloropropane	<1.00	50.0	60.0	120	75-125	
1,1-Dichloropropene	<1.00	50.0	51.3	103	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	44.7	89	74-125	
trans-1,3-dichloropropene	<1.00	50.0	42.0	84	66-125	
Ethylbenzene	<1.00	50.0	47.0	94	75-125	
Hexachlorobutadiene	<1.00	50.0	44.9	90	75-125	
isopropylbenzene	<1.00	50.0	49.2	98	75-125	
Methylene Chloride	<1.00	50.0	49.4	99	75-125	
n-Propylbenzene	<1.00	50.0	44.4	89	75-125	
Styrene	<1.00	50.0	48.4	97	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	50.0	100	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	50.7	101	74-125	
Tetrachloroethylene	<1.00	50.0	45.2	90	71-125	
Toluene	<1.00	50.0	43.9	88	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	44.6	89	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	42.9	86	75-135	
1,1,1-Trichloroethane	<1.00	50.0	54.1	108	75-125	
1,1,2-Trichloroethane	<1.00	50.0	43.6	87	75-127	
Trichloroethene	<1.00	50.0	48.4	97	62-137	
Trichlorofluoromethane	<1.00	50.0	57.4	115	67-125	
1,2,3-Trichloropropane	<1.00	50.0	47.9	96	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	44.4	89	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	45.0	90	70-125	
o-Xylene	<1.00	50.0	47.3	95	75-125	
m,p-Xylenes	<2.00	100	91.7	92	75-125	
Vinyl Acetate	<10.0	500	564	113	60-140	
Vinyl Chloride	<0.400	50.0	51.4	103	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 339233

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768350

Sample: 535279-1-BKS

Matrix: Water

Date Analyzed: 08/10/2009

Date Prepared: 08/10/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Toluene	<1.000	50.00	48.30	97	59-139	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 339233

Lab Batch ID: 767501

Date Analyzed: 07/31/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC-Sample ID: 339233-001 S

Date Prepared: 07/31/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
VOAs by SW-846 8260B											
Acetone	<100	500	227	45	500	228	46	0	60-140	21	X
Benzene	<5.00	50.0	47.9	96	50.0	46.3	93	3	66-142	21	
Bromobenzene	<5.00	50.0	50.7	101	50.0	48.2	96	5	75-125	20	
Bromochloromethane	<5.00	50.0	54.7	109	50.0	54.8	110	0	73-125	20	
Bromodichloromethane	<5.00	50.0	58.4	117	50.0	55.9	112	4	75-125	20	
Bromoform	<5.00	50.0	53.1	106	50.0	54.4	109	2	75-125	20	
Bromomethane	<5.00	50.0	56.4	113	50.0	56.9	114	1	70-130	20	
2-Butanone	<50.0	500	339	68	500	348	70	3	60-140	20	
MTBE	<5.00	50.0	60.7	121	50.0	63.9	128	5	65-135	20	
n-Butylbenzene	<5.00	50.0	58.5	117	50.0	55.9	112	5	75-125	20	
Sec-Butylbenzene	<5.00	50.0	54.6	109	50.0	51.9	104	5	75-125	20	
tert-Butylbenzene	<5.00	50.0	56.3	113	50.0	54.0	108	4	75-125	20	
Carbon Disulfide	<50.0	500	563	113	500	538	108	5	60-140	20	
Carbon Tetrachloride	<5.00	50.0	57.2	114	50.0	53.7	107	6	62-125	20	
Chlorobenzene	<5.00	50.0	49.5	99	50.0	48.2	96	3	60-133	21	
Chloroethane	<10.0	50.0	55.8	112	50.0	58.3	117	4	70-130	20	
Chloroform	<5.00	50.0	54.0	108	50.0	53.0	106	2	74-125	20	
Chloromethane	<10.0	50.0	64.3	129	50.0	68.0	136	6	70-130	20	X
2-Chlorotoluene	<5.00	50.0	50.2	100	50.0	48.0	96	4	73-125	20	
4-Chlorotoluene	<5.00	50.0	52.3	105	50.0	49.5	99	6	74-125	20	
p-Cymene (p-Isopropyltoluene)	<5.00	50.0	58.4	117	50.0	55.4	111	5	75-125	20	
Dibromochloromethane	<5.00	50.0	48.8	98	50.0	47.6	95	2	73-125	20	
1,2-Dibromo-3-Chloropropane	<5.00	50.0	47.4	95	50.0	46.6	93	2	59-125	28	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference RPD = 200*(C-F)/(C+F)
 ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQ1 = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339233

Lab Batch ID: 767501

Date Analyzed: 07/31/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 339233-001 S

Date Prepared: 07/31/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dibromomethane	<5.00	50.0	50.5	101	50.0	50.6	101	0	69-127	23	
1,2-Dichlorobenzene	<5.00	50.0	49.1	98	50.0	47.1	94	4	75-125	20	
1,3-Dichlorobenzene	<5.00	50.0	53.1	106	50.0	51.2	102	4	75-125	20	
1,4-Dichlorobenzene	<5.00	50.0	46.7	93	50.0	44.6	89	5	75-125	20	
Dichlorodifluoromethane	<5.00	50.0	101	202	50.0	103	206	2	70-130	23	X
1,1-Dichloroethane	<5.00	50.0	52.8	106	50.0	52.0	104	2	72-125	20	
1,2-Dichloroethane	<5.00	50.0	51.7	103	50.0	51.4	103	1	68-127	20	
1,1-Dichloroethene	<5.00	50.0	55.5	111	50.0	53.3	107	4	59-172	22	
cis-1,2-Dichloroethene	<5.00	50.0	54.4	109	50.0	53.9	108	1	75-125	20	
trans-1,2-dichloroethene	<5.00	50.0	49.8	100	50.0	49.2	98	1	75-125	20	
1,2-Dichloropropane	<5.00	50.0	51.7	103	50.0	50.7	101	2	74-125	20	
1,3-Dichloropropane	<5.00	50.0	51.3	103	50.0	50.3	101	2	75-125	20	
2,2-Dichloropropane	<5.00	50.0	56.7	113	50.0	54.8	110	3	75-125	20	
1,1-Dichloropropene	<5.00	50.0	52.6	105	50.0	50.1	100	5	75-125	20	
cis-1,3-Dichloropropene	<5.00	50.0	52.6	105	50.0	49.3	99	6	74-125	20	
trans-1,3-dichloropropene	<5.00	50.0	57.2	114	50.0	53.8	108	6	66-125	20	
Ethylbenzene	<5.00	50.0	53.4	107	50.0	51.2	102	4	75-125	20	
Hexachlorobutadiene	<5.00	50.0	52.3	105	50.0	48.7	97	7	75-125	20	
isopropylbenzene	<5.00	50.0	55.3	111	50.0	52.6	105	5	75-125	20	
Methylene Chloride	<5.00	50.0	49.4	99	50.0	49.9	100	1	75-125	35	
n-Propylbenzene	<5.00	50.0	55.1	110	50.0	52.1	104	6	75-125	20	
Styrene	<5.00	50.0	57.6	115	50.0	56.6	113	2	75-125	51	
1,1,1,2-Tetrachloroethane	<5.00	50.0	53.4	107	50.0	53.2	106	0	72-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339233

Lab Batch ID: 767501

Date Analyzed: 07/31/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 339233-001 S

Date Prepared: 07/31/2009

Batch #: 1

Matrix: Water

Analyst: ZHO

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,1,2,2-Tetrachloroethane	<5.00	50.0	47.6	95	50.0	46.4	93	3	74-125	31	
Tetrachloroethylene	<5.00	50.0	54.4	109	50.0	51.2	102	6	71-125	20	
Toluene	<5.00	50.0	48.3	97	50.0	46.5	93	4	59-139	21	
1,2,3-Trichlorobenzene	<5.00	50.0	52.5	105	50.0	51.4	103	2	75-137	20	
1,2,4-Trichlorobenzene	<5.00	50.0	52.9	106	50.0	51.9	104	2	75-135	20	
1,1,1-Trichloroethane	<5.00	50.0	58.4	117	50.0	55.4	111	5	75-125	20	
1,1,2-Trichloroethane	<5.00	50.0	52.6	105	50.0	50.7	101	4	75-127	20	
Trichloroethene	<5.00	50.0	50.6	101	50.0	49.9	100	1	62-137	24	
Trichlorofluoromethane	<5.00	50.0	72.4	145	50.0	71.2	142	2	67-125	20	X
1,2,3-Trichloropropane	<5.00	50.0	51.0	102	50.0	49.5	99	3	75-125	20	
1,2,4-Trimethylbenzene	<5.00	50.0	54.8	110	50.0	52.5	105	4	75-125	20	
1,3,5-Trimethylbenzene	<5.00	50.0	53.2	106	50.0	51.6	103	3	70-125	20	
o-Xylene	<5.00	50.0	50.6	101	50.0	50.2	100	1	75-125	20	
m,p-Xylenes	<10.0	100	108	108	100	104	104	4	75-125	20	
Vinyl Acetate	<50.0	500	363	73	500	363	73	0	60-140	20	
Vinyl Chloride	<2.00	50.0	65.0	130	50.0	68.4	137	5	75-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339233

Lab Batch ID: 768128

Date Analyzed: 08/08/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC-Sample ID: 339883-007 S Batch #: 1 Matrix: Water

Date Prepared: 08/08/2009 Analyst: KHM

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acetone	45.8	50.0	247	40	500	256	42	4	60-140	21	X
Benzene	22.1	50.0	55.4	67	50.0	58.7	73	6	66-142	21	
Bromobenzene	<5.00	50.0	33.2	66	50.0	35.2	70	6	75-125	20	X
Bromochloromethane	<5.00	50.0	35.4	71	50.0	39.1	78	10	73-125	20	X
Bromodichloromethane	<5.00	50.0	42.3	85	50.0	44.6	89	5	75-125	20	
Bromoform	<5.00	50.0	40.1	80	50.0	44.4	89	10	75-125	20	
Bromomethane	<5.00	50.0	25.4	51	50.0	28.2	56	10	70-130	20	X
2-Butanone	13.1	500	328	63	500	326	63	1	60-140	20	
MTBE	<5.00	50.0	44.7	89	50.0	46.6	93	4	65-135	20	
n-Butylbenzene	<5.00	50.0	38.3	77	50.0	40.8	82	6	75-125	20	
Sec-Butylbenzene	<5.00	50.0	38.8	78	50.0	42.2	84	8	75-125	20	
tert-Butylbenzene	<5.00	50.0	39.1	78	50.0	42.1	84	7	75-125	20	
Carbon Disulfide	<50.0	500	147	29	500	164	33	11	60-140	20	X
Carbon Tetrachloride	<5.00	50.0	39.2	78	50.0	45.6	91	15	62-125	20	
Chlorobenzene	<5.00	50.0	34.7	69	50.0	37.5	75	8	60-133	21	
Chloroethane	<10.0	50.0	33.3	67	50.0	36.1	72	8	70-130	20	X
Chloroform	<5.00	50.0	43.0	86	50.0	46.3	93	7	74-125	20	
Chloromethane	<10.0	50.0	20.6	41	50.0	24.6	49	18	70-130	20	X
2-Chlorotoluene	<5.00	50.0	35.5	71	50.0	37.0	74	4	73-125	20	X
4-Chlorotoluene	<5.00	50.0	35.3	71	50.0	37.1	74	5	74-125	20	X
p-Cymene (p-Isopropyltoluene)	<5.00	50.0	37.0	74	50.0	40.3	81	9	75-125	20	X
Dibromochloromethane	<5.00	50.0	39.7	79	50.0	41.5	83	4	73-125	20	
1,2-Dibromo-3-Chloropropane	<5.00	50.0	43.0	86	50.0	47.6	95	10	59-125	28	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339233

Lab Batch ID: 768128

Date Analyzed: 08/08/2009

Reporting Units: ug/L

QC- Sample ID: 339883-007 S

Date Prepared: 08/08/2009

Batch #: 1

Analyst: KHM

Project ID: Route 111 & Rand Ave Vicinity/21561979

Matrix: Water

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
VOAs by SW-846 8260B											
Dibromomethane	<5.00	50.0	36.5	73	50.0	37.9	76	4	69-127	23	
1,2-Dichlorobenzene	<5.00	50.0	35.8	72	50.0	39.4	79	10	75-125	20	X
1,3-Dichlorobenzene	<5.00	50.0	35.8	72	50.0	37.5	75	5	75-125	20	X
1,4-Dichlorobenzene	<5.00	50.0	34.6	69	50.0	37.3	75	8	75-125	20	X
Dichlorodifluoromethane	<5.00	50.0	37.4	75	50.0	39.3	79	5	70-130	23	
1,1-Dichloroethane	<5.00	50.0	40.8	82	50.0	44.6	89	9	72-125	20	
1,2-Dichloroethane	<5.00	50.0	37.9	76	50.0	40.0	80	5	68-127	20	
1,1-Dichloroethene	<5.00	50.0	32.5	65	50.0	37.7	75	15	59-172	22	
cis-1,2-Dichloroethene	<5.00	50.0	37.1	74	50.0	41.3	83	11	75-125	20	X
trans-1,2-dichloroethene	<5.00	50.0	30.6	61	50.0	33.9	68	10	75-125	20	X
1,2-Dichloropropane	<5.00	50.0	38.7	77	50.0	40.9	82	6	74-125	20	
1,3-Dichloropropane	<5.00	50.0	35.4	71	50.0	37.1	74	5	75-125	20	X
2,2-Dichloropropane	<5.00	50.0	48.7	97	50.0	54.8	110	12	75-125	20	
1,1-Dichloropropene	<5.00	50.0	32.5	65	50.0	36.0	72	10	75-125	20	X
cis-1,3-Dichloropropene	<5.00	50.0	37.5	75	50.0	37.6	75	0	74-125	20	
trans-1,3-dichloropropene	<5.00	50.0	34.7	69	50.0	35.5	71	2	66-125	20	
Ethylbenzene	<5.00	50.0	35.7	71	50.0	39.2	78	9	75-125	20	X
Hexachlorobutadiene	<5.00	50.0	37.4	75	50.0	41.4	83	10	75-125	20	
isopropylbenzene	<5.00	50.0	40.3	81	50.0	44.4	89	10	75-125	20	
Methylene Chloride	<5.00	50.0	34.6	69	50.0	37.1	74	7	75-125	35	X
n-Propylbenzene	<5.00	50.0	35.2	70	50.0	39.6	79	12	75-125	20	X
Styrene	<5.00	50.0	37.2	74	50.0	38.7	77	4	75-125	51	X
1,1,1,2-Tetrachloroethane	<5.00	50.0	42.8	86	50.0	47.2	94	10	72-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339233

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch ID: 768128

Batch #: 1 Matrix: Water

Date Analyzed: 08/08/2009

QC- Sample ID: 339883-007 S

Date Prepared: 08/08/2009 Analyst: KHM

Reporting Units: ug/L

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<5.00	50.0	48.7	97	50.0	51.1	102	5	74-125	31	
Tetrachloroethylene	<5.00	50.0	29.4	59	50.0	31.9	64	8	71-125	20	X
Toluene	<5.00	50.0	31.1	62	50.0	35.4	71	13	59-139	21	
1,2,3-Trichlorobenzene	<5.00	50.0	36.3	73	50.0	40.3	81	10	75-137	20	X
1,2,4-Trichlorobenzene	<5.00	50.0	34.6	69	50.0	37.3	75	8	75-135	20	X
1,1,1-Trichloroethane	<5.00	50.0	43.5	87	50.0	49.6	99	13	75-125	20	
1,1,2-Trichloroethane	<5.00	50.0	38.1	76	50.0	39.3	79	3	75-127	20	
Trichloroethene	<5.00	50.0	33.9	68	50.0	35.2	70	4	62-137	24	
Trichlorofluoromethane	<5.00	50.0	36.2	72	50.0	42.3	85	16	67-125	20	
1,2,3-Trichloropropane	<5.00	50.0	43.9	88	50.0	46.7	93	6	75-125	20	
1,2,4-Trimethylbenzene	<5.00	50.0	34.3	69	50.0	36.9	74	7	75-125	20	X
1,3,5-Trimethylbenzene	<5.00	50.0	35.2	70	50.0	37.7	75	7	70-125	20	
o-Xylene	<5.00	50.0	35.5	71	50.0	39.8	80	11	75-125	20	X
m,p-Xylenes	<10.0	100	69.7	70	100	73.2	73	5	75-125	20	X
Vinyl Acetate	<50.0	500	451	90	500	460	92	2	60-140	20	
Vinyl Chloride	<2.00	50.0	27.8	56	50.0	31.2	62	12	75-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339233

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch ID: 768350

QC- Sample ID: 340223-002 S Batch #: 1 Matrix: Water

Date Analyzed: 08/10/2009

Date Prepared: 08/10/2009 Analyst: ZHO

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOAs by SW-846 8260B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	<1.00	50.0	40.2	80	50.0	44.5	89	10	59-139	21	
Toluene											

Matrix Spike Percent Recovery $[D] = 100 \cdot (C-A) / B$
Relative Percent Difference $RPD = 200 \cdot |(C-F) / (C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \cdot (F-A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Shell Oil Products Chain Of Custody Record



LAB (LOCATION)
4143 Greenbrier Dr., Stafford, TX 77477
XENCO (PHONE) 281-260-4200 FAX: 281-260-4290

CALSCIENCE ()
 TEST AMERICA ()
 SPL ()
 OTHER ()

Please Check Appropriate Box:

ENV. SERVICES
 MOTIVA RETAIL
 CONSULTANT
 SHELL PIPELINE
 SHELL RETAIL
 LUBES

Print Bill To Contact Name: KEVIN DYER
 PO # _____
 INCIDENT # (ENV. SERVICES): 9 7 2 1 6 6 4 0
 DATE: 7/29/19
 PAGE: 1 of 2

SOPS SITE ADDRESS (Street, City and State): 900 S. CENTRAL AVENUE, ROXANA, ILLINOIS 62084
 CONSULTANT PROJECT NAME / NO.: WENDY PENNINGTON
 ROUTE: 111 & Rand Ave Vicinity / 21581979
 SAMPLER NAME(S) / PHOTO: N. Satam
 W. Pennington

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) EDD _____
 TEMPERATURE ON RECEIPT °C: 21.1 Cooler #1 _____ Cooler #2 _____
 SPECIAL INSTRUCTIONS OR NOTES: SHELL CONTRACT RATE APPLIES
 Please include "J" values on Level 2 Reports
 Please provide sample receipt upon login.

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE				NO. OF CONT.	VOC 8260B	SVOC/PAH 8270B	moisture	PID (ppm)	Laboratory Notes
	DATE	TIME	HCL	HNO3		H2SO4	NONE	OTHER							
	GWP-1-50	7/29/19	1500	Water	X					3	X				
	GWP-1-58	7/29/19	1500	↓	X					3	X				
	TB072709	7/29/19	1058	↓	X					2	X				
	GWP-2-50	7/29/19	1220		X					3	X				
	GWP-2-58	7/29/19	1455		X					3	X				
	GWP-3-50	7/29/19	1620		X					3	X				
	GWP-3-58	7/29/19	1040		X					3	X				
	GWP-4-50	7/29/19	1120		X					3	X				
	GWP-4-58	7/29/19			X					3	X				
	GWP-6-50	7/29/19			X					3	X				

Relinquished by: (Signature) *Satam* Date: 7/29/19 Time: 1810
 Relinquished by: (Signature) _____ Date: 7/30/19 Time: 0845
 Relinquished by: (Signature) _____ Date: _____ Time: _____

Shell Oil Products Chain of Custody Record



LAB (LOCATION)
4143 Greenbrier Dr., Stafford, TX 77477
XENCO () TEL: 281-261-0420 FAX: 281-261-0420

- CALSCIENCE ()
- TEST AMERICA ()
- SPL ()
- OTHER ()

CONSULTANT COMPANY:

URS CORPORATION URS CORPORATION - FIELD OFFICE

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300

170 E. RAND AVENUE

CITY: ST. LOUIS, MISSOURI 63110

HARTFORD, ILLINOIS 62048

TELEPHONE OFF: 314-743-4166

CELL: 314-452-3929

FAX: OFF: 314-743-4166

CELL: 314-452-3929

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (10 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) EDD

TEMPERATURE ON RECEIPT C° Cooler #1

Cooler #2

Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

SHELL CONTRACT RATE APPLIES
Please include "J" values on Level 2 Reports
Please provide sample receipt upon login.

Print Bill To Contact Name:

KEVIN DYER

P.O. #

SAP #

3 4 0 0 6 1

INCIDENT # (ENV SERVICES):

9 7 2 1 6 6 4 0

DATE: 7/29/19

PAGE: 2 of 2

SOPUS SITE ADDRESS (Street, City and State):

900 S. CENTRAL AVENUE; ROXANA, ILLINOIS 62084

CONSULTANT PROJECT CONTACT (Report):

WENDY PENNINGTON

SAMPLER NAME(S) (PID):

N. Satam

Route 111 & Rand Ave Vicinity / 21561979

LAB USE ONLY: 339233H

CONSULTANT PROJECT NAME / NO.:

Route 111 & Rand Ave Vicinity / 21561979

REQUESTED ANALYSIS

LAB USE ONLY	FIELD SAMPLE IDENTIFICATION	SAMPLING DATE	TIME	MATRIX	PRESERVATIVE	HCL	HNO3	H2SO4	INONE	OTHER	NO. OF CONT.	VOC 8260B	SVOC/PAH 8270B	moisture	PID (ppm)	Laboratory Notes
	GWP-6-50	7/29/19	1500	Water		X					3	X				Temp Blank
	GWP-6-50D	7/29/19	1600	J		X					3	X				Included
	GWP-6-58	7/29/19	1700	J		X					3	X				

Relinquished by: (Signature)

Received by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Date: 7/29/19

Time: 1810

Date: 7/30/19

Time: 0845

Date: 7/30/19

Time: 0845

Date: 7/30/19

Time: 0845

Date: 7/30/19

Time: 0845

Date: 7/30/19

Time: 0845

Date: 7/30/19

Time: 0845

Date: 7/30/19

Time: 0845

Date: 7/30/19

Time: 0845



Prelogin / Nonconformance Report - Sample Log-In

Client: URS
Date/Time: 07/30/09
Lab ID #: 339233
Initials: [Signature]



Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No. <u>1399</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>18</u> lbs <u>2.1</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 339351

Reviewer: Tony Sedlacek

Date Reviewed: 1/7/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-7-50	GWP-7-58
GWP-5-50	GWP-5-58

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that SVOC surrogate and MS/MSD recoveries were outside evaluation criteria. Also, LCS and MS/MSD RPDs were outside evaluation criteria. Samples were diluted due to high levels of target analytes. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that there was a sample time discrepancy between the sample label and COC for sample GWP-7-50. The sample label had a sample time of 1000 and the COC had a sample time of 1100. The laboratory contacted URS and was directed that the COC time of 1100 was correct; therefore, the sample was logged in with a sample time of 1100. This issue was resolved prior to sample analysis. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes, however LCS RPDs were outside evaluation criteria.

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
534660-1-BKS	SVOCs	Aniline	68/92	30	5-115/25
534660-1-BKS	SVOCs	Hexachloroethane	44/80	58	25-153/25
534660-1-BKS	SVOCs	Pyridine	24/52	74	16-86/28

Analytical data did not require qualification since LCS recoveries were within evaluation criteria and samples are not qualified due to LCS/LCSD RPDs outside evaluation criteria alone.

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Field ID	Parameter	Surrogate	Recovery	Criteria
GWP-7-58	SVOCs	2-Fluorobiphenyl	4	43-116
GWP-7-58	SVOCs	2-Fluorophenol	0	21-100
GWP-7-58	SVOCs	Nitrobenzene-d ₅	0	35-114
GWP-7-58	SVOCs	Phenol-d ₆	0	10-94

Analytical data that required qualification based on surrogate data are included in the table below. Professional judgment was used not to reject data since the low surrogate recoveries were confirmed by re-analysis. The low surrogate recoveries may be attributed to matrix interference.

Field ID	Parameter	Analyte	Qualification
GWP-7-58	SVOCs	All SVOC detects/nondetects	J/UJ

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

Yes, sample GWP-7-50 was spiked and analyzed for SVOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
GWP-7-50	SVOCs	Aniline	33/48	38	5-115/25
GWP-7-50	SVOCs	bis(2-chloroethyl) ether	73/46	43	65-135/25
GWP-7-50	SVOCs	bis(2-chloroisopropyl) ether	71/60	15	65-135/25
GWP-7-50	SVOCs	4-Chloroaniline	8/71	161	9-128/25
GWP-7-50	SVOCs	3,3'-Dichlorobenzidine	41/63	44	12-147/25
GWP-7-50	SVOCs	Hexachloroethane	98/42	78	25-153/25
GWP-7-50	SVOCs	2-Methylphenol	65/27	46	14-176/25
GWP-7-50	SVOCs	Nitrobenzene	96/69	31	65-135/25
GWP-7-50	SVOCs	Pyridine	25/17	36	16/86/28

USEPA National Functional Guidelines for Superfund Organic Methods Data Review indicates that organic data should not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria, therefore no qualification of the data was required.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 339351

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S Central Avenue

Route 111 & Rand Ave Vicinity/21561979

04-AUG-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

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04-AUG-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **339351**
900 S Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 339351. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 339351 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Sample Cross Reference 339351



URS Corporation-St. Louis, St. Louis, MO
900 S Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-7-50	W	Jul-30-09 11:00		339351-001
GWP-7-58	W	Jul-30-09 13:00		339351-002
GWP-5-50	W	Jul-30-09 15:45		339351-003
GWP-5-58	W	Jul-30-09 17:00		339351-004



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900 S Central Avenue

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 339351

Report Date: 04-AUG-09
Date Received: 07/31/2009

Sample receipt non conformances and Comments:

Sample identified on line one of COC, GWP-7-50 collected 7/30/09 @ 11:00, label on containers were marked as collected at 10:00. Client was contacted and the correct time is on the COC, 11:00.

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-767377 SVOCs by SW-846 8270C

2-methylphenol, 3,3-Dichlorobenzidine, 4-Chloroaniline, Aniline (Phenylamine, Aminobenzene), Hexachloroethane, Nitrobenzene, Pyridine, bis(2-chloroethyl) ether RPD was outside QC limits in the Matrix Spike/Matrix Spike Duplicate.

Samples affected are: 339351-002, -001, -003, -004

Surrogates 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, Phenol-d6 recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 339351-002.

4-Chloroaniline recovered below QC limits in the Matrix Spike. bis(2-chloroethyl) ether, bis(2-chloroisopropyl) ether recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 339351-002, -001, -003, -004.

The Laboratory Control Sample for 4-Chloroaniline, bis(2-chloroisopropyl) ether, bis(2-chloroethyl) ether is within laboratory Control Limits

Aniline (Phenylamine, Aminobenzene), Hexachloroethane, Pyridine RPD was outside laboratory control limits in the Blank Spike/Blank Spike Duplicate.

Samples affected are: 339351-002, -001, -003, -004



Certificate of Analysis Summary 339351

URS Corporation - St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S Central Avenue

Date Received in Lab: Fri Jul-31-09 09:00 am

Report Date: 04-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339351-001	339351-002	339351-003	339351-004
	Field Id:	GWP-7-50	GWP-7-58	GWP-5-50	GWP-5-58
Depth:					
Matrix:		WATER	WATER	WATER	WATER
Sampled:		Jul-30-09 11:00	Jul-30-09 13:00	Jul-30-09 15:45	Jul-30-09 17:00
Extracted:		Jul-31-09 12:09	Jul-31-09 12:18	Jul-31-09 12:21	Jul-31-09 12:24
Analyzed:		Aug-03-09 12:58	Aug-03-09 13:35	Aug-03-09 14:13	Aug-03-09 14:51
Units/RL:		mg/L RL	mg/L RL	mg/L RL	mg/L RL
Acenaphthene		U 0.005	U 0.005	0.001 J 0.005	U 0.006
Acenaphthylene		U 0.005	U 0.005	U 0.005	U 0.006
Aniline (Phenylamine, Aminobenzene)		U 0.021	U 0.022	U 0.022	U 0.022
Anthracene		U 0.005	U 0.005	U 0.005	U 0.006
Benzo(a)anthracene		U 0.005	U 0.005	U 0.005	U 0.006
Benzo(a)pyrene		U 0.005	U 0.005	U 0.005	U 0.006
Benzo(b)fluoranthene		U 0.005	U 0.005	U 0.005	U 0.006
Benzo(k)fluoranthene		U 0.005	U 0.005	U 0.005	U 0.006
Benzo(g,h,i)perylene		U 0.005	U 0.005	U 0.005	U 0.006
Benzoic Acid		U 0.032	U 0.032	U 0.033	U 0.033
Benzyl Butyl Phthalate		U 0.005	U 0.005	U 0.005	U 0.006
bis(2-chloroethoxy) methane		U 0.011	U 0.011	U 0.011	U 0.011
bis(2-chloroethyl) ether		U 0.011	U 0.011	U 0.011	U 0.011
bis(2-chloroisopropyl) ether		U 0.005	U 0.005	U 0.005	U 0.006
bis(2-ethylhexyl) phthalate		U 0.011	U 0.011	U 0.011	U 0.011
4-Bromophenyl-phenylether		U 0.011	U 0.011	U 0.011	U 0.011
4-chloro-3-methylphenol		U 0.011	U 0.011	U 0.011	U 0.011
4-Chloroaniline		U 0.021	U 0.022	U 0.022	U 0.022
2-Chloronaphthalene		U 0.011	U 0.011	U 0.011	U 0.011
2-Chlorophenol		U 0.011	U 0.011	U 0.011	U 0.011
4-Chlorophenyl Phenyl Ether		U 0.011	U 0.011	U 0.011	U 0.011
Chrysene		U 0.005	U 0.005	U 0.005	U 0.006
Dibenz(a,h)anthracene		U 0.005	U 0.005	U 0.005	U 0.006
Dibenzofuran		U 0.011	U 0.011	U 0.011	U 0.011
di-n-Butyl Phthalate		U 0.005	U 0.005	U 0.005	U 0.006

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work, order unless otherwise agreed to in writing.

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Carlos Castro

Managing Director, Texas



Certificate of Analysis Summary 339351
URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S Central Avenue

Date Received in Lab: Fri Jul-31-09 09:00 am

Report Date: 04-AUG-09

Project Manager: Debbie Simmons

Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	339351-001	339351-002	339351-003	339351-004
Analysis Requested											
SVOAs by SW-846 8270C											
								WATER	WATER	WATER	WATER
								Jul-30-09 11:00	Jul-30-09 13:00	Jul-30-09 15:45	Jul-30-09 17:00
								Jul-31-09 12:09	Jul-31-09 12:18	Jul-31-09 12:21	Jul-31-09 12:24
								Aug-03-09 12:58	Aug-03-09 13:35	Aug-03-09 14:13	Aug-03-09 14:51
								mg/L	mg/L	mg/L	mg/L
								RL	RL	RL	RL
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.005	U 0.005	U 0.005	U 0.006
								U 0.005	U 0.005	U 0.005	U 0.006
								0.010 J 0.011	0.003 J 0.011	0.008 J 0.011	0.008 J 0.011
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.005	U 0.005	U 0.005	U 0.006
								U 0.005	U 0.005	U 0.005	U 0.006
								U 0.005	U 0.005	U 0.005	U 0.006
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.005	U 0.005	U 0.005	U 0.006
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.005	U 0.005	U 0.005	U 0.006
								U 0.011	U 0.011	U 0.011	U 0.011
								0.040 0.005	0.050 0.005	0.048 0.006	0.048 0.006
								0.018 0.011	U 0.011	U 0.011	U 0.011
								0.042 0.011	U 0.011	U 0.011	0.002 J 0.011
								0.225 D 0.053	0.002 J 0.005	0.065 0.005	0.211 D 0.056
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.011	U 0.011	U 0.011	U 0.011
								U 0.021	U 0.022	U 0.022	U 0.022
								U 0.011	U 0.011	U 0.011	U 0.011

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount involved for this work order unless otherwise agreed to in writing.

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Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 339351

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S Central Avenue

Date Received in Lab: Fri Jul-31-09 09:00 am

Report Date: 04-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339351-001	339351-002	339351-003	339351-004
	Field Id:	GWP-7-50	GWP-7-58	GWP-5-50	GWP-5-58
Depth:					
Matrix:	WATER	WATER	WATER	WATER	WATER
Sampled:	Jul-30-09 11:00	Jul-30-09 13:00	Jul-30-09 15:45	Jul-30-09 17:00	Jul-30-09 17:00
Extracted:	Jul-31-09 12:09	Jul-31-09 12:18	Jul-31-09 12:21	Jul-31-09 12:24	Jul-31-09 12:24
Analyzed:	Aug-03-09 12:58	Aug-03-09 13:35	Aug-03-09 14:13	Aug-03-09 14:51	Aug-03-09 14:51
Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
2-Nitrophenol	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
4-Nitrophenol	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
N-Nitrosodi-n-Propylamine	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
N-Nitrosodiphenylamine	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
Pentachlorophenol	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
Phenanthrene	U 0.005	U 0.005	0.004 J 0.005	U 0.006	U 0.006
Phenol	0.022 0.011	U 0.011	0.014 0.011	0.004 J 0.011	0.004 J 0.011
Pyrene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.006
Pyridine	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
2,4,5-Trichlorophenol	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
2,4,6-Trichlorophenol	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro
Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : SVOAs by SW-846 8270C

Client : URS Corporation-St. Louis

Work Order #: 339351

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-7-50	Jul. 30, 2009	Jul. 31, 2009	Jul. 31, 2009	7	1	Aug.3, 2009	40	3	P
GWP-7-58	Jul. 30, 2009	Jul. 31, 2009	Jul. 31, 2009	7	1	Aug.3, 2009	40	3	P
GWP-5-50	Jul. 30, 2009	Jul. 31, 2009	Jul. 31, 2009	7	1	Aug.3, 2009	40	3	P
GWP-5-58	Jul. 30, 2009	Jul. 31, 2009	Jul. 31, 2009	7	1	Aug.3, 2009	40	3	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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Form 2 - Surrogate Recoveries

Project Name: 900 S Central Avenue

Work Orders : 339351,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767377

Sample: 534660-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 11:04

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.048	0.050	96	43-116	
2-Fluorophenol	0.025	0.050	50	21-100	
Nitrobenzene-d5	0.044	0.050	88	35-114	
Phenol-d6	0.014	0.050	28	10-94	
Terphenyl-D14	0.054	0.050	108	33-141	
2,4,6-Tribromophenol	0.033	0.050	66	10-123	

Lab Batch #: 767377

Sample: 534660-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 11:42

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.050	0.050	100	43-116	
2-Fluorophenol	0.021	0.050	42	21-100	
Nitrobenzene-d5	0.041	0.050	82	35-114	
Phenol-d6	0.021	0.050	42	10-94	
Terphenyl-D14	0.056	0.050	112	33-141	
2,4,6-Tribromophenol	0.042	0.050	84	10-123	

Lab Batch #: 767377

Sample: 534660-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 12:20

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.046	0.050	92	43-116	
2-Fluorophenol	0.032	0.050	64	21-100	
Nitrobenzene-d5	0.045	0.050	90	35-114	
Phenol-d6	0.023	0.050	46	10-94	
Terphenyl-D14	0.052	0.050	104	33-141	
2,4,6-Tribromophenol	0.038	0.050	76	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S Central Avenue

Work Orders : 339351,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767377

Sample: 339351-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 12:58

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.051	0.053	96	43-116	
2-Fluorophenol	0.026	0.053	49	21-100	
Nitrobenzene-d5	0.041	0.053	77	35-114	
Phenol-d6	0.016	0.053	30	10-94	
Terphenyl-D14	0.053	0.053	100	33-141	
2,4,6-Tribromophenol	0.047	0.053	89	10-123	

Lab Batch #: 767377

Sample: 339351-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 13:35

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.002	0.054	4	43-116	**
2-Fluorophenol	U	0.054	0	21-100	**
Nitrobenzene-d5	U	0.054	0	35-114	**
Phenol-d6	U	0.054	0	10-94	**
Terphenyl-D14	0.055	0.054	102	33-141	
2,4,6-Tribromophenol	0.043	0.054	80	10-123	

Lab Batch #: 767377

Sample: 339351-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 14:13

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.051	0.054	94	43-116	
2-Fluorophenol	0.028	0.054	52	21-100	
Nitrobenzene-d5	0.046	0.054	85	35-114	
Phenol-d6	0.018	0.054	33	10-94	
Terphenyl-D14	0.052	0.054	96	33-141	
2,4,6-Tribromophenol	0.050	0.054	93	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S Central Avenue

Work Orders : 339351,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767377

Sample: 339351-004 / SMP

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 08/03/09 14:51

SURROGATE RECOVERY STUDY

SVOs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.055	0.056	98	43-116	
2-Fluorophenol	0.019	0.056	34	21-100	
Nitrobenzene-d5	0.050	0.056	89	35-114	
Phenol-d6	0.019	0.056	34	10-94	
Terphenyl-D14	0.056	0.056	100	33-141	
2,4,6-Tribromophenol	0.053	0.056	95	10-123	

Lab Batch #: 767377

Sample: 339351-001 / DL

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 08/03/09 15:30

SURROGATE RECOVERY STUDY

SVOs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.049	0.053	92	43-116	
2-Fluorophenol	0.041	0.053	77	21-100	
Nitrobenzene-d5	0.040	0.053	75	35-114	
Phenol-d6	0.019	0.053	36	10-94	
Terphenyl-D14	0.051	0.053	96	33-141	
2,4,6-Tribromophenol	0.025	0.053	47	10-123	

Lab Batch #: 767377

Sample: 339351-004 / DL

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 08/03/09 16:08

SURROGATE RECOVERY STUDY

SVOs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.050	0.056	89	43-116	
2-Fluorophenol	0.037	0.056	66	21-100	
Nitrobenzene-d5	0.034	0.056	61	35-114	
Phenol-d6	0.015	0.056	27	10-94	
Terphenyl-D14	0.051	0.056	91	33-141	
2,4,6-Tribromophenol	0.030	0.056	54	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S Central Avenue

Work Orders : 339351,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767377

Sample: 339351-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 17:25

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.050	0.051	98	43-116	
2-Fluorophenol	0.027	0.051	53	21-100	
Nitrobenzene-d5	0.050	0.051	98	35-114	
Phenol-d6	0.018	0.051	35	10-94	
Terphenyl-D14	0.055	0.051	108	33-141	
2,4,6-Tribromophenol	0.047	0.051	92	10-123	

Lab Batch #: 767377

Sample: 339351-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 18:03

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.049	0.052	94	43-116	
2-Fluorophenol	0.016	0.052	31	21-100	
Nitrobenzene-d5	0.037	0.052	71	35-114	
Phenol-d6	0.015	0.052	29	10-94	
Terphenyl-D14	0.056	0.052	108	33-141	
2,4,6-Tribromophenol	0.048	0.052	92	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Project Name: 900 S Central Avenue

Work Order #: 339351

Analyst: KAN

Lab Batch ID: 767377

Sample: 534660-1-BKS

Date Prepared: 07/31/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/03/2009

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

SVOAs by SW-846 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acenaphthene	<0.001	0.050	0.048	96	0.05	0.045	90	6	27-132	31	
Acenaphthylene	<0.001	0.050	0.048	96	0.05	0.045	90	6	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.001	0.050	0.034	68	0.05	0.046	92	30	5-115	25	F
Anthracene	<0.001	0.050	0.049	98	0.05	0.045	90	9	47-145	25	
Benzo(a)anthracene	<0.001	0.050	0.049	98	0.05	0.050	100	2	33-143	25	
Benzo(a)pyrene	<0.001	0.050	0.054	108	0.05	0.050	100	8	65-135	25	
Benzo(b)fluoranthene	<0.001	0.050	0.054	108	0.05	0.048	96	12	24-159	25	
Benzo(k)fluoranthene	<0.001	0.050	0.052	104	0.05	0.050	100	4	25-125	25	
Benzo(g,h,i)perylene	<0.001	0.050	0.045	90	0.05	0.041	82	9	65-135	25	
Benzoic Acid	<0.009	0.150	0.112	75	0.15	0.099	66	12	30-115	40	
Butyl Phthalate	<0.001	0.050	0.057	114	0.05	0.053	106	7	65-135	25	
bis(2-chloroethoxy) methane	<0.001	0.050	0.042	84	0.05	0.042	84	0	54-188	25	
bis(2-chloroethyl) ether	<0.001	0.050	0.038	76	0.05	0.039	78	3	65-135	25	
bis(2-chloroisopropyl) ether	<0.001	0.050	0.033	66	0.05	0.037	74	11	65-135	25	
bis(2-ethylhexyl) phthalate	<0.001	0.050	0.047	94	0.05	0.044	88	7	8-158	25	
4-Bromophenyl-phenylether	<0.001	0.050	0.049	98	0.05	0.045	90	9	65-135	25	
4-chloro-3-methylphenol	<0.001	0.050	0.054	108	0.05	0.050	100	8	16-129	33	
4-Chloroaniline	<0.001	0.050	0.053	106	0.05	0.059	118	11	9-128	25	
2-Chloronaphthalene	<0.001	0.050	0.048	96	0.05	0.045	90	6	65-135	25	
2-Chlorophenol	<0.001	0.050	0.035	70	0.05	0.042	84	18	16-116	40	

Relative Percent Difference RPD = $200 * [(C-F) / (C+F)]$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S Central Avenue

Work Order #: 339351

Analyst: KAN

Lab Batch ID: 767377

Sample: 534660-1-BKS

Date Prepared: 07/31/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/03/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		<0.001	0.050	0.049	98	0.05	0.045	90	9	65-135	25	
	4-Chlorophenyl Phenyl Ether	<0.001	0.050	0.053	106	0.05	0.050	100	6	65-135	25	
	Chrysene	<0.001	0.050	0.048	96	0.05	0.045	90	6	50-125	25	
	Dibenz(a,h)anthracene	<0.001	0.050	0.049	98	0.05	0.046	92	6	52-125	25	
	Dibenzofuran	<0.003	0.050	0.046	92	0.05	0.043	86	7	49-135	50	
	di-n-Butyl Phthalate	<0.002	0.050	0.058	116	0.05	0.064	128	10	12-147	25	
	3,3-Dichlorobenzidine	<0.001	0.050	0.056	112	0.05	0.052	104	7	65-135	25	
	2,4-Dichlorophenol	<0.001	0.050	0.050	100	0.05	0.046	92	8	37-125	50	
	Diethyl Phthalate	<0.001	0.050	0.050	100	0.05	0.046	92	8	25-175	50	
	Dimethyl Phthalate	<0.001	0.050	0.057	114	0.05	0.051	102	11	32-119	25	
	2,4-Dimethylphenol	<0.001	0.050	0.048	96	0.05	0.045	90	6	2-181	25	
	4,6-dinitro-2-methyl phenol	<0.001	0.050	0.035	70	0.05	0.034	68	3	65-135	25	
	2,4-Dinitrophenol	<0.001	0.050	0.051	102	0.05	0.047	94	8	22-135	38	
	2,4-Dinitrotoluene	<0.001	0.050	0.048	96	0.05	0.045	90	6	49-122	38	
	2,6-Dinitrotoluene	<0.001	0.050	0.049	98	0.05	0.046	92	6	43-134	50	
	di-n-Octyl Phthalate	<0.001	0.050	0.047	94	0.05	0.044	88	7	47-125	25	
	Fluoranthene	<0.001	0.050	0.049	98	0.05	0.046	92	6	48-139	25	
	Fluorene	<0.001	0.050	0.049	98	0.05	0.046	92	6	46-133	25	
	Hexachlorobenzene	<0.001	0.050	0.049	98	0.05	0.045	90	9	41-125	25	
	Hexachlorocyclopentadiene	<0.001	0.050	0.022	44	0.05	0.040	80	58	25-153	25	F
	Hexachloroethane											

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C/B)$

Blank Spike Duplicate Recovery [G] = $100 * (F/E)$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S Central Avenue

Work Order #: 339351

Analyst: KAN

Lab Batch ID: 767377

Sample: 534660-1-BKS

Date Prepared: 07/31/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/03/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
	Indeno(1,2,3-c,d)Pyrene	<0.001	0.050	0.051	102	0.05	0.047	94	8	27-160	25	
	Isophorone	<0.001	0.050	0.058	116	0.05	0.055	110	5	26-175	25	
	2-Methylnaphthalene	<0.001	0.050	0.055	110	0.05	0.053	106	4	25-175	25	
	2-methylphenol	<0.001	0.050	0.041	82	0.05	0.042	84	2	14-176	25	
	3&4-Methylphenol	<0.002	0.100	0.089	89	0.1	0.087	87	2	14-176	25	
	Naphthalene	<0.001	0.050	0.041	82	0.05	0.045	90	9	26-175	25	
	2-Nitroaniline	<0.001	0.050	0.047	94	0.05	0.043	86	9	65-135	25	
	3-Nitroaniline	<0.002	0.050	0.053	106	0.05	0.054	108	2	65-135	25	
	4-Nitroaniline	<0.001	0.050	0.057	114	0.05	0.058	116	2	65-135	25	
	Nitrobenzene	<0.001	0.050	0.039	78	0.05	0.043	86	10	65-135	25	
	2-Nitrophenol	<0.001	0.050	0.046	92	0.05	0.049	98	6	65-135	25	
	4-Nitrophenol	<0.001	0.050	0.037	74	0.05	0.035	70	6	10-80	50	
	N-Nitrosodi-n-Propylamine	<0.001	0.050	0.060	120	0.05	0.061	122	2	22-134	38	
	N-Nitrosodiphenylamine	<0.002	0.050	0.043	86	0.05	0.042	84	2	2-196	25	
	Pentachlorophenol	<0.001	0.050	0.030	60	0.05	0.029	58	3	17-117	50	
	Phenanthrene	<0.001	0.050	0.049	98	0.05	0.046	92	6	65-135	25	
	Phenol	<0.001	0.050	0.025	50	0.05	0.029	58	15	12-110	25	
	Pyrene	<0.001	0.050	0.061	122	0.05	0.056	112	9	23-152	31	
	Pyridine	<0.004	0.050	0.012	24	0.05	0.026	52	74	16-86	28	F
	2,4,5-Trichlorophenol	<0.001	0.050	0.045	90	0.05	0.039	78	14	65-135	25	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S Central Avenue

Work Order #: 339351

Analyst: KAN

Lab Batch ID: 767377

Sample: 534660-1-BKS

Batch #: 1

Date Prepared: 07/31/2009

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/03/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
2,4,6-Trichlorophenol		<0.001	0.050	0.048	96	0.05	0.044	88	9	65-135	25	

Relative Percent Difference RPD = $200 * ((C-F) / (C+F))$
 Blank Spike Recovery [D] = $100 * (C) / [B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$
 All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: 900 S Central Avenue



Work Order #: 339351

Lab Batch ID: 767377

Date Analyzed: 08/03/2009

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 339351-001 S Batch #: 1 Matrix: Water

Date Prepared: 07/31/2009 Analyst: KAN

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

SVOAs by SW-846 8270C	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Acenaphthene	<0.005	0.051	0.049	96	0.052	0.049	94	0	27-132	31	
Acenaphthylene	<0.005	0.051	0.049	96	0.052	0.050	96	2	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.021	0.051	0.017	33	0.052	0.025	48	38	5-115	25	F
Anthracene	<0.005	0.051	0.049	96	0.052	0.050	96	2	47-145	25	
Benzo(a)anthracene	<0.005	0.051	0.049	96	0.052	0.051	98	4	33-143	25	
Benzo(a)pyrene	<0.005	0.051	0.055	108	0.052	0.055	106	0	65-135	25	
Benzo(b)fluoranthene	<0.005	0.051	0.053	104	0.052	0.055	106	4	24-159	25	
Benzo(k)fluoranthene	<0.005	0.051	0.050	98	0.052	0.054	104	8	25-125	25	
Benzo(g,h,i)perylene	<0.005	0.051	0.038	75	0.052	0.036	69	5	65-135	25	
Benzoic Acid	<0.032	0.152	0.101	66	0.155	0.116	75	14	30-115	40	
Benzyl Butyl Phthalate	<0.005	0.051	0.056	110	0.052	0.057	110	2	65-135	25	
bis(2-chloroethoxy) methane	<0.011	0.051	0.047	92	0.052	0.043	83	9	54-188	25	
bis(2-chloroethyl) ether	<0.011	0.051	0.037	73	0.052	0.024	46	43	65-135	25	XF
bis(2-chloroisopropyl) ether	<0.011	0.051	0.036	71	0.052	0.031	60	15	65-135	25	X
bis(2-ethylhexyl) phthalate	<0.005	0.051	0.047	92	0.052	0.048	92	2	8-158	25	
4-Bromophenyl-phenylether	<0.011	0.051	0.049	96	0.052	0.050	96	2	65-135	25	
4-chloro-3-methylphenol	<0.011	0.051	0.057	112	0.052	0.055	106	4	16-129	33	
4-Chloroaniline	<0.021	0.051	0.004	8	0.052	0.037	71	161	9-128	25	XF
2-Chloronaphthalene	<0.011	0.051	0.050	98	0.052	0.049	94	2	65-135	25	
2-Chlorophenol	<0.011	0.051	0.030	59	0.052	0.027	52	11	16-116	40	
4-Chlorophenyl Phenyl Ether	<0.011	0.051	0.050	98	0.052	0.050	96	0	65-135	25	
Chrysene	<0.005	0.051	0.054	106	0.052	0.055	106	2	65-135	25	
Dibenz(a,h)anthracene	<0.005	0.051	0.042	82	0.052	0.040	77	5	50-125	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S Central Avenue



Work Order #: 339351

Lab Batch ID: 767377

Date Analyzed: 08/03/2009

Reporting Units: mg/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC-Sample ID: 339351-001 S Batch #: 1 Matrix: Water

Date Prepared: 07/31/2009 Analyst: KAN

SVOAs by SW-846 8270C	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dibenzofuran	<0.011	0.051	0.050	98	0.052	0.051	98	2	52-125	25	
di-n-Butyl Phthalate	<0.005	0.051	0.046	90	0.052	0.047	90	2	49-135	50	
3,3-Dichlorobenzidine	<0.011	0.051	0.021	41	0.052	0.033	63	44	12-147	25	F
2,4-Dichlorophenol	<0.011	0.051	0.062	122	0.052	0.058	112	7	65-135	25	
Diethyl Phthalate	<0.005	0.051	0.051	100	0.052	0.050	96	2	37-125	50	
Dimethyl Phthalate	<0.005	0.051	0.051	100	0.052	0.051	98	0	25-175	50	
2,4-Dimethylphenol	0.010	0.051	0.058	94	0.052	0.067	110	14	32-119	25	
4,6-dinitro-2-methyl phenol	<0.011	0.051	0.049	96	0.052	0.050	96	2	2-181	25	
2,4-Dinitrophenol	<0.011	0.051	0.041	80	0.052	0.043	83	5	65-135	25	
2,4-Dinitrotoluene	<0.011	0.051	0.052	102	0.052	0.052	100	0	22-135	38	
2,6-Dinitrotoluene	<0.011	0.051	0.049	96	0.052	0.049	94	0	49-122	38	
di-n-Octyl Phthalate	<0.005	0.051	0.051	100	0.052	0.053	102	4	43-134	50	
Fluoranthene	<0.005	0.051	0.047	92	0.052	0.048	92	2	47-125	25	
Fluorene	<0.005	0.051	0.051	100	0.052	0.051	98	0	48-139	25	
Hexachlorobenzene	<0.011	0.051	0.050	98	0.052	0.051	98	2	46-133	25	
Hexachlorocyclopentadiene	<0.011	0.051	0.050	98	0.052	0.050	96	0	41-125	25	
Hexachloroethane	<0.011	0.051	0.050	98	0.052	0.022	42	78	25-153	25	F
Indeno(1,2,3-c,d)Pyrene	<0.005	0.051	0.043	84	0.052	0.041	79	5	27-160	25	
Isophorone	<0.011	0.051	0.061	120	0.052	0.058	112	5	26-175	25	
2-Methylnaphthalene	0.040	0.051	0.103	124	0.052	0.093	102	10	25-175	25	
2-methylphenol	0.018	0.051	0.051	65	0.052	0.032	27	46	14-176	25	F
3&4-Methylphenol	0.042	0.101	0.107	64	0.103	0.114	70	6	14-176	25	
Naphthalene	0.183	0.051	0.256	143	0.052	0.201	35	24	26-175	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Project Name: 900 S Central Avenue

Work Order #: 339351

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch ID: 767377

Batch #: 1 Matrix: Water

Date Analyzed: 08/03/2009

QC-Sample ID: 339351-001 S

Date Prepared: 07/31/2009

Analyst: KAN

Reporting Units: mg/L

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
SVOAs by SW-846 8270C											
2-Nitroaniline	<0.011	0.051	0.046	90	0.052	0.047	90	2	65-135	25	
3-Nitroaniline	<0.011	0.051	0.036	71	0.052	0.044	85	20	65-135	25	
4-Nitroaniline	<0.021	0.051	0.052	102	0.052	0.062	119	18	65-135	25	
Nitrobenzene	<0.011	0.051	0.049	96	0.052	0.036	69	31	65-135	25	F
2-Nitrophenol	<0.011	0.051	0.057	112	0.052	0.046	88	21	65-135	25	
4-Nitrophenol	<0.011	0.051	0.039	76	0.052	0.038	73	3	10-80	50	
N-Nitrosodi-n-Propylamine	<0.011	0.051	0.061	120	0.052	0.057	110	7	22-134	38	
N-Nitrosodiphenylamine	<0.011	0.051	0.045	88	0.052	0.046	88	2	2-196	25	
Pentachlorophenol	<0.011	0.051	0.027	53	0.052	0.028	54	4	17-117	50	
Phenanthrene	<0.005	0.051	0.049	96	0.052	0.050	96	2	65-135	25	
Phenol	0.022	0.051	0.038	31	0.052	0.036	27	5	12-110	25	
Pyrene	<0.005	0.051	0.060	118	0.052	0.061	117	2	23-152	31	
Pyridine	<0.011	0.051	0.013	25	0.052	0.009	17	36	16-86	28	F
2,4,5-Trichlorophenol	<0.011	0.051	0.050	98	0.052	0.050	96	0	65-135	25	
2,4,6-Trichlorophenol	<0.011	0.051	0.052	102	0.052	0.052	100	0	65-135	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit

2 coolers

Shell Oil Products Chain Of Custody Record



LAB (LOCATION)
 4143 Greenbrier Dr., Stafford, TX 77477
 XENCO PH: 281-240-4200 FAX: 281-240-8280
 CALSCIENCE
 TEST AMERICA
 SPL
 OTHER

Print Bill To Contact Name: KEVIN DYER
 PO #
 SAP #
 DATE: 7/30/09
 PAGE: 1 of 1
 CHECK IF NO INCIDENT # APPLIES

INCIDENT # (ENV SERVICES):
 9 7 2 1 6 6 4 0
 3 4 0 0 6 1
 SOPS SITE ADDRESS (Street, City and State):
 900 S. CENTRAL AVENUE, ROXANA, ILLINOIS 62084
 CONSULTANT PROJECT NAME (NO.):
 WENDY PENNINGTON
 ROUTE 111 & RAND AVE VICINITY / 215861979
 LAB USE ONLY
 339351-A

URS CORPORATION - FIELD OFFICE
 170 E. RAND AVENUE
 HARTFORD, ILLINOIS 62048
 EMAIL: wendy_pennington@urscorp.com
 OFF: 314-743-4166
 CELL: 314-452-8929
 TURNAROUND TIME (CALENDAR DAYS):
 24 HOURS
 2 DAYS
 3 DAYS
 5 DAYS
 OTHER (SPECIFY) EDD
 Cooler #3
 SHELL CONTRACT RATE APPLIES

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4
 TEMPERATURE ON RECEIPT C° Cooler #1
 SPECIAL INSTRUCTIONS OR NOTES:
 Please include "J" values on Level 2 Reports
 Please provide sample receipt upon login.

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT.	Requested Analysis	PID (ppm)	Laboratory Notes
	DATE	TIME	HCL	HNO3		H2SO4	NONE	OTHER				
	GWP-7-50	7/30/09	1100	Water		X			2	X		48-hr. toxin around fuel
	GWP-7-50MS		1100			X			2	X		
	GWP-7-50MSD		1100			X			2	X		
	GWP-7-58		1306			X			2	X		
	GWP-5-50		1545			X			2	X		
	GWP-5-58		1700			X			2	X		

Requisitioned by: (Signature) Wendy Pennington
 Received by: (Signature) [Signature]
 Date: 7/30/09 Time: 1800
 Requisitioned by: (Signature) [Signature]
 Received by: (Signature) [Signature]
 Date: 7/31/09 Time: 0900
 052708 Revision



Prelogin / Nonconformance Report - Sample Log-In

Client: URS
Date/Time: 7-31-09
Lab ID #: 339351
Initials: TT

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when-relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	<u>No</u>		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No. <u>292</u>	Cooler 2 No. <u>06</u>	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>48</u> lbs <u>2.7</u> °C	<u>26</u> lbs <u>2.0</u> °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: Wendy Pennington Contacted by: Debbie Simmons Date/Time: 7/31/09 *email*

Regarding: oil bottles Time-1000 COC-1100

Corrective Action Taken: Correct time is on COC, 11:00

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 339466

Reviewer: Tony Sedlacek

Date Reviewed: 1/7/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-8-50	GWP-8-58
GWP-9-50EB	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that SVOC LCS RPDs were outside evaluation criteria. Although not indicated in the laboratory case narrative, naphthalene was detected in the equipment blank. This issue is addressed further in the appropriate section below.

The cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
GWP-9-50EB	SVOCs	Naphthalene	0.001	mg/L

Naphthalene was reported at concentrations greater than five times (5X) the equipment blank concentration in samples associated with the equipment blank; therefore, no qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
534665-1-BKS	SVOCs	Acenaphthylene	85/60	34	46-108/25
534665-1-BKS	SVOCs	3,3'-Dichlorobenzidine	100/50	67	12-147/25

Analytical data did not require qualification since LCS recoveries were within evaluation criteria and samples are not qualified due to LCS/LCSD RPDs outside evaluation criteria alone.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 339466

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

05-AUG-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Houston - Dallas - San Antonio - Tampa - Miami - Midland - Corpus Christi - Atlanta - Latin America



05-AUG-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **339466**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 339466. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 339466 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Sample Cross Reference 339466



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-8-50	W	Jul-31-09 11:22		339466-001
GWP-8-58	W	Jul-31-09 14:00		339466-002
GWP-9-50 EB	W	Jul-31-09 15:30		339466-003

CASE NARRATIVE



Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic

Work Order Number: 339466

Report Date: 05-AUG-09

Date Received: 08/01/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-767464 SVOCs by SW-846 8270C

3,3-Dichlorobenzidine, Acenaphthylene RPD was outside laboratory control limits in the Blank Spike/Blank Spike Duplicate.

Samples affected are: 339466-001, -002, -003



Certificate of Analysis Summary 339466

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Sat Aug-01-09 09:00 am
Report Date: 05-AUG-09
Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339466-001	339466-002	339466-003
	Field Id:	GWP-8-50	GWP-8-58	GWP-9-50 EB
Depth:				
Matrix:	WATER	WATER	WATER	
Sampled:	Jul-31-09 11:22	Jul-31-09 14:00	Jul-31-09 15:30	
Extracted:	Aug-01-09 13:39	Aug-01-09 13:42	Aug-01-09 13:45	
Analyzed:	Aug-03-09 12:09	Aug-03-09 12:45	Aug-03-09 13:22	
Units/RL:	mg/L RL	mg/L RL	mg/L RL	
Acenaphthene	U 0.005	U 0.005	U 0.005	
Acenaphthylene	U 0.005	U 0.005	U 0.005	
Aniline (Phenylamine, Aminobenzene)	U 0.021	U 0.021	U 0.020	
Anthracene	U 0.005	U 0.005	U 0.005	
Benzo(a)anthracene	U 0.005	U 0.005	U 0.005	
Benzo(a)pyrene	U 0.005	U 0.005	U 0.005	
Benzo(b)fluoranthene	U 0.005	U 0.005	U 0.005	
Benzo(k)fluoranthene	U 0.005	U 0.005	U 0.005	
Benzo(g,h,i)perylene	U 0.005	U 0.005	U 0.005	
Benzoic Acid	U 0.032	U 0.031	U 0.030	
Benzyl Butyl Phthalate	U 0.005	U 0.005	U 0.005	
bis(2-chloroethoxy) methane	U 0.011	U 0.010	U 0.010	
bis(2-chloroethyl) ether	U 0.011	U 0.010	U 0.010	
bis(2-chloroisopropyl) ether	U 0.011	U 0.010	U 0.010	
bis(2-ethylhexyl) phthalate	U 0.005	U 0.005	U 0.005	
4-Bromophenyl-phenylether	U 0.011	U 0.010	U 0.010	
4-chloro-3-methylphenol	U 0.011	U 0.010	U 0.010	
4-Chloroaniline	U 0.021	U 0.021	U 0.020	
2-Chloronaphthalene	U 0.011	U 0.010	U 0.010	
2-Chlorophenol	U 0.011	U 0.010	U 0.010	
4-Chlorophenyl Phenyl Ether	U 0.011	U 0.010	U 0.010	
Chrysene	U 0.005	U 0.005	U 0.005	
Dibenz(a,h)anthracene	U 0.005	U 0.005	U 0.005	
Dibenzofuran	0.001 J 0.011	U 0.010	U 0.010	
di-n-Butyl Phthalate	U 0.005	U 0.005	U 0.005	

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Carlos Castro
 Managing Director, Texas

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Certificate of Analysis Summary 339466

URS Corporation-St. Louis, St. Louis, MO



Date Received in Lab: Sat Aug-01-09 09:00 am
Report Date: 05-AUG-09
Project Manager: Debbie Simmons

Project Name: 900 S. Central Avenue

Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084

<i>Analysis Requested</i>	<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>
SVOAs by SW-846 8270C	339466-001	GWP-8-50	WATER	WATER	Jul-31-09 11:22	Aug-01-09 13:39	Aug-03-09 12:09	RL mg/L
3,3-Dichlorobenzidine	U	0.011						U 0.010
2,4-Dichlorophenol	U	0.011						U 0.010
Diethyl Phthalate	U	0.005						U 0.005
Dimethyl Phthalate	U	0.005						U 0.005
2,4-Dimethylphenol	0.005 J	0.011				0.002 J	0.010	U 0.010
4,6-dinitro-2-methyl phenol	U	0.011						U 0.010
2,4-Dinitrophenol	U	0.011						U 0.010
2,4-Dinitrotoluene	U	0.011						U 0.010
2,6-Dinitrotoluene	U	0.011						U 0.010
di-n-Octyl Phthalate	U	0.005						U 0.005
Fluoranthene	U	0.005						U 0.005
Fluorene	0.002 J	0.005				0.001 J	0.005	U 0.005
Hexachlorobenzene	U	0.011						U 0.010
Hexachlorocyclopentadiene	U	0.011						U 0.010
Hexachloroethane	U	0.011						U 0.010
Indeno(1,2,3-c,d)Pyrene	U	0.005						U 0.005
Isophorone	U	0.011						U 0.010
2-Methylnaphthalene	0.055	0.005				0.054	0.005	U 0.005
2-methylphenol	U	0.011						U 0.010
3&4-Methylphenol	0.003 J	0.011				0.002 J	0.010	U 0.010
Naphthalene	0.209 D	0.053				0.184 D	0.052	0.001 J 0.005
2-Nitroaniline	U	0.011						U 0.010
3-Nitroaniline	U	0.011						U 0.010
4-Nitroaniline	U	0.021						U 0.020
Nitrobenzene	U	0.011						U 0.010

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 Managing Director, Texas



Certificate of Analysis Summary 339466

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Sat Aug-01-09 09:00 am

Report Date: 05-AUG-09

Project Manager: Debbie Simmons

Project Name: 900 S. Central Avenue

Analysis Requested	Lab Id:	339466-001	339466-002	339466-003
	Field Id:	GWP-8-50	GWP-8-58	GWP-9-50 EB
Depth:				
Matrix:	WATER	WATER	WATER	
Sampled:	Jul-31-09 11:22	Jul-31-09 14:00	Jul-31-09 15:30	
Extracted:	Aug-01-09 13:39	Aug-01-09 13:42	Aug-01-09 13:45	
Analyzed:	Aug-03-09 12:09	Aug-03-09 12:45	Aug-03-09 13:22	
Units/RL:	mg/L RL	mg/L RL	mg/L RL	
2-Nitrophenol	U 0.011	U 0.010	U 0.010	
4-Nitrophenol	U 0.011	U 0.010	U 0.010	
N-Nitrosodi-n-Propylamine	U 0.011	U 0.010	U 0.010	
N-Nitrosodiphenylamine	U 0.011	U 0.010	U 0.010	
Pentachlorophenol	U 0.011	U 0.010	U 0.010	
Phenanthrene	0.003 J 0.005	0.002 J 0.005	U 0.005	
Phenol	0.013 0.011	0.002 J 0.010	U 0.010	
Pyrene	U 0.005	U 0.005	U 0.005	
Pyridine	U 0.011	U 0.010	U 0.010	
2,4,5-Trichlorophenol	U 0.011	U 0.010	U 0.010	
2,4,6-Trichlorophenol	U 0.011	U 0.010	U 0.010	

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Carlos Castro

Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : SVOAs by SW-846 8270C

Client : URS Corporation-St. Louis

Work Order #: 339466

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-8-50	Jul. 31, 2009	Aug. 1, 2009	Aug. 1, 2009	7	1	Aug.3, 2009	40	2	P
GWP-9-50 EB	Jul. 31, 2009	Aug. 1, 2009	Aug. 1, 2009	7	1	Aug.3, 2009	40	2	P
GWP-8-58	Jul. 31, 2009	Aug. 1, 2009	Aug. 1, 2009	7	1	Aug.3, 2009	40	2	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339466,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767464

Sample: 339466-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 12:09

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.035	0.053	66	43-116	
2-Fluorophenol	0.017	0.053	32	21-100	
Nitrobenzene-d5	0.043	0.053	81	35-114	
Phenol-d6	0.013	0.053	25	10-94	
Terphenyl-D14	0.040	0.053	75	33-141	
2,4,6-Tribromophenol	0.046	0.053	87	10-123	

Lab Batch #: 767464

Sample: 339466-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 12:45

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.035	0.052	67	43-116	
2-Fluorophenol	0.022	0.052	42	21-100	
Nitrobenzene-d5	0.041	0.052	79	35-114	
Phenol-d6	0.013	0.052	25	10-94	
Terphenyl-D14	0.040	0.052	77	33-141	
2,4,6-Tribromophenol	0.044	0.052	85	10-123	

Lab Batch #: 767464

Sample: 339466-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 13:22

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.032	0.051	63	43-116	
2-Fluorophenol	0.018	0.051	35	21-100	
Nitrobenzene-d5	0.037	0.051	73	35-114	
Phenol-d6	0.012	0.051	24	10-94	
Terphenyl-D14	0.039	0.051	76	33-141	
2,4,6-Tribromophenol	0.035	0.051	69	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339466,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767464

Sample: 534665-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 17:02

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.031	0.050	62	43-116	
2-Fluorophenol	0.025	0.050	50	21-100	
Nitrobenzene-d5	0.035	0.050	70	35-114	
Phenol-d6	0.019	0.050	38	10-94	
Terphenyl-D14	0.036	0.050	72	33-141	
2,4,6-Tribromophenol	0.034	0.050	68	10-123	

Lab Batch #: 767464

Sample: 534665-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 17:39

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.040	0.050	80	43-116	
2-Fluorophenol	0.032	0.050	64	21-100	
Nitrobenzene-d5	0.047	0.050	94	35-114	
Phenol-d6	0.025	0.050	50	10-94	
Terphenyl-D14	0.044	0.050	88	33-141	
2,4,6-Tribromophenol	0.047	0.050	94	10-123	

Lab Batch #: 767464

Sample: 534665-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 18:16

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.032	0.050	64	21-100	
Nitrobenzene-d5	0.046	0.050	92	35-114	
Phenol-d6	0.026	0.050	52	10-94	
Terphenyl-D14	0.042	0.050	84	33-141	
2,4,6-Tribromophenol	0.045	0.050	90	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339466,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767464

Sample: 339466-001 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/04/09 17:15

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.049	0.053	92	43-116	
2-Fluorophenol	0.032	0.053	60	21-100	
Nitrobenzene-d5	0.046	0.053	87	35-114	
Phenol-d6	0.016	0.053	30	10-94	
Terphenyl-D14	0.052	0.053	98	33-141	
2,4,6-Tribromophenol	0.042	0.053	79	10-123	

Lab Batch #: 767464

Sample: 339466-002 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/04/09 19:10

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.048	0.052	92	43-116	
2-Fluorophenol	0.031	0.052	60	21-100	
Nitrobenzene-d5	0.031	0.052	60	35-114	
Phenol-d6	0.021	0.052	40	10-94	
Terphenyl-D14	0.047	0.052	90	33-141	
2,4,6-Tribromophenol	0.034	0.052	65	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339466

Analyst: KAN

Lab Batch ID: 767464

Sample: 534665-1-BKS

Date Prepared: 08/01/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/03/2009

Matrix: Water

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
SVOAs by SW-846 8270C											
Acenaphthene	<0.001	0.020	0.013	65	0.02	0.013	65	0	27-132	31	
Acenaphthylene	<0.001	0.020	0.017	85	0.02	0.012	60	34	46-108	25	F
Aniline (Phenylamine, Aminobenzene)	<0.001	0.020	0.015	75	0.02	0.015	75	0	5-115	25	
Anthracene	<0.001	0.020	0.013	65	0.02	0.013	65	0	47-145	25	
Benzo(a)anthracene	<0.001	0.020	0.013	65	0.02	0.013	65	0	33-143	25	
Benzo(a)pyrene	<0.001	0.020	0.013	65	0.02	0.013	65	0	65-135	25	
Benzo(b)fluoranthene	<0.001	0.020	0.013	65	0.02	0.012	60	8	24-159	25	
Benzo(k)fluoranthene	<0.001	0.020	0.014	70	0.02	0.014	70	0	25-125	25	
Benzo(g,h,i)perylene	<0.001	0.020	0.014	70	0.02	0.013	65	7	65-135	25	
Benzoic Acid	<0.009	0.060	0.045	75	0.06	0.048	80	6	30-115	40	
Benzyl Butyl Phthalate	<0.001	0.020	0.014	70	0.02	0.013	65	7	65-135	25	
bis(2-chloroethoxy) methane	<0.001	0.020	0.014	70	0.02	0.013	65	7	54-188	25	
bis(2-chloroethyl) ether	<0.001	0.020	0.013	65	0.02	0.014	70	7	65-135	25	
bis(2-chloroisopropyl) ether	<0.001	0.020	0.013	65	0.02	0.013	65	0	65-135	25	
bis(2-ethylhexyl) phthalate	<0.001	0.020	0.014	70	0.02	0.014	70	0	8-158	25	
4-Bromophenyl-phenylether	<0.001	0.020	0.014	70	0.02	0.013	65	7	65-135	25	
4-chloro-3-methylphenol	<0.001	0.020	0.014	70	0.02	0.013	65	7	16-129	33	
4-Chloroaniline	<0.001	0.020	0.017	85	0.02	0.016	80	6	9-128	25	
2-Chloronaphthalene	<0.001	0.020	0.013	65	0.02	0.013	65	0	65-135	25	
2-Chlorophenol	<0.001	0.020	0.013	65	0.02	0.013	65	0	16-116	40	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 339466

Analyst: KAN

Lab Batch ID: 767464

Sample: 534665-1-BKS

Date Prepared: 08/01/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/03/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
	4-Chlorophenyl Phenyl Ether	<0.001	0.020	0.013	65	0.02	0.013	65	0	65-135	25	
	Chrysene	<0.001	0.020	0.014	70	0.02	0.014	70	0	65-135	25	
	Dibenz(a,h)anthracene	<0.001	0.020	0.014	70	0.02	0.014	70	0	50-125	25	
	Dibenzofuran	<0.001	0.020	0.014	70	0.02	0.013	65	7	52-125	25	
	di-n-Butyl Phthalate	<0.003	0.020	0.014	70	0.02	0.013	65	7	49-135	50	
	3,3-Dichlorobenzidine	<0.002	0.020	0.020	100	0.02	0.010	50	67	12-147	25	F
	2,4-Dichlorophenol	<0.001	0.020	0.013	65	0.02	0.013	65	0	65-135	25	
	Diethyl Phthalate	<0.001	0.020	0.014	70	0.02	0.013	65	7	37-125	50	
	Dimethyl Phthalate	<0.001	0.020	0.013	65	0.02	0.013	65	0	25-175	50	
	2,4-Dimethylphenol	<0.001	0.020	0.014	70	0.02	0.013	65	7	32-119	25	
	4,6-dinitro-2-methyl phenol	<0.001	0.020	0.012	60	0.02	0.014	70	15	2-181	25	
	2,4-Dinitrophenol	<0.001	0.020	0.013	65	0.02	0.015	75	14	65-135	25	
	2,4-Dinitrotoluene	<0.001	0.020	0.014	70	0.02	0.013	65	7	22-135	38	
	2,6-Dinitrotoluene	<0.001	0.020	0.014	70	0.02	0.014	70	0	49-122	38	
	di-n-Octyl Phthalate	<0.001	0.020	0.014	70	0.02	0.013	65	7	43-134	50	
	Fluoranthene	<0.001	0.020	0.013	65	0.02	0.013	65	0	47-125	25	
	Fluorene	<0.001	0.020	0.013	65	0.02	0.013	65	0	48-139	25	
	Hexachlorobenzene	<0.001	0.020	0.014	70	0.02	0.013	65	7	46-133	25	
	Hexachlorocyclopentadiene	<0.001	0.020	0.010	50	0.02	0.010	50	0	41-125	25	
	Hexachloroethane	<0.001	0.020	0.014	70	0.02	0.014	70	0	25-153	25	

Relative Percent Difference RPD = $200 * [(C-F) / (C+F)]$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 339466

Analyst: KAN

Lab Batch ID: 767464

Sample: 534665-1-BKS

Batch #: 1

Date Prepared: 08/01/2009

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/03/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Indeno(1,2,3-c,d)Pyrene		<0.001	0.020	0.014	70	0.02	0.014	70	0	27-160	25	
Isophorone		<0.001	0.020	0.014	70	0.02	0.013	65	7	26-175	25	
2-Methylnaphthalene		<0.001	0.020	0.014	70	0.02	0.013	65	7	25-175	25	
2-methylphenol		<0.001	0.020	0.013	65	0.02	0.012	60	8	14-176	25	
3&4-Methylphenol		<0.002	0.040	0.024	60	0.04	0.023	58	4	14-176	25	
Naphthalene		<0.001	0.020	0.013	65	0.02	0.013	65	0	26-175	25	
2-Nitroaniline		<0.001	0.020	0.014	70	0.02	0.013	65	7	65-135	25	
3-Nitroaniline		<0.002	0.020	0.015	75	0.02	0.014	70	7	65-135	25	
4-Nitroaniline		<0.001	0.020	0.017	85	0.02	0.016	80	6	65-135	25	
Nitrobenzene		<0.001	0.020	0.015	75	0.02	0.015	75	0	65-135	25	
2-Nitrophenol		<0.001	0.020	0.015	75	0.02	0.014	70	7	65-135	25	
4-Nitrophenol		<0.001	0.020	0.008	40	0.02	0.008	40	0	10-80	50	
N-Nitrosodi-n-Propylamine		<0.001	0.020	0.014	70	0.02	0.014	70	0	22-134	38	
N-Nitrosodiphenylamine		<0.002	0.020	0.013	65	0.02	0.013	65	0	2-196	25	
Pentachlorophenol		<0.001	0.020	0.012	60	0.02	0.011	55	9	17-117	50	
Phenanthrene		<0.001	0.020	0.013	65	0.02	0.013	65	0	65-135	25	
Phenol		<0.001	0.020	0.009	45	0.02	0.009	45	0	12-110	25	
Pyrene		<0.001	0.020	0.014	70	0.02	0.014	70	0	23-152	31	
Pyridine		<0.004	0.020	0.005	25	0.02	0.006	30	18	16-86	28	
2,4,5-Trichlorophenol		<0.001	0.020	0.013	65	0.02	0.014	70	7	65-135	25	

Relative Percent Difference RPD = $200 * (C-F) / (C+F)$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339466

Analyst: KAN

Lab Batch ID: 767464

Sample: 534665-1-BKS

Date Prepared: 08/01/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/03/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		<0.001	0.020	0.013	65	0.02	0.016	80	21	65-135	25	
2,4,6-Trichlorophenol												

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$
 Blank Spike Recovery [D] = $100 * (C)/[B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$
 All results are based on MDL and Validated for QC Purposes



Prelogin / Nonconformance Report - Sample Log-In

Client: URS
Date/Time: 08/01/09
Lab ID #: 339466
Initials: [Signature]

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when-relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No. <u>896</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>601</u> lbs <u>2.7</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

[Signature]

Roxana Data Review

Laboratory SDG: 339467

Reviewer: Tony Sedlacek

Date Reviewed: 1/6/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-7-50	GWP-7-58
GWP-5-50	GWP-5-58
TB073009	GWP-8-50
GWP-8-58	GWP-9-50EB

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that VOC LCS and MS/MSD recoveries and MS/MSD RPDs were outside evaluation criteria. Samples were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, methylene chloride was detected in the trip blank and sample results were qualified using professional judgment. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
TB073009	VOCs	Methylene chloride	2.04	µg/L

The methylene chloride results for samples associated with the trip blank were either non-detect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) and did not require qualification.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
535046-1-BKS	VOCs	2,2-Dichloropropane	127	N/A	75-125

The compound 2,2-dichloropropane was reported as nondetect in samples associated with the LCS recovery above evaluation criteria, indicating a possible high bias, and did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

Yes, samples GWP-9-50EB and GWP-7-50 were spiked and analyzed for VOCs.

Were MS/MSD recoveries within evaluation criteria?

No, 13 out of 62 MS recoveries, 4 out of 62 MSD recoveries and 2 out of 62 MS/MSD RPDs in sample GWP-9-50EB and 23 out of 62 MS recoveries and 19 out of 62 MSD recoveries in sample GWP-7-50 were outside evaluation criteria and were not listed individually.

USEPA National Functional Guidelines for Superfund Organic Methods Data Review indicates that organic data should not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria; therefore, no qualification of the data was required.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes

Professional judgment was used to qualify the common laboratory contaminant methylene chloride reported at concentrations less than two times (2X) the RL.

Sample ID	Analyte	New RL	Qualification	Comment
GWP-7-50	Methylene chloride	-	U	Professional Judgment
GWP-7-58	Methylene chloride	-	U	Professional Judgment

Analytical Report 339467

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900. S Central Avenue

Route 111 & Rand Ave Vicinity/21561979

11-AUG-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

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11-AUG-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **339467**
900. S Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 339467. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 339467 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Sample Cross Reference 339467



URS Corporation-St. Louis, St. Louis, MO
900. S Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-7-50	W	Jul-30-09 11:00		339467-001
GWP-7-58	W	Jul-30-09 13:00		339467-002
GWP-5-50	W	Jul-30-09 15:45		339467-003
GWP-5-58	W	Jul-30-09 17:00		339467-004
TB073009	W	Jul-30-09 00:00		339467-005
GWP-8-50	W	Jul-31-09 11:22		339467-006
GWP-8-58	W	Jul-31-09 14:00		339467-007
GWP-9-50 EB	W	Jul-31-09 15:30		339467-008



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900. S Central Avenue

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 339467

Report Date: 11-AUG-09
Date Received: 08/01/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-767569 VOAs by SW-846 8260B

1,1-Dichloropropene, 1,2,4-Trichlorobenzene, 1,4-Dichlorobenzene, Carbon Disulfide, Dibromochloromethane, Hexachlorobutadiene, Tetrachloroethylene, Vinyl Acetate, cis-1,3-Dichloropropene, o-Xylene, trans-1,2-dichloroethene recovered below QC limits in the Matrix Spike. Acetone recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Dichlorodifluoromethane recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Chloromethane, Vinyl Chloride recovered above QC limits in the Matrix Spike Duplicate.

Samples affected are: 339467-008, -005.

The Laboratory Control Sample for Acetone, Tetrachloroethylene, 1,4-Dichlorobenzene, Carbon Disulfide, Vinyl Acetate, cis-1,3-Dichloropropene, Chloromethane, o-Xylene, 1,2,4-Trichlorobenzene, Dichlorodifluoromethane, Dibromochloromethane, Hexachlorobutadiene, trans-1,2-dichloroethene, 1,1-Dichloropropene, Vinyl Chloride is within laboratory Control Limits

1,2,3-Trichlorobenzene, 2,2-Dichloropropane RPD was outside QC limits in the Matrix Spike/Matrix Spike Duplicate.

Samples affected are: 339467-008, -005



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900. S Central Avenue

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 339467

Report Date: 11-AUG-09
Date Received: 08/01/2009

Batch: LBA-767952 VOAs by SW-846 8260B

1,1-Dichloropropene, 1,2,4-Trichlorobenzene, Dibromochloromethane, trans-1,2-dichloroethene recovered below QC limits in the Matrix Spike. 1,2,4-Trimethylbenzene, 1,4-Dichlorobenzene, 2-Chlorotoluene, 4-Chlorotoluene, Acetone, Bromobenzene, Ethylbenzene, Hexachlorobutadiene, Sec-Butylbenzene, Tetrachloroethylene, isopropylbenzene, m,p-Xylenes, n-Butylbenzene, n-Propylbenzene, o-Xylene, p-Cymene (p-Isopropyltoluene), tert-Butylbenzene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene recovered below QC limits in the Matrix Spike Duplicate. Dichlorodifluoromethane recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Vinyl Chloride recovered above QC limits in the Matrix Spike Duplicate.

Samples affected are: 339467-001, -002.

The Laboratory Control Sample for Acetone, Tetrachloroethylene, m,p-Xylenes, 2-Chlorotoluene, tert-Butylbenzene, 1,4-Dichlorobenzene, Benzene, Bromobenzene, 1,2,4-Trimethylbenzene, Sec-Butylbenzene, n-Butylbenzene, Ethylbenzene, o-Xylene, Dichlorodifluoromethane, 1,2,4-Trichlorobenzene, trans-1,2-dichloroethene, Dibromochloromethane, n-Propylbenzene, 4-Chlorotoluene, p-Cymene (p-Isopropyltoluene), Hexachlorobutadiene, 1,1-Dichloropropene, isopropylbenzene, Vinyl Chloride is within laboratory Control Limits

2,2-Dichloropropane recovered above QC limits in the laboratory control sample. No sample reporting hits for this compound.

Samples affected are: 339467-001, -002.



Certificate of Analysis Summary 339467

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084
Date Received in Lab: Sat Aug-01-09 09:00 am
Report Date: 11-AUG-09
Project Manager: Debbie Simmons

<i>Analysis Requested</i>		<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>	<i>339467-001</i>	<i>339467-002</i>	<i>339467-003</i>	<i>339467-004</i>	<i>339467-005</i>	<i>339467-006</i>
		GWP-7-50	GWP-7-50		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Jul-30-09 11:00	Jul-30-09 11:00	Jul-30-09 13:00	Jul-30-09 13:00	Jul-30-09 15:45	Jul-30-09 17:00	Jul-30-09 00:00	Jul-31-09 11:22	Aug-07-09 12:20	Aug-07-09 12:22	Aug-07-09 12:34	Aug-07-09 12:30	Aug-03-09 16:40	Aug-07-09 12:32
		Aug-07-09 12:39	Aug-07-09 12:39	Aug-07-09 13:02	Aug-07-09 13:02	Aug-07-09 15:18	Aug-07-09 14:33	Aug-03-09 19:58	Aug-07-09 14:55	U 10000	U 10000	U 2000	U 2500	U 100	U 2500
										10100	16300	3820 D	1410	U 5.00	4820
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 5000	U 5000	U 1000	U 1250	U 50.0	U 1250
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 5000	U 5000	U 1000	U 1250	U 50.0	U 1250
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 1000	U 1000	U 200	U 250	U 10.0	U 250
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 1000	U 1000	U 200	U 250	U 10.0	U 250
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125
										U 500	U 500	U 100	U 125	U 5.00	U 125

This analytical report and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end user of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 339467

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900. S Central Avenue

Date Received in Lab: Sat Aug-01-09 09:00 am

Report Date: 11-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339467-001	339467-002	339467-003	339467-004	339467-005	339467-006
	Field Id:	GWP-7-50	GWP-7-58	GWP-5-50	GWP-5-58	TB073009	GWP-8-50
Depth:							
Matrix:	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sampled:	Jul-30-09 11:00	Jul-30-09 13:00	Jul-30-09 15:45	Jul-30-09 17:00	Jul-30-09 00:00	Jul-31-09 11:22	Jul-31-09 11:22
Extracted:	Aug-07-09 12:20	Aug-07-09 12:22	Aug-07-09 12:34	Aug-07-09 12:30	Aug-03-09 16:40	Aug-07-09 12:32	Aug-07-09 12:32
Analyzed:	Aug-07-09 12:39	Aug-07-09 13:02	Aug-07-09 15:18	Aug-07-09 14:33	Aug-03-09 19:58	Aug-07-09 14:55	Aug-07-09 14:55
Units/RL:	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL
1,3-Dichlorobenzene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
1,4-Dichlorobenzene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
Dichlorodifluoromethane	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
1,1-Dichloroethane	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
1,2-Dichloroethane	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
1,1,1-Dichloroethene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
cis-1,2-Dichloroethene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
trans-1,2-dichloroethene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
1,2-Dichloropropane	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
1,3-Dichloropropane	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
2,2-Dichloropropane	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
1,1-Dichloropropene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
cis-1,3-Dichloropropene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
trans-1,3-dichloropropene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
Ethylbenzene	2980 500	2340 500	287 100	2580 125	U 5.00	1290 125	U 125
Hexachlorobutadiene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
isopropylbenzene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
Methylene Chloride	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
n-Propylbenzene	132 J 500	U 500	U 100	U 125	U 5.00	U 125	U 125
Styrene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
1,1,1,2-Tetrachloroethane	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
1,1,2,2-Tetrachloroethane	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
Tetrachloroethylene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125
Toluene	17200 500	12300 500	60.4 J 100	217 125	U 5.00	257 125	U 125
1,2,3-Trichlorobenzene	U 500	U 500	U 100	U 125	U 5.00	U 125	U 125

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro

Managing Director, Texas

Certificate of Analysis Summary 339467

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Sat Aug-01-09 09:00 am

Report Date: 11-AUG-09

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>	339467-001	339467-002	339467-003	339467-004	339467-005	339467-006
				WATER	Jul-30-09 11:00	Aug-07-09 12:20	Aug-07-09 12:39	RL	U 500	U 500	U 100	U 125	U 5.00	U 125
				WATER	Jul-30-09 13:00	Aug-07-09 12:22	Aug-07-09 13:02	RL	U 500	U 500	U 100	U 125	U 5.00	U 125
				WATER	Jul-30-09 15:45	Aug-07-09 12:34	Aug-07-09 15:18	RL	U 100	U 100	U 100	U 125	U 5.00	U 125
				WATER	Jul-30-09 17:00	Aug-07-09 12:30	Aug-07-09 14:33	RL	U 125	U 125	U 125	U 125	U 5.00	U 125
				WATER	Jul-30-09 00:00	Aug-03-09 16:40	Aug-03-09 19:58	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 125
				WATER	Jul-31-09 11:22	Aug-07-09 12:32	Aug-07-09 14:55	RL	U 125	U 125	U 125	U 125	U 5.00	U 125
VOAs by SW-846 8260B														
1,2,4-Trichlorobenzene									U 500	U 500	U 100	U 125	U 5.00	U 125
1,1,1-Trichloroethane									U 500	U 500	U 100	U 125	U 5.00	U 125
1,1,2-Trichloroethane									U 500	U 500	U 100	U 125	U 5.00	U 125
Trichloroethene									U 500	U 500	U 100	U 125	U 5.00	U 125
Trichlorofluoromethane									U 500	U 500	U 100	U 125	U 5.00	U 125
1,2,3-Trichloropropane									U 500	U 500	U 100	U 125	U 5.00	U 125
1,2,4-Trimethylbenzene									769 500	563 500	86.4 J 100	836 125	U 5.00	830 125
1,3,5-Trimethylbenzene									177 J 500	131 J 500	U 100	185 125	U 5.00	216 125
o-Xylene									3160 500	1930 500	36.8 J 100	2880 125	U 5.00	392 125
m,p-Xylenes									6130 1000	4960 1000	524 200	5810 250	U 10.0	2650 250
Vinyl Acetate									U 5000	U 5000	U 1000	U 1250	U 50.0	U 1250
Vinyl Chloride									U 200	U 200	U 40.0	U 50.0	U 2.00	U 50.0

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Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 339467

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900. S Central Avenue

Date Received in Lab: Sat Aug-01-09 09:00 am

Report Date: 11-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339467-007	339467-008
	Field Id:	GWP-8-58	GWP-9-50 EB
Depth:			
Matrix:	WATER	WATER	
Sampled:	Jul-31-09 14:00	Jul-31-09 15:30	
Extracted:	Aug-07-09 12:36	Aug-03-09 16:42	
Analyzed:	Aug-07-09 15:41	Aug-03-09 20:21	
Units/RL:	ug/L RL	ug/L RL	
Acetone	U 500	U 100	
Benzene	702 25.0	U 5.00	
Bromobenzene	U 25.0	U 5.00	
Bromochloromethane	U 25.0	U 5.00	
Bromodichloromethane	U 25.0	U 5.00	
Bromoform	U 25.0	U 5.00	
Bromomethane	U 25.0	U 5.00	
2-Butanone	U 250	U 50.0	
MTBE	U 25.0	U 5.00	
n-Butylbenzene	U 25.0	U 5.00	
Sec-Butylbenzene	U 25.0	U 5.00	
tert-Butylbenzene	U 25.0	U 5.00	
Carbon Disulfide	U 250	U 50.0	
Carbon Tetrachloride	U 25.0	U 5.00	
Chlorobenzene	U 25.0	U 5.00	
Chloroethane	U 50.0	U 10.0	
Chloroform	U 25.0	U 5.00	
Chloromethane	U 50.0	U 10.0	
2-Chlorotoluene	U 25.0	U 5.00	
4-Chlorotoluene	U 25.0	U 5.00	
p-Cymene (p-Isopropyltoluene)	6.15 J 25.0	U 5.00	
Dibromochloromethane	U 25.0	U 5.00	
1,2-Dibromo-3-Chloropropane	U 25.0	U 5.00	
Dibromomethane	U 25.0	U 5.00	
1,2-Dichlorobenzene	U 25.0	U 5.00	

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Carlos Castro

Managing Director, Texas



Certificate of Analysis Summary 339467

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900. S Central Avenue

Date Received in Lab: Sat Aug-01-09 09:00 am

Report Date: 11-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339467-007	339467-008
	Field Id:	GWP-8-58	GWP-9-50 EB
Depth:			
Matrix:	WATER	WATER	WATER
Sampled:	Jul-31-09 14:00	Jul-31-09 15:30	
Extracted:	Aug-07-09 12:36	Aug-03-09 16:42	
Analyzed:	Aug-07-09 15:41	Aug-03-09 20:21	
Units/RL:	ug/L RL	ug/L RL	RL
1,3-Dichlorobenzene	U 25.0	U 5.00	
1,4-Dichlorobenzene	U 25.0	U 5.00	
Dichlorodifluoromethane	U 25.0	U 5.00	
1,1-Dichloroethane	U 25.0	U 5.00	
1,2-Dichloroethane	U 25.0	U 5.00	
1,1-Dichloroethene	U 25.0	U 5.00	
cis-1,2-Dichloroethene	U 25.0	U 5.00	
trans-1,2-dichloroethene	U 25.0	U 5.00	
1,2-Dichloropropane	U 25.0	U 5.00	
1,3-Dichloropropane	U 25.0	U 5.00	
2,2-Dichloropropane	U 25.0	U 5.00	
1,1-Dichloropropene	U 25.0	U 5.00	
cis-1,3-Dichloropropene	U 25.0	U 5.00	
trans-1,3-dichloropropene	U 25.0	U 5.00	
Ethylbenzene	519 25.0	U 5.00	
Hexachlorobutadiene	U 25.0	U 5.00	
isopropylbenzene	50.1 25.0	U 5.00	
Methylene Chloride	U 25.0	U 5.00	
n-Propylbenzene	41.1 25.0	U 5.00	
Styrene	12.8 J 25.0	U 5.00	
1,1,1,2-Tetrachloroethane	U 25.0	U 5.00	
1,1,1,2,2-Tetrachloroethane	U 25.0	U 5.00	
Tetrachloroethylene	U 25.0	U 5.00	
Toluene	71.5 25.0	U 5.00	
1,2,3-Trichlorobenzene	U 25.0	U 5.00	

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 339467

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Sat Aug-01-09 09:00 am

Report Date: 11-AUG-09

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>
VOAs by SW-846 8260B	339467-007	GWP-8-58		WATER	Jul-31-09 14:00	Aug-07-09 12:36	Aug-07-09 15:41	RL ug/L
	339467-008	GWP-9-50 EB		WATER	Jul-31-09 15:30	Aug-03-09 16:42	Aug-03-09 20:21	RL ug/L
1,2,4-Trichlorobenzene						U	25.0	U 5.00
1,1,1-Trichloroethane						U	25.0	U 5.00
1,1,2-Trichloroethane						U	25.0	U 5.00
Trichloroethene						U	25.0	U 5.00
Trichlorofluoromethane						U	25.0	U 5.00
1,2,3-Trichloropropane						U	25.0	U 5.00
1,2,4-Trimethylbenzene						265	25.0	U 5.00
1,3,5-Trimethylbenzene						68.7	25.0	U 5.00
o-Xylene						422	25.0	U 5.00
m,p-Xylenes						1030	50.0	U 10.0
Vinyl Acetate						U	25.0	U 50.0
Vinyl Chloride						U	10.0	U 2.00

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Carlos Castro

Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : VOAs by SW-846 8260B

Client : URS Corporation-St. Louis

Work Order #: 339467

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-7-58	Jul. 30, 2009	Aug. 1, 2009				Aug.7, 2009	14	8	P
GWP-5-50	Jul. 30, 2009	Aug. 1, 2009				Aug.7, 2009	14	8	P
TB073009	Jul. 30, 2009	Aug. 1, 2009				Aug.3, 2009	14	4	P
GWP-8-50	Jul. 31, 2009	Aug. 1, 2009				Aug.7, 2009	14	7	P
GWP-7-50	Jul. 30, 2009	Aug. 1, 2009				Aug.7, 2009	14	8	P
GWP-8-58	Jul. 31, 2009	Aug. 1, 2009				Aug.7, 2009	14	7	P
GWP-5-58	Jul. 30, 2009	Aug. 1, 2009				Aug.7, 2009	14	8	P
GWP-9-50 EB	Jul. 31, 2009	Aug. 1, 2009				Aug.3, 2009	14	3	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
 - JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900. S Central Avenue

Work Orders : 339467,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 765960

Sample: ICB-BLK / ICB

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/16/09 21:20

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0484	0.0500	97	86-115	
Dibromofluoromethane	0.0461	0.0500	92	86-118	
1,2-Dichloroethane-D4	0.0538	0.0500	108	80-120	
Toluene-D8	0.0493	0.0500	99	88-110	

Lab Batch #: 767569

Sample: 534827-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 12:10

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0518	0.0500	104	70-130	
Dibromofluoromethane	0.0497	0.0500	99	70-130	
1,2-Dichloroethane-D4	0.0503	0.0500	101	70-130	
Toluene-D8	0.0472	0.0500	94	70-130	

Lab Batch #: 767569

Sample: 534827-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 13:05

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0481	0.0500	96	70-130	
Dibromofluoromethane	0.0514	0.0500	103	70-130	
1,2-Dichloroethane-D4	0.0546	0.0500	109	70-130	
Toluene-D8	0.0468	0.0500	94	70-130	

Lab Batch #: 767569

Sample: 339467-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 19:58

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0485	0.0500	97	70-130	
Dibromofluoromethane	0.0508	0.0500	102	70-130	
1,2-Dichloroethane-D4	0.0500	0.0500	100	70-130	
Toluene-D8	0.0467	0.0500	93	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900. S Central Avenue

Work Orders : 339467,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767569

Sample: 339467-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 20:21

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0455	0.0500	91	70-130	
Dibromofluoromethane	0.0532	0.0500	106	70-130	
1,2-Dichloroethane-D4	0.0534	0.0500	107	70-130	
Toluene-D8	0.0466	0.0500	93	70-130	

Lab Batch #: 767569

Sample: 339467-008 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 20:44

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0492	0.0500	98	70-130	
Dibromofluoromethane	0.0514	0.0500	103	70-130	
1,2-Dichloroethane-D4	0.0495	0.0500	99	70-130	
Toluene-D8	0.0492	0.0500	98	70-130	

Lab Batch #: 767569

Sample: 339467-008 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/03/09 21:06

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0481	0.0500	96	70-130	
Dibromofluoromethane	0.0527	0.0500	105	70-130	
1,2-Dichloroethane-D4	0.0518	0.0500	104	70-130	
Toluene-D8	0.0490	0.0500	98	70-130	

Lab Batch #: 767952

Sample: 535046-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 11:18

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0488	0.0500	98	70-130	
Dibromofluoromethane	0.0551	0.0500	110	70-130	
1,2-Dichloroethane-D4	0.0511	0.0500	102	70-130	
Toluene-D8	0.0495	0.0500	99	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900. S Central Avenue

Work Orders : 339467,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767952

Sample: 535046-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 12:08

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0485	0.0500	97	70-130	
Dibromofluoromethane	0.0522	0.0500	104	70-130	
1,2-Dichloroethane-D4	0.0513	0.0500	103	70-130	
Toluene-D8	0.0455	0.0500	91	70-130	

Lab Batch #: 767952

Sample: 339467-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 12:39

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0491	0.0500	98	70-130	
Dibromofluoromethane	0.0547	0.0500	109	70-130	
1,2-Dichloroethane-D4	0.0521	0.0500	104	70-130	
Toluene-D8	0.0470	0.0500	94	70-130	

Lab Batch #: 767952

Sample: 339467-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 13:02

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0493	0.0500	99	70-130	
Dibromofluoromethane	0.0541	0.0500	108	70-130	
1,2-Dichloroethane-D4	0.0520	0.0500	104	70-130	
Toluene-D8	0.0472	0.0500	94	70-130	

Lab Batch #: 767952

Sample: 339467-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 13:25

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0508	0.0500	102	70-130	
Dibromofluoromethane	0.0542	0.0500	108	70-130	
1,2-Dichloroethane-D4	0.0498	0.0500	100	70-130	
Toluene-D8	0.0483	0.0500	97	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900. S Central Avenue

Work Orders : 339467,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767952

Sample: 339467-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 13:47

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0501	0.0500	100	70-130	
Dibromofluoromethane	0.0556	0.0500	111	70-130	
1,2-Dichloroethane-D4	0.0537	0.0500	107	70-130	
Toluene-D8	0.0481	0.0500	96	70-130	

Lab Batch #: 767952

Sample: 339467-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 14:33

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0503	0.0500	101	70-130	
Dibromofluoromethane	0.0528	0.0500	106	70-130	
1,2-Dichloroethane-D4	0.0501	0.0500	100	70-130	
Toluene-D8	0.0467	0.0500	93	70-130	

Lab Batch #: 767952

Sample: 339467-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 14:55

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0484	0.0500	97	70-130	
Dibromofluoromethane	0.0534	0.0500	107	70-130	
1,2-Dichloroethane-D4	0.0536	0.0500	107	70-130	
Toluene-D8	0.0470	0.0500	94	70-130	

Lab Batch #: 767952

Sample: 339467-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 15:18

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0490	0.0500	98	70-130	
Dibromofluoromethane	0.0542	0.0500	108	70-130	
1,2-Dichloroethane-D4	0.0512	0.0500	102	70-130	
Toluene-D8	0.0478	0.0500	96	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900. S Central Avenue

Work Orders : 339467,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767952

Sample: 339467-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 15:41

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0492	0.0500	98	70-130	
Dibromofluoromethane	0.0543	0.0500	109	70-130	
1,2-Dichloroethane-D4	0.0527	0.0500	105	70-130	
Toluene-D8	0.0470	0.0500	94	70-130	

Lab Batch #: 767952

Sample: 339467-003 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 19:10

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0465	0.0500	93	70-130	
Dibromofluoromethane	0.0553	0.0500	111	70-130	
1,2-Dichloroethane-D4	0.0518	0.0500	104	70-130	
Toluene-D8	0.0476	0.0500	95	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: 900. S Central Avenue

Work Order #: 339467

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767569

Sample: 534827-1-BKS

Matrix: Water

Date Analyzed: 08/03/2009

Date Prepared: 08/03/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	574	115	60-140	
Benzene	<1.00	50.0	41.6	83	66-142	
Bromobenzene	<1.00	50.0	41.3	83	75-125	
Bromochloromethane	<1.00	50.0	43.4	87	73-125	
Bromodichloromethane	<1.00	50.0	43.4	87	75-125	
Bromoform	<1.00	50.0	46.4	93	75-125	
Bromomethane	<1.00	50.0	46.4	93	70-130	
2-Butanone	<10.0	500	585	117	60-140	
MTBE	<1.00	50.0	49.5	99	65-135	
n-Butylbenzene	<1.00	50.0	41.1	82	75-125	
Sec-Butylbenzene	<1.00	50.0	40.8	82	75-125	
tert-Butylbenzene	<1.00	50.0	41.3	83	75-125	
Carbon Disulfide	<10.0	500	378	76	60-140	
Carbon Tetrachloride	<1.00	50.0	40.0	80	62-125	
Chlorobenzene	<1.00	50.0	41.2	82	60-133	
Chloroethane	<2.00	50.0	59.9	120	70-130	
Chloroform	<1.00	50.0	42.7	85	74-125	
Chloromethane	<2.00	50.0	43.3	87	70-130	
2-Chlorotoluene	<1.00	50.0	41.8	84	73-125	
4-Chlorotoluene	<1.00	50.0	41.7	83	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	39.9	80	75-125	
Dibromochloromethane	<1.00	50.0	43.1	86	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	46.9	94	59-125	
Dibromomethane	<1.00	50.0	43.5	87	69-127	
1,2-Dichlorobenzene	<1.00	50.0	41.7	83	75-125	
1,3-Dichlorobenzene	<1.00	50.0	41.4	83	75-125	
1,4-Dichlorobenzene	<1.00	50.0	40.6	81	75-125	
Dichlorodifluoromethane	<1.00	50.0	47.8	96	70-130	
1,1-Dichloroethane	<1.00	50.0	44.8	90	72-125	
1,2-Dichloroethane	<1.00	50.0	41.9	84	68-127	
1,1-Dichloroethene	<1.00	50.0	43.5	87	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	43.7	87	75-125	
trans-1,2-dichloroethene	<1.00	50.0	43.6	87	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900. S Central Avenue

Work Order #: 339467

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767569

Sample: 534827-1-BKS

Matrix: Water

Date Analyzed: 08/03/2009

Date Prepared: 08/03/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	46.5	93	74-125	
1,3-Dichloropropane	<1.00	50.0	43.8	88	75-125	
2,2-Dichloropropane	<1.00	50.0	43.2	86	75-125	
1,1-Dichloropropane	<1.00	50.0	41.4	83	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	45.8	92	74-125	
trans-1,3-dichloropropene	<1.00	50.0	42.6	85	66-125	
Ethylbenzene	<1.00	50.0	43.3	87	75-125	
Hexachlorobutadiene	<1.00	50.0	40.6	81	75-125	
isopropylbenzene	<1.00	50.0	42.4	85	75-125	
Methylene Chloride	<1.00	50.0	42.2	84	75-125	
n-Propylbenzene	<1.00	50.0	41.9	84	75-125	
Styrene	<1.00	50.0	45.1	90	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	42.6	85	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	52.1	104	74-125	
Tetrachloroethylene	<1.00	50.0	36.2	72	71-125	
Toluene	<1.00	50.0	40.1	80	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	45.8	92	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	42.4	85	75-135	
1,1,1-Trichloroethane	<1.00	50.0	40.3	81	75-125	
1,1,2-Trichloroethane	<1.00	50.0	43.8	88	75-127	
Trichloroethene	<1.00	50.0	39.8	80	62-137	
Trichlorofluoromethane	<1.00	50.0	44.7	89	67-125	
1,2,3-Trichloropropane	<1.00	50.0	48.9	98	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	40.9	82	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	41.6	83	70-125	
o-Xylene	<1.00	50.0	42.0	84	75-125	
m,p-Xylenes	<2.00	100	84.6	85	75-125	
Vinyl Acetate	<10.0	500	511	102	60-140	
Vinyl Chloride	<0.400	50.0	45.3	91	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900. S Central Avenue

Work Order #: 339467

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767952

Sample: 535046-1-BKS

Matrix: Water

Date Analyzed: 08/07/2009

Date Prepared: 08/07/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	602	120	60-140	
Benzene	<1.00	50.0	49.0	98	66-142	
Bromobenzene	<1.00	50.0	45.4	91	75-125	
Bromochloromethane	<1.00	50.0	56.1	112	73-125	
Bromodichloromethane	<1.00	50.0	52.6	105	75-125	
Bromoform	<1.00	50.0	52.2	104	75-125	
Bromomethane	<1.00	50.0	61.7	123	70-130	
2-Butanone	<10.0	500	580	116	60-140	
MTBE	<1.00	50.0	59.0	118	65-135	
n-Butylbenzene	<1.00	50.0	48.7	97	75-125	
Sec-Butylbenzene	<1.00	50.0	47.8	96	75-125	
tert-Butylbenzene	<1.00	50.0	48.0	96	75-125	
Carbon Disulfide	<10.0	500	495	99	60-140	
Carbon Tetrachloride	<1.00	50.0	51.6	103	62-125	
Chlorobenzene	<1.00	50.0	48.3	97	60-133	
Chloroethane	<2.00	50.0	62.3	125	70-130	
Chloroform	<1.00	50.0	56.7	113	74-125	
Chloromethane	<2.00	50.0	55.3	111	70-130	
2-Chlorotoluene	<1.00	50.0	47.1	94	73-125	
4-Chlorotoluene	<1.00	50.0	47.2	94	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	47.2	94	75-125	
Dibromochloromethane	<1.00	50.0	51.5	103	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	49.9	100	59-125	
Dibromomethane	<1.00	50.0	50.7	101	69-127	
1,2-Dichlorobenzene	<1.00	50.0	48.0	96	75-125	
1,3-Dichlorobenzene	<1.00	50.0	46.4	93	75-125	
1,4-Dichlorobenzene	<1.00	50.0	45.8	92	75-125	
Dichlorodifluoromethane	<1.00	50.0	61.0	122	70-130	
1,1-Dichloroethane	<1.00	50.0	58.3	117	72-125	
1,2-Dichloroethane	<1.00	50.0	52.4	105	68-127	
1,1-Dichloroethene	<1.00	50.0	54.5	109	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	55.9	112	75-125	
trans-1,2-dichloroethene	<1.00	50.0	55.5	111	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900. S Central Avenue

Work Order #: 339467

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767952

Sample: 535046-1-BKS

Matrix: Water

Date Analyzed: 08/07/2009

Date Prepared: 08/07/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	53.6	107	74-125	
1,3-Dichloropropane	<1.00	50.0	47.5	95	75-125	
2,2-Dichloropropane	<1.00	50.0	63.4	127	75-125	H
1,1-Dichloropropene	<1.00	50.0	51.8	104	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	47.4	95	74-125	
trans-1,3-dichloropropene	<1.00	50.0	46.4	93	66-125	
Ethylbenzene	<1.00	50.0	49.9	100	75-125	
Hexachlorobutadiene	<1.00	50.0	46.3	93	75-125	
isopropylbenzene	<1.00	50.0	51.2	102	75-125	
Methylene Chloride	<1.00	50.0	55.1	110	75-125	
n-Propylbenzene	<1.00	50.0	47.1	94	75-125	
Styrene	<1.00	50.0	52.0	104	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	53.9	108	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	55.5	111	74-125	
Tetrachloroethylene	<1.00	50.0	45.5	91	71-125	
Toluene	<1.00	50.0	47.5	95	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	49.0	98	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	47.2	94	75-135	
1,1,1-Trichloroethane	<1.00	50.0	55.0	110	75-125	
1,1,2-Trichloroethane	<1.00	50.0	48.6	97	75-127	
Trichloroethene	<1.00	50.0	47.4	95	62-137	
Trichlorofluoromethane	<1.00	50.0	55.6	111	67-125	
1,2,3-Trichloropropane	<1.00	50.0	52.5	105	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	47.6	95	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	47.5	95	70-125	
o-Xylene	<1.00	50.0	53.2	106	75-125	
m,p-Xylenes	<2.00	100	99.0	99	75-125	
Vinyl Acetate	<10.0	500	588	118	60-140	
Vinyl Chloride	<0.400	50.0	58.0	116	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: 900. S Central Avenue

Work Order #: 339467

Lab Batch ID: 767569

Date Analyzed: 08/03/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 339467-008 S

Date Prepared: 08/03/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acetone	<100	500	199	40	500	237	47	17	60-140	21	X
Benzene	<5.00	50.0	36.9	74	50.0	40.8	82	10	66-142	21	
Bromobenzene	<5.00	50.0	38.3	77	50.0	41.3	83	8	75-125	20	
Bromochloromethane	<5.00	50.0	43.4	87	50.0	49.9	100	14	73-125	20	
Bromodichloromethane	<5.00	50.0	43.1	86	50.0	48.0	96	11	75-125	20	
Bromoform	<5.00	50.0	39.1	78	50.0	45.5	91	15	75-125	20	
Bromomethane	<5.00	50.0	49.2	98	50.0	56.5	113	14	70-130	20	
2-Butanone	<50.0	500	302	60	500	329	66	9	60-140	20	
MTBE	<5.00	50.0	51.8	104	50.0	61.3	123	17	65-135	20	
n-Butylbenzene	<5.00	50.0	39.3	79	50.0	45.8	92	15	75-125	20	
Sec-Butylbenzene	<5.00	50.0	39.2	78	50.0	44.5	89	13	75-125	20	
tert-Butylbenzene	<5.00	50.0	39.3	79	50.0	44.5	89	12	75-125	20	
Carbon Disulfide	<50.0	500	269	54	500	321	64	18	60-140	20	X
Carbon Tetrachloride	<5.00	50.0	38.7	77	50.0	45.1	90	15	62-125	20	
Chlorobenzene	<5.00	50.0	37.8	76	50.0	41.6	83	10	60-133	21	
Chloroethane	<10.0	50.0	56.7	113	50.0	64.1	128	12	70-130	20	
Chloroform	<5.00	50.0	41.4	83	50.0	49.1	98	17	74-125	20	
Chloromethane	<10.0	50.0	58.1	116	50.0	67.0	134	14	70-130	20	X
2-Chlorotoluene	<5.00	50.0	36.5	73	50.0	41.2	82	12	73-125	20	
4-Chlorotoluene	<5.00	50.0	37.3	75	50.0	41.7	83	11	74-125	20	
p-Cymene (p-Isopropyltoluene)	<5.00	50.0	39.7	79	50.0	44.4	89	11	75-125	20	
Dibromochloromethane	<5.00	50.0	35.4	71	50.0	38.5	77	8	73-125	20	X
1,2-Dibromo-3-Chloropropane	<5.00	50.0	38.4	77	50.0	44.9	90	16	59-125	28	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference RPD = 200*((C-F)/(C+F))
 ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Project Name: 900. S Central Avenue

Work Order #: 339467

Lab Batch ID: 767569

Date Analyzed: 08/03/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Water

Analyst: ZHO

QC- Sample ID: 339467-008 S

Date Prepared: 08/03/2009

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
VOAs by SW-846 8260B											
Dibromomethane	<5.00	50.0	39.2	78	50.0	43.6	87	11	69-127	23	
1,2-Dichlorobenzene	<5.00	50.0	38.8	78	50.0	44.5	89	14	75-125	20	
1,3-Dichlorobenzene	<5.00	50.0	40.9	82	50.0	45.3	91	10	75-125	20	
1,4-Dichlorobenzene	<5.00	50.0	35.2	70	50.0	39.7	79	12	75-125	20	X
Dichlorodifluoromethane	<5.00	50.0	84.4	169	50.0	94.6	189	11	70-130	23	X
1,1-Dichloroethane	<5.00	50.0	43.9	88	50.0	52.5	105	18	72-125	20	
1,2-Dichloroethane	<5.00	50.0	37.0	74	50.0	42.7	85	14	68-127	20	
1,1-Dichloroethene	<5.00	50.0	40.6	81	50.0	46.6	93	14	59-172	22	
cis-1,2-Dichloroethene	<5.00	50.0	44.4	89	50.0	51.7	103	15	75-125	20	
trans-1,2-dichloroethene	<5.00	50.0	35.9	72	50.0	42.2	84	16	75-125	20	X
1,2-Dichloropropane	<5.00	50.0	45.1	90	50.0	48.9	98	8	74-125	20	
1,3-Dichloropropane	<5.00	50.0	41.7	83	50.0	44.3	89	6	75-125	20	
2,2-Dichloropropane	<5.00	50.0	41.4	83	50.0	51.2	102	21	75-125	20	F
1,1-Dichloropropene	<5.00	50.0	36.2	72	50.0	41.2	82	13	75-125	20	X
cis-1,3-Dichloropropene	<5.00	50.0	36.6	73	50.0	39.0	78	6	74-125	20	X
trans-1,3-dichloropropene	<5.00	50.0	35.2	70	50.0	37.9	76	7	66-125	20	
Ethylbenzene	<5.00	50.0	39.9	80	50.0	43.5	87	9	75-125	20	
Hexachlorobutadiene	<5.00	50.0	34.9	70	50.0	40.2	80	14	75-125	20	X
isopropylbenzene	<5.00	50.0	40.6	81	50.0	46.0	92	12	75-125	20	
Methylene Chloride	<5.00	50.0	40.6	81	50.0	46.8	94	14	75-125	35	
n-Propylbenzene	<5.00	50.0	38.1	76	50.0	42.9	86	12	75-125	20	
Styrene	<5.00	50.0	44.3	89	50.0	47.5	95	7	75-125	51	
1,1,1,2-Tetrachloroethane	<5.00	50.0	42.0	84	50.0	48.4	97	14	72-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference RPD = 200*(C-F)/(C+F)
 ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQ, = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries

Project Name: 900. S Central Avenue



Work Order #: 339467

Lab Batch ID: 767569

Date Analyzed: 08/03/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 339467-008 S

Date Prepared: 08/03/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<5.00	50.0	44.9	90	50.0	53.0	106	17	74-125	31	
Tetrachloroethylene	<5.00	50.0	34.7	69	50.0	38.7	77	11	71-125	20	X
Toluene	<5.00	50.0	34.1	68	50.0	38.0	76	11	59-139	21	
1,2,3-Trichlorobenzene	<5.00	50.0	37.5	75	50.0	46.1	92	21	75-137	20	F
1,2,4-Trichlorobenzene	<5.00	50.0	35.9	72	50.0	43.3	87	19	75-135	20	X
1,1,1-Trichloroethane	<5.00	50.0	41.9	84	50.0	50.0	100	18	75-125	20	
1,1,2-Trichloroethane	<5.00	50.0	40.4	81	50.0	45.9	92	13	75-127	20	
Trichloroethene	<5.00	50.0	37.9	76	50.0	41.0	82	8	62-137	24	
Trichlorofluoromethane	<5.00	50.0	54.8	110	50.0	61.2	122	11	67-125	20	
1,2,3-Trichloropropane	<5.00	50.0	45.9	92	50.0	49.5	99	8	75-125	20	
1,2,4-Trimethylbenzene	<5.00	50.0	37.9	76	50.0	42.3	85	11	75-125	20	
1,3,5-Trimethylbenzene	<5.00	50.0	36.8	74	50.0	41.3	83	12	70-125	20	
o-Xylene	<5.00	50.0	37.0	74	50.0	42.2	84	13	75-125	20	X
m,p-Xylenes	<10.0	100	76.9	77	100	87.6	88	13	75-125	20	
Vinyl Acetate	<50.0	500	295	59	500	336	67	13	60-140	20	X
Vinyl Chloride	<2.00	50.0	60.1	120	50.0	67.2	134	11	75-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
 ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Project Name: 900. S Central Avenue

Work Order #: 339467

Lab Batch ID: 767952

Date Analyzed: 08/07/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Water

Analyst: ZHO

QC- Sample ID: 339467-001 S

Date Prepared: 08/07/2009

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acetone	<10000	50000	20800	42	50000	21400	43	3	60-140	21	X
Benzene	10100	5000	13400	66	5000	13300	64	1	66-142	21	X
Bromobenzene	<500	5000	3640	73	5000	3650	73	0	75-125	20	X
Bromochloromethane	<500	5000	4790	96	5000	4890	98	2	73-125	20	
Bromodichloromethane	<500	5000	4250	85	5000	4520	90	6	75-125	20	
Bromoform	<500	5000	4050	81	5000	4350	87	7	75-125	20	
Bromomethane	<500	5000	5050	101	5000	5630	113	11	70-130	20	
2-Butanone	<5000	50000	31700	63	50000	31700	63	0	60-140	20	
MTBE	<500	5000	5380	108	5000	5670	113	5	65-135	20	
n-Butylbenzene	<500	5000	3460	69	5000	3540	71	2	75-125	20	X
Sec-Butylbenzene	<500	5000	3400	68	5000	3350	67	1	75-125	20	X
tert-Butylbenzene	<500	5000	3410	68	5000	3460	69	1	75-125	20	X
Carbon Disulfide	<5000	50000	36200	72	50000	37800	76	4	60-140	20	
Carbon Tetrachloride	<500	5000	3510	70	5000	3780	76	7	62-125	20	
Chlorobenzene	<500	5000	3600	72	5000	3730	75	4	60-133	21	
Chloroethane	<1000	5000	5450	109	5000	6160	123	12	70-130	20	
Chloroform	<500	5000	3990	80	5000	4200	84	5	74-125	20	
Chloromethane	<1000	5000	5920	118	5000	6460	129	9	70-130	20	
2-Chlorotoluene	<500	5000	3340	67	5000	3350	67	0	73-125	20	X
4-Chlorotoluene	<500	5000	3540	71	5000	3600	72	2	74-125	20	X
p-Cymene (p-Isopropyltoluene)	<500	5000	3520	70	5000	3540	71	1	75-125	20	X
Dibromochloromethane	<500	5000	3590	72	5000	3740	75	4	73-125	20	X
1,2-Dibromo-3-Chloropropane	<500	5000	4030	81	5000	4460	89	10	59-125	28	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, I = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = Sec Narrative, EQ, = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900. S Central Avenue



Work Order #: 339467

Lab Batch ID: 767952

Date Analyzed: 08/07/2009

Reporting Units: ug/L

QC- Sample ID: 339467-001 S

Date Prepared: 08/07/2009

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Water

Analyst: ZHO

Analytes	Parent Sample Result [A]	Spiked Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spiked Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
VOAs by SW-846 8260B											
Dibromomethane	<500	5000	4110	82	5000	4310	86	5	69-127	23	
1,2-Dichlorobenzene	<500	5000	3760	75	5000	3810	76	1	75-125	20	
1,3-Dichlorobenzene	<500	5000	3870	77	5000	3870	77	0	75-125	20	
1,4-Dichlorobenzene	<500	5000	3370	67	5000	3500	70	4	75-125	20	X
Dichlorodifluoromethane	<500	5000	8840	177	5000	9480	190	7	70-130	23	X
1,1-Dichloroethane	<500	5000	4200	84	5000	4390	88	4	72-125	20	
1,2-Dichloroethane	<500	5000	4420	88	5000	4510	90	2	68-127	20	
1,1-Dichloroethene	<500	5000	3810	76	5000	4130	83	8	59-172	22	
cis-1,2-Dichloroethene	<500	5000	4370	87	5000	4460	89	2	75-125	20	
trans-1,2-dichloroethene	<500	5000	3710	74	5000	3800	76	2	75-125	20	X
1,2-Dichloropropane	<500	5000	4170	83	5000	4400	88	5	74-125	20	
1,3-Dichloropropane	<500	5000	4270	85	5000	4350	87	2	75-125	20	
2,2-Dichloropropane	<500	5000	4010	80	5000	4240	85	6	75-125	20	
1,1-Dichloropropene	<500	5000	3590	72	5000	3790	76	5	75-125	20	X
cis-1,3-Dichloropropene	<500	5000	3970	79	5000	3980	80	0	74-125	20	
trans-1,3-dichloropropene	<500	5000	3710	74	5000	3690	74	1	66-125	20	
Ethylbenzene	2980	5000	6670	74	5000	6630	73	1	75-125	20	X
Hexachlorobutadiene	<500	5000	3100	62	5000	3080	62	1	75-125	20	X
isopropylbenzene	<500	5000	3580	72	5000	3700	74	3	75-125	20	X
Methylene Chloride	415	5000	4360	79	5000	4580	83	5	75-125	35	
n-Propylbenzene	132	5000	3520	68	5000	3550	68	1	75-125	20	X
Styrene	<500	5000	4250	85	5000	4410	88	4	75-125	51	
1,1,1,2-Tetrachloroethane	<500	5000	3770	75	5000	3970	79	5	72-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900. S Central Avenue



Work Order # : 339467

Lab Batch ID: 767952

Date Analyzed: 08/07/2009

Reporting Units: ug/L

QC-Sample ID: 339467-001 S

Date Prepared: 08/07/2009

Batch #: 1 Matrix: Water

Analyst: ZHO

Project ID: Route 111 & Rand Ave Vicinity/21561979

VOAs by SW-846 8260B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<500	5000	4280	86	5000	4360	87	2	74-125	31	
Tetrachloroethylene	<500	5000	3320	66	5000	3350	67	1	71-125	20	X
Toluene	17200	5000	21000	76	5000	20400	64	3	59-139	21	
1,2,3-Trichlorobenzene	<500	5000	3960	79	5000	4110	82	4	75-137	20	
1,2,4-Trichlorobenzene	<500	5000	3600	72	5000	3800	76	5	75-135	20	X
1,1,1-Trichloroethane	<500	5000	3870	77	5000	4010	80	4	75-125	20	
1,1,2-Trichloroethane	<500	5000	4080	82	5000	4080	82	0	75-127	20	
Trichloroethene	<500	5000	3550	71	5000	3720	74	5	62-137	24	
Trichlorofluoromethane	<500	5000	5600	112	5000	6190	124	10	67-125	20	
1,2,3-Trichloropropane	<500	5000	4340	87	5000	4510	90	4	75-125	20	
1,2,4-Trimethylbenzene	769	5000	4350	72	5000	4390	72	1	75-125	20	X
1,3,5-Trimethylbenzene	177	5000	3660	70	5000	3660	70	0	70-125	20	
o-Xylene	3160	5000	6680	70	5000	6710	71	0	75-125	20	X
m,p-Xylenes	6130	10000	13300	72	10000	13500	74	1	75-125	20	X
Vinyl Acetate	<5000	50000	32000	64	50000	33100	66	3	60-140	20	
Vinyl Chloride	<200	5000	6010	120	5000	6500	130	8	75-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Prelogin / Nonconformance Report - Sample Log-In

Client: URS
Date/Time: 08/01/09
Lab ID #: 339467
Initials: [Signature]

[Signature]

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No. <u>896</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>61</u> lbs <u>4.7</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 339558

Reviewer: Tony Sedlacek

Date Reviewed: 12/29/2009

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-9-50	GWP-9-58
GWP-10-50	GWP-10-58

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative indicated that no problems or discrepancies were encountered.

The cooler receipt form indicated that the samples were received by the laboratory at 1.3 °C and outside the 4 °C ± 2 °C temperature range criteria. Samples were received by the laboratory in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

Yes

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 339558

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

05-AUG-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Houston - Dallas - San Antonio - Tampa - Miami - Midland - Corpus Christi - Atlanta - Latin America



05-AUG-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **339558**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 339558. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 339558 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Sample Cross Reference 339558



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-9-50	W	Aug-03-09 10:36		339558-001
GWP-9-58	W	Aug-03-09 12:00		339558-002
GWP-10-50	W	Aug-03-09 15:50		339558-003
GWP-10-58	W	Aug-03-09 17:15		339558-004

CASE NARRATIVE



Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic

Report Date: 05-AUG-09

Work Order Number: 339558

Date Received: 08/04/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-767677 SVOCs by SW-846 8270C

None

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Tue Aug-04-09 08:45 am

Report Date: 05-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339558-001	339558-002	339558-003	339558-004
	Field Id:	GWP-9-50	GWP-9-58	GWP-10-50	GWP-10-58
Depth:					
Matrix:	WATER	WATER	WATER	WATER	WATER
Sampled:	Aug-03-09 10:36	Aug-03-09 12:00	Aug-03-09 15:50	Aug-03-09 17:15	
Extracted:	Aug-04-09 13:09	Aug-04-09 13:12	Aug-04-09 13:15	Aug-04-09 13:18	
Analyzed:	Aug-05-09 11:32	Aug-05-09 12:10	Aug-05-09 12:48	Aug-05-09 13:26	
Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	RL
Acenaphthene	U 0.005	0.003 J 0.005	U 0.005	U 0.005	U 0.005
Acenaphthylene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Aniline (Phenylamine, Aminobenzene)	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020
Anthracene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(a)anthracene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(a)pyrene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(b)fluoranthene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(k)fluoranthene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(g,h,i)perylene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Benzoic Acid	U 0.030	U 0.030	U 0.031	U 0.030	U 0.030
Benzyl Butyl Phthalate	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
bis(2-chloroethoxy) methane	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
bis(2-chloroethyl) ether	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
bis(2-chloroisopropyl) ether	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
bis(2-ethylhexyl) phthalate	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
4-Bromophenyl-phenylether	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
4-chloro-3-methylphenol	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
4-Chloroaniline	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020
2-Chloronaphthalene	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
2-Chlorophenol	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
4-Chlorophenyl Phenyl Ether	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
Chrysene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Dibenz(a,h)anthracene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Dibenzofuran	U 0.010	0.003 J 0.010	U 0.010	U 0.010	U 0.010
di-n-Butyl Phthalate	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 339558

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Tue Aug-04-09 08:45 am

Report Date: 05-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	339558-001	339558-002	339558-003	339558-004
	GWP-9-50	GWP-9-50	GWP-9-58	GWP-10-50	GWP-10-58	GWP-10-58	GWP-10-58	mg/L	mg/L	mg/L	mg/L	mg/L
	Aug-03-09 10:36	Aug-04-09 13:09	Aug-04-09 13:12	Aug-03-09 15:50	Aug-03-09 12:00	Aug-04-09 13:15	Aug-04-09 13:18	RL	RL	RL	RL	RL
SVOAs by SW-846 8270C	Aug-05-09 11:32	Aug-05-09 12:10	Aug-05-09 12:48	Aug-03-09 17:15	Aug-04-09 13:18	Aug-05-09 13:26						
3,3-Dichlorobenzidine	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
2,4-Dichlorophenol	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
Diethyl Phthalate	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Dimethyl Phthalate	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
2,4-Dimethylphenol	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
4,6-dinitro-2-methyl phenol	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
2,4-Dinitrophenol	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
2,4-Dinitrotoluene	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
2,6-Dinitrotoluene	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
di-n-Octyl Phthalate	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Fluoranthene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Fluorene	0.001 J 0.005	0.003 J 0.005	0.003 J 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Hexachlorobenzene	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
Hexachlorocyclopentadiene	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
Hexachloroethane	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
Indeno(1,2,3-c,d)Pyrene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Isophorone	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
2-Methylnaphthalene	0.003 J 0.005	0.035 0.005	0.035 0.005	0.025 0.005	0.035 0.005	0.025 0.005	0.027 0.005	0.027 0.005	0.027 0.005	0.027 0.005	0.027 0.005	0.027 0.005
2-methylphenol	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
3&4-Methylphenol	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
Naphthalene	0.003 J 0.005	0.072 0.005	0.072 0.005	0.075 0.005	0.072 0.005	0.075 0.005	0.146 D 0.050	0.146 D 0.050	0.146 D 0.050	0.146 D 0.050	0.146 D 0.050	0.146 D 0.050
2-Nitroaniline	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
3-Nitroaniline	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010
4-Nitroaniline	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020	U 0.020
Nitrobenzene	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010	U 0.010

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 339558

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Tue Aug-04-09 08:45 am

Report Date: 05-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	339558-001	339558-002	339558-003	339558-004
	Extracted:	Analyzed:	Units/RL:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SVOAs by SW-846 8270C	Aug-04-09 13:09	Aug-04-09 13:12	U	0.010	U	0.010	U	0.010	U
	Aug-05-09 11:32	Aug-05-09 12:10	U	0.010	U	0.010	U	0.010	U
2-Nitrophenol									
4-Nitrophenol									
N-Nitrosodi-n-Propylamine									
N-Nitrosodiphenylamine									
Pentachlorophenol									
Phenanthrene	0.004 J	0.006	0.005						
Phenol	0.002 J	0.010	0.010						
Pyrene	U	0.005	0.005						
Pyridine	U	0.010	0.010						
2,4,5-Trichlorophenol	U	0.010	0.010						
2,4,6-Trichlorophenol	U	0.010	0.010						

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Carlos Castro

Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : SVOAs by SW-846 8270C

Client : URS Corporation-St. Louis

Work Order #: 339558

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-9-50	Aug. 3, 2009	Aug. 4, 2009	Aug. 4, 2009	7	1	Aug.5, 2009	40	1	P
GWP-10-58	Aug. 3, 2009	Aug. 4, 2009	Aug. 4, 2009	7	1	Aug.5, 2009	40	1	P
GWP-9-58	Aug. 3, 2009	Aug. 4, 2009	Aug. 4, 2009	7	1	Aug.5, 2009	40	1	P
GWP-10-50	Aug. 3, 2009	Aug. 4, 2009	Aug. 4, 2009	7	1	Aug.5, 2009	40	1	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339558,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767677

Sample: 534892-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/05/09 09:39

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.045	0.050	90	43-116	
2-Fluorophenol	0.028	0.050	56	21-100	
Nitrobenzene-d5	0.041	0.050	82	35-114	
Phenol-d6	0.015	0.050	30	10-94	
Terphenyl-D14	0.048	0.050	96	33-141	
2,4,6-Tribromophenol	0.029	0.050	58	10-123	

Lab Batch #: 767677

Sample: 534892-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/05/09 10:16

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.045	0.050	90	43-116	
2-Fluorophenol	0.029	0.050	58	21-100	
Nitrobenzene-d5	0.044	0.050	88	35-114	
Phenol-d6	0.020	0.050	40	10-94	
Terphenyl-D14	0.049	0.050	98	33-141	
2,4,6-Tribromophenol	0.037	0.050	74	10-123	

Lab Batch #: 767677

Sample: 534892-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/05/09 10:54

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.046	0.050	92	43-116	
2-Fluorophenol	0.030	0.050	60	21-100	
Nitrobenzene-d5	0.044	0.050	88	35-114	
Phenol-d6	0.021	0.050	42	10-94	
Terphenyl-D14	0.050	0.050	100	33-141	
2,4,6-Tribromophenol	0.037	0.050	74	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339558,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767677

Sample: 339558-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/05/09 11:32

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.043	0.051	84	43-116	
2-Fluorophenol	0.023	0.051	45	21-100	
Nitrobenzene-d5	0.041	0.051	80	35-114	
Phenol-d6	0.015	0.051	29	10-94	
Terphenyl-D14	0.044	0.051	86	33-141	
2,4,6-Tribromophenol	0.040	0.051	78	10-123	

Lab Batch #: 767677

Sample: 339558-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/05/09 12:10

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.042	0.050	84	43-116	
2-Fluorophenol	0.021	0.050	42	21-100	
Nitrobenzene-d5	0.042	0.050	84	35-114	
Phenol-d6	0.014	0.050	28	10-94	
Terphenyl-D14	0.045	0.050	90	33-141	
2,4,6-Tribromophenol	0.043	0.050	86	10-123	

Lab Batch #: 767677

Sample: 339558-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/05/09 12:48

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.045	0.051	88	43-116	
2-Fluorophenol	0.028	0.051	55	21-100	
Nitrobenzene-d5	0.034	0.051	67	35-114	
Phenol-d6	0.016	0.051	31	10-94	
Terphenyl-D14	0.046	0.051	90	33-141	
2,4,6-Tribromophenol	0.045	0.051	88	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339558,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767677

Sample: 339558-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/05/09 13:26

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.042	0.050	84	43-116	
2-Fluorophenol	0.033	0.050	66	21-100	
Nitrobenzene-d5	0.039	0.050	78	35-114	
Phenol-d6	0.012	0.050	24	10-94	
Terphenyl-D14	0.043	0.050	86	33-141	
2,4,6-Tribromophenol	0.042	0.050	84	10-123	

Lab Batch #: 767677

Sample: 339558-004 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/05/09 14:04

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.046	0.050	92	43-116	
2-Fluorophenol	0.042	0.050	84	21-100	
Nitrobenzene-d5	0.045	0.050	90	35-114	
Phenol-d6	0.013	0.050	26	10-94	
Terphenyl-D14	0.046	0.050	92	33-141	
2,4,6-Tribromophenol	0.037	0.050	74	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vicinity/21561979
Date Analyzed: 08/05/2009
Matrix: Water

Work Order #: 339558
Analyst: KAN
Lab Batch ID: 767677
Sample: 534892-1-BKS
Date Prepared: 08/04/2009
Batch #: 1

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

SVOAs by SW-846 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acenaphthene	<0.001	0.050	0.042	84	0.05	0.043	86	2	27-132	31	
Acenaphthylene	<0.001	0.050	0.042	84	0.05	0.044	88	5	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.001	0.050	0.042	84	0.05	0.044	88	5	5-115	25	
Anthracene	<0.001	0.050	0.041	82	0.05	0.043	86	5	47-145	25	
Benzo(a)anthracene	<0.001	0.050	0.041	82	0.05	0.044	88	7	33-143	25	
Benzo(a)pyrene	<0.001	0.050	0.046	92	0.05	0.048	96	4	65-135	25	
Benzo(b)fluoranthene	<0.001	0.050	0.044	88	0.05	0.048	96	9	24-159	25	
Benzo(k)fluoranthene	<0.001	0.050	0.045	90	0.05	0.046	92	2	25-125	25	
Benzo(g,h,i)perylene	<0.001	0.050	0.043	86	0.05	0.045	90	5	65-135	25	
Benzoic Acid	<0.009	0.150	0.084	56	0.15	0.096	64	13	30-115	40	
Benzyl Butyl Phthalate	<0.001	0.050	0.048	96	0.05	0.050	100	4	65-135	25	
bis(2-chloroethoxy) methane	<0.001	0.050	0.039	78	0.05	0.039	78	0	54-188	25	
bis(2-chloroethyl) ether	<0.001	0.050	0.037	74	0.05	0.038	76	3	65-135	25	
bis(2-chloroisopropyl) ether	<0.001	0.050	0.035	70	0.05	0.035	70	0	65-135	25	
bis(2-ethylhexyl) phthalate	<0.001	0.050	0.040	80	0.05	0.042	84	5	8-158	25	
4-Bromophenyl-phenylether	<0.001	0.050	0.042	84	0.05	0.044	88	5	65-135	25	
4-chloro-3-methylphenol	<0.001	0.050	0.044	88	0.05	0.048	96	9	16-129	33	
4-Chloroaniline	<0.001	0.050	0.057	114	0.05	0.060	120	5	9-128	25	
2-Chloronaphthalene	<0.001	0.050	0.042	84	0.05	0.043	86	2	65-135	25	
2-ChlorophenoI	<0.001	0.050	0.039	78	0.05	0.040	80	3	16-116	40	

Relative Percent Difference RPD = $200 * [(C-F) / (C+F)]$
 Blank Spike Recovery [D] = $100 * (C) / [B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$
 All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 339558

Analyst: KAN

Lab Batch ID: 767677

Sample: 534892-1-BKS

Date Prepared: 08/04/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/05/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
	4-Chlorophenyl Phenyl Ether	<0.001	0.050	0.042	84	0.05	0.044	88	5	65-135	25	
	Chrysene	<0.001	0.050	0.045	90	0.05	0.048	96	6	65-135	25	
	Dibenz(a,h)anthracene	<0.001	0.050	0.043	86	0.05	0.045	90	5	50-125	25	
	Dibenzofuran	<0.001	0.050	0.043	86	0.05	0.045	90	5	52-125	25	
	di-n-Butyl Phthalate	<0.003	0.050	0.040	80	0.05	0.042	84	5	49-135	50	
	3,3-Dichlorobenzidine	<0.002	0.050	0.053	106	0.05	0.052	104	2	12-147	25	
	2,4-Dichlorophenol	<0.001	0.050	0.048	96	0.05	0.050	100	4	65-135	25	
	Diethyl Phthalate	<0.001	0.050	0.041	82	0.05	0.043	86	5	37-125	50	
	Dimethyl Phthalate	<0.001	0.050	0.042	84	0.05	0.045	90	7	25-175	50	
	2,4-Dimethylphenol	<0.001	0.050	0.048	96	0.05	0.051	102	6	32-119	25	
	4,6-dinitro-2-methyl phenol	<0.001	0.050	0.039	78	0.05	0.043	86	10	2-181	25	
	2,4-Dinitrophenol	<0.001	0.050	0.039	78	0.05	0.041	82	5	65-135	25	
	2,4-Dinitrotoluene	<0.001	0.050	0.042	84	0.05	0.045	90	7	22-135	38	
	2,6-Dinitrotoluene	<0.001	0.050	0.041	82	0.05	0.043	86	5	49-122	38	
	di-n-Octyl Phthalate	<0.001	0.050	0.042	84	0.05	0.045	90	7	43-134	50	
	Fluoranthene	<0.001	0.050	0.040	80	0.05	0.042	84	5	47-125	25	
	Fluorene	<0.001	0.050	0.042	84	0.05	0.045	90	7	48-139	25	
	Hexachlorobenzene	<0.001	0.050	0.042	84	0.05	0.044	88	5	46-133	25	
	Hexachlorocyclopentadiene	<0.001	0.050	0.040	80	0.05	0.042	84	5	41-125	25	
	Hexachloroethane	<0.001	0.050	0.037	74	0.05	0.039	78	5	25-153	25	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
 Blank Spike Recovery [D] = 100*(C)/[B]
 Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
 All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 339558

Analyst: KAN

Lab Batch ID: 767677

Sample: 534892-1-BKS

Date Prepared: 08/04/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/05/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Indeno(1,2,3-c,d)Pyrene		<0.001	0.050	0.045	90	0.05	0.047	94	4	27-160	25	
Isophorone		<0.001	0.050	0.051	102	0.05	0.053	106	4	26-175	25	
2-Methylnaphthalene		<0.001	0.050	0.049	98	0.05	0.051	102	4	25-175	25	
2-methylphenol		<0.001	0.050	0.038	76	0.05	0.039	78	3	14-176	25	
3&4-Methylphenol		<0.002	0.100	0.076	76	0.1	0.080	80	5	14-176	25	
Naphthalene		<0.001	0.050	0.043	86	0.05	0.044	88	2	26-175	25	
2-Nitroaniline		<0.001	0.050	0.039	78	0.05	0.041	82	5	65-135	25	
3-Nitroaniline		<0.002	0.050	0.049	98	0.05	0.051	102	4	65-135	25	
4-Nitroaniline		<0.001	0.050	0.050	100	0.05	0.051	102	2	65-135	25	
Nitrobenzene		<0.001	0.050	0.041	82	0.05	0.042	84	2	65-135	25	
2-Nitrophenol		<0.001	0.050	0.046	92	0.05	0.047	94	2	65-135	25	
4-Nitrophenol		<0.001	0.050	0.036	72	0.05	0.033	66	9	10-80	50	
N-Nitrosodi-n-Propylamine		<0.001	0.050	0.052	104	0.05	0.053	106	2	22-134	38	
N-Nitrosodiphenylamine		<0.002	0.050	0.035	70	0.05	0.037	74	6	2-196	25	
Pentachlorophenol		<0.001	0.050	0.023	46	0.05	0.024	48	4	17-117	50	
Phenanthrene		<0.001	0.050	0.041	82	0.05	0.043	86	5	65-135	25	
Phenol		<0.001	0.050	0.021	42	0.05	0.022	44	5	12-110	25	
Pyrene		<0.001	0.050	0.051	102	0.05	0.053	106	4	23-152	31	
Pyridine		<0.004	0.050	0.021	42	0.05	0.017	34	21	16-86	28	
2,4,5-Trichlorophenol		<0.001	0.050	0.036	72	0.05	0.038	76	5	65-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339558

Analyst: KAN

Lab Batch ID: 767677

Sample: 534892-1-BKS

Date Prepared: 08/04/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/05/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
2,4,6-Trichlorophenol	<0.001	0.050	0.040	80	0.05	0.042	84	5	65-135	25	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$
 Blank Spike Recovery [D] = $100 * (C)/[B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$
 All results are based on MDL and Validated for QC Purposes

Shell Oil Products Chain Of Custody Record



LAB (LOCATION)

4143 Greenbrier Dr., Stafford, TX 77477
 PH: 281-240-4200 FAX: 281-240-4250

- XENCO ()
- CALSCIENCE ()
- TEST AMERICA ()
- SPL ()
- OTHER ()

- Please Check Appropriate Box:
- ENV. SERVICES
 - MOTIVA SDBCM
 - SHELL PIPELINE
 - MOTIVA RETAIL
 - SHELL RETAIL
 - CONSULTANT
 - LUBES
 - OTHER

Print Bill To Contact Name: KEVIN DYER
 PO # _____
 SAP # _____
 DATE: 8/3/09
 PAGE: 1 of 1

CONSULTANT COMPANY: URS CORPORATION - FIELD OFFICE
 ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300
 CITY: ST. LOUIS, MISSOURI 63110
 TELEPHONE: OFF: 314-743-4168 FAX: OFF: 314-743-4168
 CELL: 314-452-8929 CELL: 314-452-8929
 TURNAROUND TIME (CALENDAR DAYS): STANDARD (10 DAY) 5 DAYS 3 DAYS 2 DAYS RESULTS NEEDED ON WEEKEND

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4
 TEMPERATURE ON RECEIPT °C: 13 Cooler #1 _____ Cooler #2 _____
 SPECIAL INSTRUCTIONS OR NOTES: SHELL CONTRACT RATE APPLIES
 Please include "J" values on Level 2 Reports
 Please provide sample receipt upon login.

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT.	LABORATORY NOTES	
	DATE	TIME	DATE	TIME		HCL	HNO3	H2SO4			NONE
	GWP-9-50	8/3/09	1036	water					X	2	
	GWP-9-58	8/3/09	1200	↓					X	2	
	GWP-10-50	8/3/09	1550	↓					X	2	
	GWP-10-58	8/3/09	1715	water					X	2	

Requested Analysis: VOC 8260B, SVOC/PAH 8270B, moisture
 Date: 8/3/09 Time: 1800
 Date: 8/4/09 Time: 0845
 Received by: (Signature) *[Signature]*
 Received by: (Signature) *[Signature]*
 Received by: (Signature) *[Signature]*



Prelogin / Nonconformance Report - Sample Log-In

Client: UPS Corp.
 Date/Time: 8/4/09
 Lab ID #: ~~339598~~ JAS 339558.
 Initials: JAS.

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when-relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No. <u>1826</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>65</u> lbs <u>1.3</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

JAS

Roxana Data Review

Laboratory SDG: 339700

Reviewer: Tony Sedlacek

Date Reviewed: 1/2/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-12-58	GWP-12-50

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that SVOC LCS/LCSD RPDs were outside evaluation criteria. This issue is addressed further in the appropriate section below.

The cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
534920-BKS	SVOCs	3,3-Dichlorobenzidine	130/96	30	12-147/25
534920-BKS	SVOCs	Pyridine	58/40	37	16-86/28

Analytical data did not require qualification since LCS/LCSD recoveries were within evaluation criteria and samples are not qualified due to LCS/LCSD RPDs outside evaluation criteria alone.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 339700

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S Central Avenue

Route 111 & Rand Ave Vicinity/21561979

06-AUG-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

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06-AUG-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **339700**
900 S Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 339700. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 339700 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Sample Cross Reference 339700



URS Corporation-St. Louis, St. Louis, MO
900 S Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-12-58	W	Aug-04-09 15:15		339700-001
GWP-12-50	W	Aug-04-09 17:00		339700-002

CASE NARRATIVE



Client Name: URS Corporation-St. Louis

Project Name: 900 S Central Avenue

Project ID: Route 111 & Rand Ave Vic

Work Order Number: 339700

Report Date: 06-AUG-09

Date Received: 08/05/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-767807 SVOCs by SW-846 8270C

3,3-Dichlorobenzidine, Pyridine RPD was outside laboratory control limits in the Blank Spike/Blank Spike Duplicate.

Samples affected are: 339700-002, -001

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S Central Avenue

Date Received in Lab: Wed Aug-05-09 09:00 am

Report Date: 06-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339700-001	339700-002
	Field Id:	GWP-12-58	GWP-12-50
Depth:			
Matrix:	WATER	WATER	
Sampled:	Aug-04-09 15:15	Aug-04-09 17:00	
Extracted:	Aug-05-09 11:00	Aug-05-09 11:03	
Analyzed:	Aug-06-09 11:40	Aug-06-09 12:30	
Units/RL:	mg/L RL	mg/L RL	
Acenaphthene	U 0.005	U 0.006	
Acenaphthylene	U 0.005	U 0.006	
Aniline (Phenylamine, Aminobenzene)	U 0.021	U 0.025	
Anthracene	U 0.005	U 0.006	
Benzo(a)anthracene	U 0.005	U 0.006	
Benzo(a)pyrene	U 0.005	U 0.006	
Benzo(b)fluoranthene	U 0.005	U 0.006	
Benzo(k)fluoranthene	U 0.005	U 0.006	
Benzo(g,h,i)perylene	U 0.005	U 0.006	
Benzoic Acid	U 0.031	U 0.038	
Benzyl Butyl Phthalate	U 0.005	U 0.006	
bis(2-chloroethoxy) methane	U 0.010	U 0.013	
bis(2-chloroethyl) ether	U 0.010	U 0.013	
bis(2-chloroisopropyl) ether	U 0.010	U 0.013	
bis(2-ethylhexyl) phthalate	U 0.005	U 0.006	
4-Bromophenyl-phenylether	U 0.010	U 0.013	
4-chloro-3-methylphenol	U 0.010	U 0.013	
4-Chloroaniline	U 0.021	U 0.025	
2-Chloronaphthalene	U 0.010	U 0.013	
2-Chlorophenol	U 0.010	U 0.013	
4-Chlorophenyl Phenyl Ether	U 0.010	U 0.013	
Chrysene	U 0.005	U 0.006	
Dibenz(a,h)anthracene	U 0.005	U 0.006	
Dibenzofuran	U 0.010	U 0.013	
di-n-Butyl Phthalate	U 0.005	U 0.006	

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Carlos Castro
Managing Director, Texas

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S Central Avenue

Date Received in Lab: Wed Aug-05-09 09:00 am

Report Date: 06-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339700-001	339700-002
	Field Id:	GWP-12-58	GWP-12-50
Depth:			
Matrix:	WATER	WATER	WATER
Sampled:	Aug-04-09 15:15	Aug-04-09 17:00	
Extracted:	Aug-05-09 11:00	Aug-05-09 11:03	
Analyzed:	Aug-06-09 11:40	Aug-06-09 12:30	
Units/RL:	mg/L RL	mg/L RL	RL
3,3-Dichlorobenzidine	U 0.010	U 0.013	
2,4-Dichlorophenol	U 0.010	U 0.013	
Diethyl Phthalate	U 0.005	U 0.006	
Dimethyl Phthalate	U 0.005	U 0.006	
2,4-Dimethylphenol	U 0.010	U 0.013	
4,6-dinitro-2-methyl phenol	U 0.010	U 0.013	
2,4-Dinitrophenol	U 0.010	U 0.013	
2,4-Dinitrotoluene	U 0.010	U 0.013	
2,6-Dinitrotoluene	U 0.010	U 0.013	
di-n-Octyl Phthalate	U 0.005	U 0.006	
Fluoranthene	U 0.005	U 0.006	
Fluorene	U 0.005	U 0.006	
Hexachlorobenzene	U 0.010	U 0.013	
Hexachlorocyclopentadiene	U 0.010	U 0.013	
Hexachloroethane	U 0.010	U 0.013	
Indeno(1,2,3-c,d)Pyrene	U 0.005	U 0.006	
Isophorone	U 0.010	U 0.013	
2-Methylnaphthalene	U 0.005	U 0.006	
2-methylphenol	U 0.010	U 0.013	
3&4-Methylphenol	U 0.010	U 0.013	
Naphthalene	U 0.005	U 0.006	
2-Nitroaniiline	U 0.010	U 0.013	
3-Nitroaniiline	U 0.010	U 0.013	
4-Nitroaniiline	U 0.021	U 0.025	
Nitrobenzene	U 0.010	U 0.013	

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Carlos Castro
Managing Director, Texas

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S Central Avenue

Date Received in Lab: Wed Aug-05-09 09:00 am

Report Date: 06-AUG-09

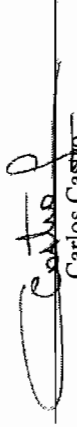
Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339700-001	339700-002
	Field Id:	GWP-12-58	GWP-12-50
Depth:			
Matrix:	WATER	WATER	
Sampled:	Aug-04-09 15:15	Aug-04-09 17:00	
Extracted:	Aug-05-09 11:00	Aug-05-09 11:03	
Analyzed:	Aug-06-09 11:40	Aug-06-09 12:30	
Units/RL:	mg/L RL	mg/L RL	
2-Nitrophenol	U 0.010	U 0.013	
4-Nitrophenol	U 0.010	U 0.013	
N-Nitrosodi-n-Propylamine	U 0.010	U 0.013	
N-Nitrosodiphenylamine	U 0.010	U 0.013	
Pentachlorophenol	U 0.010	U 0.013	
Phenanthrene	U 0.005	U 0.006	
Phenol	U 0.010	U 0.013	
Pyrene	U 0.005	U 0.006	
Pyridine	U 0.010	U 0.013	
2,4,5-Trichlorophenol	U 0.010	U 0.013	
2,4,6-Trichlorophenol	U 0.010	U 0.013	

SVOAs by SW-846 8270C

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Carlos Castro
Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : SVOAs by SW-846 8270C

Client : URS Corporation-St. Louis

Work Order #: 339700

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-12-50	Aug. 4, 2009	Aug. 5, 2009	Aug. 5, 2009	7	1	Aug.6, 2009	40	1	P
GWP-12-58	Aug. 4, 2009	Aug. 5, 2009	Aug. 5, 2009	7	1	Aug.6, 2009	40	1	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S Central Avenue

Work Orders : 339700,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767807

Sample: 534920-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/06/09 09:46

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.048	0.050	96	43-116	
2-Fluorophenol	0.028	0.050	56	21-100	
Nitrobenzene-d5	0.043	0.050	86	35-114	
Phenol-d6	0.015	0.050	30	10-94	
Terphenyl-D14	0.051	0.050	102	33-141	
2,4,6-Tribromophenol	0.032	0.050	64	10-123	

Lab Batch #: 767807

Sample: 534920-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/06/09 10:23

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.048	0.050	96	43-116	
2-Fluorophenol	0.031	0.050	62	21-100	
Nitrobenzene-d5	0.047	0.050	94	35-114	
Phenol-d6	0.021	0.050	42	10-94	
Terphenyl-D14	0.053	0.050	106	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

Lab Batch #: 767807

Sample: 534920-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/06/09 11:01

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.046	0.050	92	43-116	
2-Fluorophenol	0.031	0.050	62	21-100	
Nitrobenzene-d5	0.044	0.050	88	35-114	
Phenol-d6	0.022	0.050	44	10-94	
Terphenyl-D14	0.052	0.050	104	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S Central Avenue

Work Orders : 339700,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767807

Sample: 339700-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/06/09 11:40

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.047	0.052	90	43-116	
2-Fluorophenol	0.026	0.052	50	21-100	
Nitrobenzene-d5	0.042	0.052	81	35-114	
Phenol-d6	0.016	0.052	31	10-94	
Terphenyl-D14	0.051	0.052	98	33-141	
2,4,6-Tribromophenol	0.036	0.052	69	10-123	

Lab Batch #: 767807

Sample: 339700-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/06/09 12:30

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.057	0.063	90	43-116	
2-Fluorophenol	0.032	0.063	51	21-100	
Nitrobenzene-d5	0.052	0.063	83	35-114	
Phenol-d6	0.016	0.063	25	10-94	
Terphenyl-D14	0.061	0.063	97	33-141	
2,4,6-Tribromophenol	0.041	0.063	65	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Project Name: 900 S Central Avenue

Work Order #: 339700

Analyst: KAN

Lab Batch ID: 767807

Sample: 534920-1-BKS

Batch #: 1

Date Prepared: 08/05/2009

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/06/2009

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Anenaphthene		<0.001	0.050	0.045	90	0.05	0.044	88	2	27-132	31	
Acenaphthylene		<0.001	0.050	0.045	90	0.05	0.044	88	2	46-108	25	
Aniline (Phenylamine, Aminobenzene)		<0.001	0.050	0.048	96	0.05	0.041	82	16	5-115	25	
Anthracene		<0.001	0.050	0.045	90	0.05	0.045	90	0	47-145	25	
Benzo(a)anthracene		<0.001	0.050	0.046	92	0.05	0.045	90	2	33-143	25	
Benzo(a)pyrene		<0.001	0.050	0.051	102	0.05	0.050	100	2	65-135	25	
Benzo(b)fluoranthene		<0.001	0.050	0.048	96	0.05	0.048	96	0	24-159	25	
Benzo(k)fluoranthene		<0.001	0.050	0.050	100	0.05	0.049	98	2	25-125	25	
Benzo(g,h,i)perylene		<0.001	0.050	0.048	96	0.05	0.050	100	4	65-135	25	
Benzoic Acid		<0.009	0.150	0.097	65	0.15	0.104	69	7	30-115	40	
Benzyol Butyl Phthalate		<0.001	0.050	0.052	104	0.05	0.052	104	0	65-135	25	
bis(2-chloroethoxy) methane		<0.001	0.050	0.041	82	0.05	0.040	80	2	54-188	25	
bis(2-chloroethyl) ether		<0.001	0.050	0.040	80	0.05	0.038	76	5	65-135	25	
bis(2-chloroisopropyl) ether		<0.001	0.050	0.037	74	0.05	0.035	70	6	65-135	25	
bis(2-ethylhexyl) phthalate		<0.001	0.050	0.044	88	0.05	0.044	88	0	8-158	25	
4-Bromophenyl-phenylether		<0.001	0.050	0.046	92	0.05	0.045	90	2	65-135	25	
4-chloro-3-methylphenol		<0.001	0.050	0.049	98	0.05	0.050	100	2	16-129	33	
4-Chloroaniline		<0.001	0.050	0.063	126	0.05	0.052	104	19	9-128	25	
2-Chloronaphthalene		<0.001	0.050	0.046	92	0.05	0.044	88	4	65-135	25	
2-Chlorophenol		<0.001	0.050	0.042	84	0.05	0.041	82	2	16-116	40	

Relative Percent Difference RPD = $200 * [(C-F) / (C+F)]$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S Central Avenue

Work Order #: 339700

Analyst: KAN

Lab Batch ID: 767807

Sample: 534920-1-BKS

Date Prepared: 08/05/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/06/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C												
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
4-Chlorophenyl Phenyl Ether	<0.001	0.050	0.047	94	0.05	0.046	92	2	65-135	25		
Chrysene	<0.001	0.050	0.050	100	0.05	0.049	98	2	65-135	25		
Dibenz(a,h)anthracene	<0.001	0.050	0.047	94	0.05	0.047	94	0	50-125	25		
Dibenzofuran	<0.001	0.050	0.047	94	0.05	0.046	92	2	52-125	25		
di-n-Butyl Phthalate	<0.003	0.050	0.043	86	0.05	0.043	86	0	49-135	50		
3,3-Dichlorobenzidine	<0.002	0.050	0.065	130	0.05	0.048	96	30	12-147	25	F	
2,4-Dichlorophenol	<0.001	0.050	0.052	104	0.05	0.049	98	6	65-135	25		
Diethyl Phthalate	<0.001	0.050	0.045	90	0.05	0.045	90	0	37-125	50		
Dimethyl Phthalate	<0.001	0.050	0.046	92	0.05	0.046	92	0	25-175	50		
2,4-Dimethylphenol	<0.001	0.050	0.052	104	0.05	0.052	104	0	32-119	25		
4,6-dinitro-2-methyl phenol	<0.001	0.050	0.044	88	0.05	0.042	84	5	2-181	25		
2,4-Dinitrophenol	<0.001	0.050	0.033	66	0.05	0.041	82	22	65-135	25		
2,4-Dinitrotoluene	<0.001	0.050	0.047	94	0.05	0.046	92	2	22-135	38		
2,6-Dinitrotoluene	<0.001	0.050	0.045	90	0.05	0.044	88	2	49-122	38		
di-n-Octyl Phthalate	<0.001	0.050	0.046	92	0.05	0.046	92	0	43-134	50		
Fluoranthene	<0.001	0.050	0.044	88	0.05	0.044	88	0	47-125	25		
Fluorene	<0.001	0.050	0.046	92	0.05	0.046	92	0	48-139	25		
Hexachlorobenzene	<0.001	0.050	0.047	94	0.05	0.046	92	2	46-133	25		
Hexachlorocyclopentadiene	<0.001	0.050	0.044	88	0.05	0.043	86	2	41-125	25		
Hexachloroethane	<0.001	0.050	0.040	80	0.05	0.039	78	3	25-153	25		

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S Central Avenue

Work Order #: 339700

Analyst: KAN

Lab Batch ID: 767807

Sample: 534920-1-BKS

Date Prepared: 08/05/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979
 Date Analyzed: 08/06/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Indeno(1,2,3-c,d)Pyrene		<0.001	0.050	0.050	100	0.05	0.050	100	0	27-160	25	
Isophorone		<0.001	0.050	0.054	108	0.05	0.053	106	2	26-175	25	
2-Methylnaphthalene		<0.001	0.050	0.053	106	0.05	0.052	104	2	25-175	25	
2-methylphenol		<0.001	0.050	0.040	80	0.05	0.040	80	0	14-176	25	
3&4-Methylphenol		<0.002	0.100	0.081	81	0.1	0.081	81	0	14-176	25	
Naphthalene		<0.001	0.050	0.046	92	0.05	0.044	88	4	26-175	25	
2-Nitroaniline		<0.001	0.050	0.043	86	0.05	0.042	84	2	65-135	25	
3-Nitroaniline		<0.002	0.050	0.054	108	0.05	0.046	92	16	65-135	25	
4-Nitroaniline		<0.001	0.050	0.061	122	0.05	0.057	114	7	65-135	25	
Nitrobenzene		<0.001	0.050	0.044	88	0.05	0.042	84	5	65-135	25	
2-Nitrophenol		<0.001	0.050	0.050	100	0.05	0.048	96	4	65-135	25	
4-Nitrophenol		<0.001	0.050	0.035	70	0.05	0.037	74	6	10-80	50	
N-Nitrosodi-n-Propylamine		<0.001	0.050	0.056	112	0.05	0.054	108	4	22-134	38	
N-Nitrosodiphenylamine		<0.002	0.050	0.039	78	0.05	0.035	70	11	2-196	25	
Pentachlorophenol		<0.001	0.050	0.025	50	0.05	0.024	48	4	17-117	50	
Phenanthrene		<0.001	0.050	0.045	90	0.05	0.045	90	0	65-135	25	
Phenol		<0.001	0.050	0.026	52	0.05	0.022	44	17	12-110	25	
Pyrene		<0.001	0.050	0.056	112	0.05	0.055	110	2	23-152	31	
Pyridine		<0.004	0.050	0.029	58	0.05	0.020	40	37	16-86	28	F
2,4,5-Trichlorophenol		<0.001	0.050	0.040	80	0.05	0.042	84	5	65-135	25	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C/[B])$

Blank Spike Duplicate Recovery [G] = $100 * (F/[E])$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S Central Avenue

Work Order #: 339700

Analyst: KAN

Lab Batch ID: 767807

Sample: 534920-1-BKS

Batch #: 1

Date Prepared: 08/05/2009

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/06/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes 2,4,6-Trichlorophenol	<0.001	0.050	0.044	88	0.05	0.044	88	0	65-135	25	

Relative Percent Difference RPD = $200 * [(C-F) / (C+F)]$
 Blank Spike Recovery [D] = $100 * (C) / [B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$
 All results are based on MDL and Validated for QC Purposes



Prelogin / Nonconformance Report - Sample Log-In

Client: QRS CORPORATION
Date/Time: 08/05/09
Lab ID #: 339700
Initials: [Signature]

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when-relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No. <u>1829</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>49</u> lbs <u>2.5</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 339882

Reviewer: Tony Sedlacek

Date Reviewed: 1/5/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-13-50	GWP-13-58
GWP-14-50	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative indicated that no problems or discrepancies were encountered.

The cooler receipt form indicated that the samples were received by the laboratory at 1.8 °C and outside the 4 °C ± 2 °C temperature range criteria. Samples were received by the laboratory in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 339882

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

07-AUG-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Houston - Dallas - San Antonio - Tampa - Miami - Midland - Corpus Christi - Atlanta - Latin America



07-AUG-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **339882**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 339882. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 339882 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 339882



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-13-50	W	Aug-05-09 10:15		339882-001
GWP-13-58	W	Aug-05-09 12:15		339882-002
GWP-14-50	W	Aug-05-09 14:25		339882-003



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 339882

Report Date: 07-AUG-09
Date Received: 08/06/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-767962 SVOCs by SW-846 8270C

None



Certificate of Analysis Summary 339882

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-06-09 08:45 am

Report Date: 07-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339882-001	339882-002	339882-003
	Field Id:	GWP-13-50	GWP-13-58	GWP-14-50
Depth:				
Matrix:		WATER	WATER	WATER
Sampled:		Aug-05-09 10:15	Aug-05-09 12:15	Aug-05-09 14:25
Extracted:	SVOAs by SW-846 8270C	Aug-06-09 11:30	Aug-06-09 11:33	Aug-06-09 11:36
Analyzed:		Aug-07-09 11:49	Aug-07-09 12:27	Aug-07-09 13:05
Units/RL:		mg/L RL	mg/L RL	mg/L RL
Acenaphthene		U 0.006	U 0.005	U 0.005
Acenaphthylene		U 0.006	U 0.005	U 0.005
Aniline (Phenylamine, Aminobenzene)		U 0.023	U 0.021	U 0.021
Anthracene		U 0.006	U 0.005	U 0.005
Benzo(a)anthracene		U 0.006	U 0.005	U 0.005
Benzo(a)pyrene		U 0.006	U 0.005	U 0.005
Benzo(b)fluoranthene		U 0.006	U 0.005	U 0.005
Benzo(k)fluoranthene		U 0.006	U 0.005	U 0.005
Benzo(g,h,i)perylene		U 0.006	U 0.005	U 0.005
Benzoic Acid		U 0.034	U 0.032	U 0.032
Benzyl Butyl Phthalate		U 0.006	U 0.005	U 0.005
bis(2-chloroethoxy) methane		U 0.011	U 0.011	U 0.011
bis(2-chloroethyl) ether		U 0.011	U 0.011	U 0.011
bis(2-chloroisopropyl) ether		U 0.011	U 0.011	U 0.011
bis(2-ethylhexyl) phthalate		U 0.006	U 0.005	U 0.005
4-Bromophenyl-phenylether		U 0.011	U 0.011	U 0.011
4-chloro-3-methylphenol		U 0.011	U 0.011	U 0.011
4-Chloroaniline		U 0.023	U 0.021	U 0.021
2-Chloronaphthalene		U 0.011	U 0.011	U 0.011
2-Chlorophenol		U 0.011	U 0.011	U 0.011
4-Chlorophenyl Phenyl Ether		U 0.011	U 0.011	U 0.011
Chrysene		U 0.006	U 0.005	U 0.005
Dibenz(a,h)anthracene		U 0.006	U 0.005	U 0.005
Dibenzofuran		U 0.011	U 0.011	U 0.011
di-n-Butyl Phthalate		U 0.006	U 0.005	U 0.005

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 339882

URS Corporation-St. Louis, St. Louis, MO

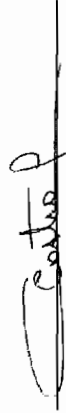


Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084
Date Received in Lab: Thu Aug-06-09 08:45 am
Report Date: 07-AUG-09
Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339882-001	339882-002	339882-003
	Field Id:	GWP-13-50	GWP-13-58	GWP-14-50
Depth:				
Matrix:	WATER	WATER	WATER	
Sampled:	Aug-05-09 10:15	Aug-05-09 12:15	Aug-05-09 14:25	
Extracted:	Aug-06-09 11:30	Aug-06-09 11:33	Aug-06-09 11:36	
Analyzed:	Aug-07-09 11:49	Aug-07-09 12:27	Aug-07-09 13:05	
Units/RL:	mg/L RL	mg/L RL	mg/L RL	
3,3-Dichlorobenzidine	U 0.011	U 0.011	U 0.011	
2,4-Dichlorophenol	U 0.011	U 0.011	U 0.011	
Diethyl Phthalate	U 0.006	U 0.005	U 0.005	
Dimethyl Phthalate	U 0.006	U 0.005	U 0.005	
2,4-Dimethylphenol	U 0.011	0.005 J 0.011	U 0.011	
4,6-dinitro-2-methyl phenol	U 0.011	U 0.011	U 0.011	
2,4-Dinitrophenol	U 0.011	U 0.011	U 0.011	
2,4-Dinitrotoluene	U 0.011	U 0.011	U 0.011	
2,6-Dinitrotoluene	U 0.011	U 0.011	U 0.011	
di-n-Octyl Phthalate	U 0.006	U 0.005	U 0.005	
Fluoranthene	U 0.006	U 0.005	U 0.005	
Fluorene	U 0.006	U 0.005	U 0.005	
Hexachlorobenzene	U 0.011	U 0.011	U 0.011	
Hexachlorocyclopentadiene	U 0.011	U 0.011	U 0.011	
Hexachloroethane	U 0.011	U 0.011	U 0.011	
Indeno(1,2,3-c,d)Pyrene	U 0.006	U 0.005	U 0.005	
Isophorone	U 0.011	U 0.011	U 0.011	
2-Methylnaphthalene	U 0.006	0.052 0.005	U 0.005	
2-methylphenol	U 0.011	U 0.011	U 0.011	
3&4-Methylphenol	U 0.011	U 0.011	U 0.011	
Naphthalene	U 0.006	0.236 D 0.053	U 0.005	
2-Nitroaniline	U 0.011	U 0.011	U 0.011	
3-Nitroaniline	U 0.011	U 0.011	U 0.011	
4-Nitroaniline	U 0.023	U 0.021	U 0.021	
Nitrobenzene	U 0.011	U 0.011	U 0.011	

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Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 339882

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-06-09 08:45 am

Report Date: 07-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339882-001	339882-002	339882-003
	Field Id:	GWP-13-50	GWP-13-58	GWP-14-50
Depth:				
Matrix:	WATER	WATER	WATER	
Sampled:	Aug-05-09 10:15	Aug-05-09 12:15	Aug-05-09 14:25	
Extracted:	Aug-06-09 11:30	Aug-06-09 11:33	Aug-06-09 11:36	
Analyzed:	Aug-07-09 11:49	Aug-07-09 12:27	Aug-07-09 13:05	
Units/RL:	mg/L RL	mg/L RL	mg/L RL	
2-Nitrophenol	U 0.011	U 0.011	U 0.011	
4-Nitrophenol	U 0.011	U 0.011	U 0.011	
N-Nitrosodi-n-Propylamine	U 0.011	U 0.011	U 0.011	
N-Nitrosodiphenylamine	U 0.011	U 0.011	U 0.011	
Pentachlorophenol	U 0.006	U 0.005	U 0.005	
Phenanthrene	U 0.011	U 0.011	U 0.011	
Phenol	U 0.006	U 0.005	U 0.005	
Pyrene	U 0.011	U 0.011	U 0.011	
Pyridine	U 0.011	U 0.011	U 0.011	
2,4,5-Trichlorophenol	U 0.011	U 0.011	U 0.011	
2,4,6-Trichlorophenol	U 0.011	U 0.011	U 0.011	

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Carlos Castro
Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : SVOAs by SW-846 8270C

Client : URS Corporation-St. Louis

Work Order #: 339882

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-13-50	Aug. 5, 2009	Aug. 6, 2009	Aug. 6, 2009	7	1	Aug.7, 2009	40	1	P
GWP-14-50	Aug. 5, 2009	Aug. 6, 2009	Aug. 6, 2009	7	1	Aug.7, 2009	40	1	P
GWP-13-58	Aug. 5, 2009	Aug. 6, 2009	Aug. 6, 2009	7	1	Aug.7, 2009	40	1	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339882,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767962

Sample: 535008-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 09:56

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.049	0.050	98	43-116	
2-Fluorophenol	0.032	0.050	64	21-100	
Nitrobenzene-d5	0.044	0.050	88	35-114	
Phenol-d6	0.018	0.050	36	10-94	
Terphenyl-D14	0.053	0.050	106	33-141	
2,4,6-Tribromophenol	0.029	0.050	58	10-123	

Lab Batch #: 767962

Sample: 535008-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 10:34

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.047	0.050	94	43-116	
2-Fluorophenol	0.036	0.050	72	21-100	
Nitrobenzene-d5	0.048	0.050	96	35-114	
Phenol-d6	0.026	0.050	52	10-94	
Terphenyl-D14	0.055	0.050	110	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

Lab Batch #: 767962

Sample: 535008-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 11:12

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.048	0.050	96	43-116	
2-Fluorophenol	0.036	0.050	72	21-100	
Nitrobenzene-d5	0.049	0.050	98	35-114	
Phenol-d6	0.025	0.050	50	10-94	
Terphenyl-D14	0.057	0.050	114	33-141	
2,4,6-Tribromophenol	0.042	0.050	84	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339882,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767962

Sample: 339882-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 11:49

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.053	0.057	93	43-116	
2-Fluorophenol	0.031	0.057	54	21-100	
Nitrobenzene-d5	0.048	0.057	84	35-114	
Phenol-d6	0.020	0.057	35	10-94	
Terphenyl-D14	0.058	0.057	102	33-141	
2,4,6-Tribromophenol	0.044	0.057	77	10-123	

Lab Batch #: 767962

Sample: 339882-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 12:27

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.052	0.053	98	43-116	
2-Fluorophenol	0.024	0.053	45	21-100	
Nitrobenzene-d5	0.047	0.053	89	35-114	
Phenol-d6	0.019	0.053	36	10-94	
Terphenyl-D14	0.054	0.053	102	33-141	
2,4,6-Tribromophenol	0.046	0.053	87	10-123	

Lab Batch #: 767962

Sample: 339882-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 13:05

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.050	0.053	94	43-116	
2-Fluorophenol	0.025	0.053	47	21-100	
Nitrobenzene-d5	0.043	0.053	81	35-114	
Phenol-d6	0.017	0.053	32	10-94	
Terphenyl-D14	0.053	0.053	100	33-141	
2,4,6-Tribromophenol	0.036	0.053	68	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339882,

Lab Batch #: 767962

Sample: 339882-002 / DL

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 14:23

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.052	0.053	98	43-116	
2-Fluorophenol	0.041	0.053	77	21-100	
Nitrobenzene-d5	0.050	0.053	94	35-114	
Phenol-d6	0.013	0.053	25	10-94	
Terphenyl-D14	0.051	0.053	96	33-141	
2,4,6-Tribromophenol	0.042	0.053	79	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339882

Analyt: KAN

Lab Batch ID: 767962

Sample: 535008-1-BKS

Date Prepared: 08/06/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/07/2009

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
SVOAs by SW-846 8270C											
Acenaphthene	<0.001	0.050	0.044	88	0.05	0.046	92	4	27-132	31	
Acenaphthylene	<0.001	0.050	0.044	88	0.05	0.046	92	4	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.001	0.050	0.045	90	0.05	0.050	100	11	5-115	25	
Anthracene	<0.001	0.050	0.046	92	0.05	0.047	94	2	47-145	25	
Benzo(a)anthracene	<0.001	0.050	0.046	92	0.05	0.048	96	4	33-143	25	
Benzo(a)pyrene	<0.001	0.050	0.051	102	0.05	0.053	106	4	65-135	25	
Benzo(b)fluoranthene	<0.001	0.050	0.048	96	0.05	0.052	104	8	24-159	25	
Benzo(k)fluoranthene	<0.001	0.050	0.051	102	0.05	0.052	104	2	25-125	25	
Benzo(g,h,i)perylene	<0.001	0.050	0.042	84	0.05	0.044	88	5	65-135	25	
Benzoic Acid	<0.009	0.150	0.105	70	0.15	0.107	71	2	30-115	40	
Benzyol Butyl Phthalate	<0.001	0.050	0.053	106	0.05	0.056	112	6	65-135	25	
bis(2-chloroethoxy) methane	<0.001	0.050	0.042	84	0.05	0.042	84	0	54-188	25	
bis(2-chloroethyl) ether	<0.001	0.050	0.041	82	0.05	0.043	86	5	65-135	25	
bis(2-chloroisopropyl) ether	<0.001	0.050	0.036	72	0.05	0.035	70	3	65-135	25	
bis(2-ethylhexyl) phthalate	<0.001	0.050	0.045	90	0.05	0.046	92	2	8-158	25	
4-Bromophenyl-phenylether	<0.001	0.050	0.046	92	0.05	0.048	96	4	65-135	25	
4-chloro-3-methylphenol	<0.001	0.050	0.048	96	0.05	0.041	82	16	16-129	33	
4-Chloroaniline	<0.001	0.050	0.054	108	0.05	0.063	126	15	9-128	25	
2-Chloronaphthalene	<0.001	0.050	0.043	86	0.05	0.045	90	5	65-135	25	
2-Chloropheno	<0.001	0.050	0.044	88	0.05	0.046	92	4	16-116	40	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339882

Analyst: KAN

Lab Batch ID: 767962

Sample: 535008-1-BKS

Date Prepared: 08/06/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/07/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
4-Chlorophenyl Phenyl Ether	<0.001	0.050	0.046	92	0.05	0.048	96	4	65-135	25	
Chrysene	<0.001	0.050	0.050	100	0.05	0.053	106	6	65-135	25	
Dibenz(a,h)anthracene	<0.001	0.050	0.046	92	0.05	0.048	96	4	50-125	25	
Dibenzofuran	<0.001	0.050	0.046	92	0.05	0.048	96	4	52-125	25	
di-n-Butyl Phthalate	<0.003	0.050	0.044	88	0.05	0.046	92	4	49-135	50	
3,3-Dichlorobenzidine	<0.002	0.050	0.055	110	0.05	0.062	124	12	12-147	25	
2,4-Dichlorophenol	<0.001	0.050	0.051	102	0.05	0.054	108	6	65-135	25	
Diethyl Phthalate	<0.001	0.050	0.046	92	0.05	0.047	94	2	37-125	50	
Dimethyl Phthalate	<0.001	0.050	0.046	92	0.05	0.048	96	4	25-175	50	
2,4-Dimethylphenol	<0.001	0.050	0.051	102	0.05	0.054	108	6	32-119	25	
4,6-dinitro-2-methyl phenol	<0.001	0.050	0.043	86	0.05	0.047	94	9	2-181	25	
2,4-Dinitrophenol	<0.001	0.050	0.043	86	0.05	0.034	68	23	65-135	25	
2,4-Dinitrotoluene	<0.001	0.050	0.047	94	0.05	0.049	98	4	22-135	38	
2,6-Dinitrotoluene	<0.001	0.050	0.045	90	0.05	0.046	92	2	49-122	38	
di-n-Octyl Phthalate	<0.001	0.050	0.048	96	0.05	0.049	98	2	43-134	50	
Fluoranthene	<0.001	0.050	0.045	90	0.05	0.047	94	4	47-125	25	
Fluorene	<0.001	0.050	0.046	92	0.05	0.048	96	4	48-139	25	
Hexachlorobenzene	<0.001	0.050	0.047	94	0.05	0.049	98	4	46-133	25	
Hexachlorocyclopentadiene	<0.001	0.050	0.044	88	0.05	0.046	92	4	41-125	25	
Hexachloroethane	<0.001	0.050	0.033	66	0.05	0.036	72	9	25-153	25	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339882

Analyst: KAN

Lab Batch ID: 767962

Sample: 535008-1-BKS

Date Prepared: 08/06/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/07/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Indeno(1,2,3-c,d)Pyrene		<0.001	0.050	0.048	96	0.05	0.050	100	4	27-160	25	
Isophorone		<0.001	0.050	0.052	104	0.05	0.055	110	6	26-175	25	
2-Methylnaphthalene		<0.001	0.050	0.050	100	0.05	0.051	102	2	25-175	25	
2-methylphenol		<0.001	0.050	0.043	86	0.05	0.044	88	2	14-176	25	
3&4-Methylphenol		<0.002	0.100	0.087	87	0.1	0.088	88	1	14-176	25	
Naphthalene		<0.001	0.050	0.043	86	0.05	0.045	90	5	26-175	25	
2-Nitroaniline		<0.001	0.050	0.043	86	0.05	0.044	88	2	65-135	25	
3-Nitroaniline		<0.002	0.050	0.048	96	0.05	0.056	112	15	65-135	25	
4-Nitroaniline		<0.001	0.050	0.061	122	0.05	0.064	128	5	65-135	25	
Nitrobenzene		<0.001	0.050	0.044	88	0.05	0.046	92	4	65-135	25	
2-Nitrophenol		<0.001	0.050	0.051	102	0.05	0.053	106	4	65-135	25	
4-Nitrophenol		<0.001	0.050	0.035	70	0.05	0.035	70	0	10-80	50	
N-Nitrosodi-n-Propylamine		<0.001	0.050	0.056	112	0.05	0.057	114	2	22-134	38	
N-Nitrosodiphenylamine		<0.002	0.050	0.038	76	0.05	0.040	80	5	2-196	25	
Pentachlorophenol		<0.001	0.050	0.025	50	0.05	0.028	56	11	17-117	50	
Phenanthrene		<0.001	0.050	0.045	90	0.05	0.047	94	4	65-135	25	
Phenol		<0.001	0.050	0.030	60	0.05	0.031	62	3	12-110	25	
Pyrene		<0.001	0.050	0.056	112	0.05	0.059	118	5	23-152	31	
Pyridine		<0.004	0.050	0.023	46	0.05	0.021	42	9	16-86	28	
2,4,5-Trichlorophenol		<0.001	0.050	0.042	84	0.05	0.042	84	0	65-135	25	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339882

Analyst: KAN

Lab Batch ID: 767962

Sample: 535008-1-BKS

Date Prepared: 08/06/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/07/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
2,4,6-Trichlorophenol	<0.001	0.050	0.045	90	0.05	0.046	92	2	65-135	25	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$
 Blank Spike Recovery [D] = $100 * (C)/[B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$
 All results are based on MDL and Validated for QC Purposes



Prelogin / Nonconformance Report - Sample Log-In

Client: VRS Corp.
 Date/Time: 8/6/09
 Lab ID #: 339882
 Initials: JAS.

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when-relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>61</u> lbs <u>1.8</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 339883

Reviewer: Tony Sedlacek

Date Reviewed: 1/7/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-9-50	GWP-9-58
GWP-10-50	GWP-10-58
TB080309	GWP-12-58
GWP-12-50	GWP-13-50
GWP-13-58	GWP-14-50
GWP-14-58	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that VOC LCS and MS/MSD recoveries were outside evaluation criteria. Samples were diluted due to high levels of target analytes. Sample results were qualified using professional judgment. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that the samples were received by the laboratory at 1.8 °C and outside the 4 °C ± 2 °C temperature range criteria. Samples were received by the laboratory in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
535046-1-BKS	VOCs	2,2-Dichloropropane	127	N/A	75-125

The compound 2,2-dichloropropane was reported as nondetect in samples associated with the LCS recovery above evaluation criteria, indicating a possible high bias, and did not require qualification.

Field ID	Parameter	Analyte	Qualification
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

Yes, sample GWP-12-50 was spiked and analyzed for VOCs.

Were MS/MSD recoveries within evaluation criteria?

No, 28 out of 62 MS recoveries and 12 out of 62 MSD recoveries in sample GWP-12-50 were outside evaluation criteria and were not listed individually.

USEPA National Functional Guidelines for Superfund Organic Methods Data Review indicates that organic data should not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria; therefore, no qualification of the data was required.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes, professional judgment was used to qualify the common laboratory contaminants acetone, 2-butanone and methylene chloride reported at concentrations less than two times (2X) the RL.

Sample ID	Analyte	New RL	Qualification	Comment
GWP-9-50	Acetone	-	U	Professional Judgment
GWP-9-58	Acetone	-	U	Professional Judgment
GWP-12-58	Methylene chloride	-	U	Professional Judgment
GWP-12-50	Acetone	-	U	Professional Judgment
GWP-12-50	2-Butanone	-	U	Professional Judgment
GWP-14-50	Methylene chloride	-	U	Professional Judgment
GWP-14-58	Methylene chloride	-	U	Professional Judgment

Analytical Report 339883

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

18-AUG-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Houston - Dallas - San Antonio - Tampa - Miami - Midland - Corpus Christi - Atlanta - Latin America



18-AUG-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **339883**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 339883. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 339883 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro
Managing Director, Texas

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Sample Cross Reference 339883



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-9-50	W	Aug-03-09 10:36		339883-001
GWP-9-58	W	Aug-03-09 12:00		339883-002
GWP-10-50	W	Aug-03-09 15:50		339883-003
GWP-10-58	W	Aug-03-09 17:15		339883-004
TB080309	W	Aug-03-09 00:00		339883-005
GWP-12-58	W	Aug-04-09 15:15		339883-006
GWP-12-50	W	Aug-04-09 17:00		339883-007
GWP-13-50	W	Aug-05-09 10:15		339883-008
GWP-13-58	W	Aug-05-09 12:15		339883-009
GWP-14-50	W	Aug-05-09 14:25		339883-010
GWP-14-58	W	Aug-05-09 15:50		339883-011

CASE NARRATIVE



Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vi
Work Order Number: 339883

Report Date: 18-AUG-09
Date Received: 08/06/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-767952 VOAs by SW-846 8260B

1,1-Dichloropropene, 1,2,4-Trichlorobenzene, Dibromochloromethane, trans-1,2-dichloroethene recovered below QC limits in the Matrix Spike. 1,2,4-Trimethylbenzene, 1,4-Dichlorobenzene, 2-Chlorotoluene, 4-Chlorotoluene, Acetone, Bromobenzene, Ethylbenzene, Hexachlorobutadiene, Sec-Butylbenzene, Tetrachloroethylene, isopropylbenzene, m,p-Xylenes, n-Butylbenzene, n-Propylbenzene, o-Xylene, p-Cymene (p-Isopropyltoluene), tert-Butylbenzene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene recovered below QC limits in the Matrix Spike Duplicate. Dichlorodifluoromethane recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Vinyl Chloride recovered above QC limits in the Matrix Spike Duplicate.

Samples affected are: 339883-005, -011, -010, -003, -006, -004.

The Laboratory Control Sample for Acetone, Tetrachloroethylene, m,p-Xylenes, 2-Chlorotoluene, tert-Butylbenzene, 1,4-Dichlorobenzene, Benzene, Bromobenzene, 1,2,4-Trimethylbenzene, Sec-Butylbenzene, n-Butylbenzene, Ethylbenzene, o-Xylene, Dichlorodifluoromethane, 1,2,4-Trichlorobenzene, trans-1,2-dichloroethene, Dibromochloromethane, n-Propylbenzene, 4-Chlorotoluene, p-Cymene (p-Isopropyltoluene), Hexachlorobutadiene, 1,1-Dichloropropene, isopropylbenzene, Vinyl Chloride is within laboratory Control Limits

2,2-Dichloropropane recovered above QC limits in the laboratory control sample.

Samples affected are: 339883-005, -011, -010, -003, -006, -004.

CASE NARRATIVE



Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vi

Work Order Number: 339883

Report Date: 18-AUG-09

Date Received: 08/06/2009

Batch: LBA-768128 VOAs by SW-846 8260B

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Chloroethane, Ethylbenzene, Styrene, cis-1,2-Dichloroethene, n-Propylbenzene, o-Xylene, p-Cymene (p-Isopropyltoluene) recovered below QC limits in the Matrix Spike. 1,1-Dichloropropene, 1,2,4-Trimethylbenzene, 1,3-Dichloropropane, Acetone, Bromobenzene, Bromomethane, Carbon Disulfide, Chloromethane, Methylene Chloride, Tetrachloroethylene, Vinyl Chloride, m,p-Xylenes, trans-1,2-dichloroethene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 339883-007, -002, -001, -003, -009, -008, -004.

The Laboratory Control Sample for Bromomethane, Acetone, Methylene Chloride, 1,3-Dichlorobenzene, cis-1,2-Dichloroethene, Bromochloromethane, 1,3-Dichloropropane, Carbon Disulfide, Tetrachloroethylene, m,p-Xylenes, 2-Chlorotoluene, 1,4-Dichlorobenzene, Chloromethane, Bromobenzene, 1,2,4-Trimethylbenzene, Ethylbenzene, o-Xylene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, trans-1,2-dichloroethene, Styrene, n-Propylbenzene, 4-Chlorotoluene, p-Cymene (p-Isopropyltoluene), 1,2,3-Trichlorobenzene, Vinyl Chloride, Chloroethane, 1,1-Dichloropropene is within laboratory Control Limits

Batch: LBA-768350 BTEX by SW 8260B

Sample 009 in this batch is reporting dilution for Ethylbenzene, m,p-xylene, o-xylene, and 124 Trimethylbenzene only.



Certificate of Analysis Summary 339883

URS Corporation - St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-06-09 08:45 am

Report Date: 18-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	339883-001	339883-002	339883-003	339883-004	339883-005	339883-006
									GWP-9-50	GWP-9-58	GWP-10-50	GWP-10-58	IB080309	GWP-12-58
									WATER	WATER	WATER	WATER	WATER	WATER
									Aug-03-09 10:36	Aug-03-09 12:00	Aug-03-09 15:50	Aug-03-09 17:15	Aug-03-09 00:00	Aug-04-09 15:15
VOAs by SW-846 8260B									Aug-08-09 13:10	Aug-08-09 13:08	Aug-08-09 13:16	Aug-08-09 13:14	Aug-07-09 15:40	Aug-07-09 15:42
									Aug-08-09 16:46	Aug-08-09 16:24	Aug-08-09 17:54	Aug-08-09 17:31	Aug-07-09 17:17	Aug-07-09 17:39
									ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
									RL	RL	RL	RL	RL	RL
									100	100	500	1000	100	100
Acetone									0.0	0.0	U	U	U	U
Benzene									164	2.81 J	21.3 J	13.7 J	U	U
Bromobenzene									U	U	U	U	U	U
Bromochloromethane									U	U	U	U	U	U
Bromodichloromethane									U	U	U	U	U	U
Bromoform									U	U	U	U	U	U
Bromomethane									U	U	U	U	U	U
2-Butanone									U	U	U	U	U	U
MTBE									U	U	U	U	U	U
n-Butylbenzene									1.15 J	2.58 J	14.4 J	U	U	U
Sec-Butylbenzene									1.16 J	1.54 J	5.65 J	356	U	U
tert-Butylbenzene									U	U	U	U	U	U
Carbon Disulfide									U	U	U	U	U	U
Carbon Tetrachloride									U	U	U	U	U	U
Chlorobenzene									U	U	U	U	U	U
Chloroethane									U	U	U	U	U	U
Chloroform									U	U	U	U	U	U
Chloromethane									U	U	U	U	U	U
2-Chlorotoluene									U	U	U	U	U	U
4-Chlorotoluene									U	U	U	U	U	U
p-Cymene (p-Isopropyltoluene)									U	U	7.01 J	U	U	U
Dibromochloromethane									U	U	U	U	U	U
1,2-Dibromo-3-Chloropropane									U	U	U	U	U	U
Dibromomethane									U	U	U	U	U	U
1,2-Dichlorobenzene									U	U	U	U	U	U

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 339883

URS Corporation - St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-06-09 08:45 am

Report Date: 18-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339883-001	339883-002	339883-003	339883-004	339883-005	339883-006
	Field Id:	GWP-9-50	GWP-9-58	GWP-10-50	GWP-10-58	TB080309	GWP-12-58
Depth:							
Matrix:	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sampled:	Aug-03-09 10:36	Aug-03-09 12:00	Aug-03-09 15:50	Aug-03-09 17:15	Aug-03-09 00:00	Aug-03-09 00:00	Aug-04-09 15:15
Extracted:	Aug-08-09 13:10	Aug-08-09 13:08	Aug-08-09 13:16	Aug-08-09 13:14	Aug-07-09 15:40	Aug-07-09 15:40	Aug-07-09 15:42
Analyzed:	Aug-08-09 16:46	Aug-08-09 16:24	Aug-08-09 17:54	Aug-08-09 17:31	Aug-07-09 17:17	Aug-07-09 17:17	Aug-07-09 17:39
Units/RL:	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL
1,3-Dichlorobenzene	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
1,4-Dichlorobenzene	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
Dichlorodifluoromethane	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
1,1-Dichloroethane	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
1,2-Dichloroethane	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
1,1-Dichloroethene	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
cis-1,2-Dichloroethene	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
trans-1,2-dichloroethene	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
1,2-Dichloropropane	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
1,3-Dichloropropane	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
2,2-Dichloropropane	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
1,1-Dichloropropene	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
cis-1,3-Dichloropropene	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
trans-1,3-dichloropropene	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
Ethylbenzene	3.78 J 5.00	88.2 5.00	1390 D 125	2880 D 250	U 5.00	U 5.00	U 5.00
Hexachlorobutadiene	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
isopropylbenzene	4.23 J 5.00	38.6 5.00	66.5 25.0	57.8 50.0	U 5.00	U 5.00	U 5.00
Methylene Chloride	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
n-Propylbenzene	4.31 J 5.00	21.2 5.00	68.0 25.0	67.0 50.0	U 5.00	U 5.00	U 5.00
Styrene	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
1,1,1,2-Tetrachloroethane	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
1,1,1,2,2-Tetrachloroethane	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
Tetrachloroethylene	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00
Toluene	6.47 5.00	1.04 J 5.00	24.2 J 25.0	482 50.0	U 5.00	U 5.00	U 5.00
1,2,3-Trichlorobenzene	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00	U 5.00

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Carlos Castro

Managing Director, Texas

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Thu Aug-06-09 08:45 am

Report Date: 18-AUG-09

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>	339883-001	339883-002	339883-003	339883-004	339883-005	339883-006
VOAs by SW-846 8260B	GWP-9-50	GWP-9-50		WATER	Aug-03-09 10:36	Aug-08-09 13:10	Aug-08-09 16:46	RL	U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00
1,2,4-Trichlorobenzene									U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00
1,1,1-Trichloroethane									U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00
1,1,2-Trichloroethane									U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00
Trichloroethene									U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00
Trichloro fluoromethane									U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00
1,2,3-Trichloropropane									U 5.00	U 5.00	U 25.0	U 50.0	U 5.00	U 5.00
1,2,4-Trimethylbenzene									1.44 J	19.1	406	429	U 5.00	U 5.00
1,3,5-Trimethylbenzene									5.00	15.8	88.5	113	U 5.00	U 5.00
o-Xylene									5.00	26.5	94.3	1120	U 5.00	U 5.00
m,p-Xylenes									17.8	273	1080	3550	U 10.0	U 10.0
Vinyl Acetate									U 50.0	U 50.0	U 250	U 500	U 50.0	U 50.0
Vinyl Chloride									U 2.00	U 2.00	U 10.0	U 20.0	U 2.00	U 2.00

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Managing Director, Texas



Certificate of Analysis Summary 339883

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-06-09 08:45 am

Report Date: 18-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339883-007	339883-008	339883-009	339883-010	339883-011
	Field Id:	GWP-12-50	GWP-13-50	GWP-13-58	GWP-14-50	GWP-14-58
Depth:						
Matrix:		WATER	WATER	WATER	WATER	WATER
Sampled:		Aug-04-09 17:00	Aug-05-09 10:15	Aug-05-09 12:15	Aug-05-09 14:25	Aug-05-09 15:50
Extracted:		Aug-08-09 13:06	Aug-08-09 13:12	Aug-08-09 13:18	Aug-07-09 15:46	Aug-07-09 15:46
Analyzed:		Aug-08-09 16:01	Aug-08-09 17:09	Aug-08-09 18:17	Aug-07-09 18:25	Aug-07-09 18:47
Units/RL:		ug/L, O, RL	ug/L, RL	ug/L, RL	ug/L, RL	ug/L, RL
Acetone	0.0	5.0	100	200	100	100
Benzene	22.1	5.00	85.4	5.00	U	U
Bromobenzene	U	5.00	U	5.00	U	U
Bromochloromethane	U	5.00	U	5.00	U	U
Bromodichloromethane	U	5.00	U	5.00	U	U
Bromoform	U	5.00	U	5.00	U	U
Bromomethane	U	5.00	U	5.00	U	U
2-Butanone	0.0	5.00	U	50.0	U	U
MTBE	0.0	5.00	U	5.00	U	U
n-Butylbenzene	U	5.00	1.96 J	5.00	U	U
Sec-Butylbenzene	U	5.00	1.14 J	5.00	U	U
tert-Butylbenzene	U	5.00	U	5.00	U	U
Carbon Disulfide	U	50.0	U	50.0	U	U
Carbon Tetrachloride	U	5.00	U	5.00	U	U
Chlorobenzene	U	5.00	U	5.00	U	U
Chloroethane	U	10.0	U	10.0	U	U
Chloroform	U	5.00	U	5.00	U	U
Chloromethane	U	10.0	U	10.0	U	U
2-Chlorotoluene	U	5.00	U	5.00	U	U
4-Chlorotoluene	U	5.00	U	5.00	U	U
p-Cymene (p-Isopropyltoluene)	U	5.00	U	5.00	U	U
Dibromochloromethane	U	5.00	U	5.00	U	U
1,2-Dibromo-3-Chloropropane	U	5.00	U	5.00	U	U
Dibromomethane	U	5.00	U	5.00	U	U
1,2-Dichlorobenzene	U	5.00	U	5.00	U	U

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Carlos Casero
Managing Director, Texas



Certificate of Analysis Summary 339883

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-06-09 08:45 am

Report Date: 18-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	339883-007	339883-008	339883-009	339883-010	339883-011
	Field Id:	GWP-12-50	GWP-13-50	GWP-13-58	GWP-14-50	GWP-14-58
Depth:						
Matrix:		WATER	WATER	WATER	WATER	WATER
Sampled:		Aug-04-09 17:00	Aug-05-09 10:15	Aug-05-09 12:15	Aug-05-09 14:25	Aug-05-09 15:50
Extracted:		Aug-08-09 13:06	Aug-08-09 13:12	Aug-08-09 13:18	Aug-07-09 15:46	Aug-07-09 15:46
Analyzed:		Aug-08-09 16:01	Aug-08-09 17:09	Aug-08-09 18:17	Aug-07-09 18:25	Aug-07-09 18:47
Units/RL:		ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL
1,3-Dichlorobenzene		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
1,4-Dichlorobenzene		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
Dichlorodifluoromethane		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
1,1-Dichloroethane		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
1,2-Dichloroethane		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
1,1-Dichloroethene		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
cis-1,2-Dichloroethene		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
trans-1,2-dichloroethene		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
1,2-Dichloropropane		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
1,3-Dichloropropane		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
2,2-Dichloropropane		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
1,1-Dichloropropene		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
cis-1,3-Dichloropropene		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
trans-1,3-dichloropropene		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
Bthylbenzene		U 5.00	79.8 5.00	2040 D 125.0	U 5.00	U 5.00
Hexachlorobutadiene		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
isopropylbenzene		U 5.00	4.26 J 5.00	68.8 10.0	U 5.00	U 5.00
Methylene Chloride		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
n-Propylbenzene		U 5.00	9.32 5.00	116 10.0	U 5.00	U 5.00
Styrene		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
1,1,1,2-Tetrachloroethane		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
1,1,1,2,2-Tetrachloroethane		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
Tetrachloroethylene		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00
Toluene		U 5.00	124 5.00	330 10.0	U 5.00	U 5.00
1,2,3-Trichlorobenzene		U 5.00	U 5.00	U 10.0	U 5.00	U 5.00

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Carlos Casero
Managing Director, Texas



Certificate of Analysis Summary 339883

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-06-09 08:45 am

Report Date: 18-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	339883-007	339883-008	339883-009	339883-010	339883-011
VOAs by SW-846 8260B				WATER	Aug-04-09 17:00	Aug-08-09 13:06	Aug-08-09 16:01	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
				WATER	Aug-05-09 12:15	Aug-08-09 13:18	Aug-08-09 18:17	RL	U 10.0	U 10.0	U 10.0	U 5.00	U 5.00
				WATER	Aug-05-09 14:25	Aug-07-09 15:46	Aug-07-09 18:25	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
				WATER	Aug-05-09 15:50	Aug-07-09 15:46	Aug-07-09 18:47	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,4-Trichlorobenzene				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,1-Trichloroethane				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,2-Trichloroethane				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Trichloroethene				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Trichlorofluoromethane				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,3-Trichloropropane				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,4-Trimethylbenzene				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,3,5-Trimethylbenzene				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
o-Xylene				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
m,p-Xylenes				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Vinyl Acetate				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Vinyl Chloride				WATER	Aug-05-09 10:15	Aug-08-09 13:12	Aug-08-09 17:09	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00

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Managing Director, Texas



**XENCO
CHRONOLOGY OF HOLDING TIMES**

Analytical Method : VOAs by SW-846 8260B

Client : URS Corporation-St. Louis

Work Order #: 339883

Project ID: Route 111 & Rand Ave Vicin

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
TB080309	Aug. 3, 2009	Aug. 6, 2009				Aug.7, 2009	14	4	P
GWP-14-58	Aug. 5, 2009	Aug. 6, 2009				Aug.7, 2009	14	2	P
GWP-12-58	Aug. 4, 2009	Aug. 6, 2009				Aug.7, 2009	14	3	P
GWP-12-50	Aug. 4, 2009	Aug. 6, 2009				Aug.8, 2009	14	4	P
GWP-9-58	Aug. 3, 2009	Aug. 6, 2009				Aug.8, 2009	14	5	P
GWP-10-58	Aug. 3, 2009	Aug. 6, 2009				Aug.8, 2009	14	5	P
GWP-13-50	Aug. 5, 2009	Aug. 6, 2009				Aug.8, 2009	14	3	P
GWP-14-50	Aug. 5, 2009	Aug. 6, 2009				Aug.7, 2009	14	2	P
GWP-13-58	Aug. 5, 2009	Aug. 6, 2009				Aug.8, 2009	14	3	P
GWP-9-50	Aug. 3, 2009	Aug. 6, 2009				Aug.8, 2009	14	5	P
GWP-10-50	Aug. 3, 2009	Aug. 6, 2009				Aug.8, 2009	14	5	P

F = These samples were analyzed outside the recommended holding time.
P = Samples analyzed within the recommended holding time.

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339883,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767952

Sample: 535046-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 11:18

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0488	0.0500	98	70-130	
Dibromofluoromethane	0.0551	0.0500	110	70-130	
1,2-Dichloroethane-D4	0.0511	0.0500	102	70-130	
Toluene-D8	0.0495	0.0500	99	70-130	

Lab Batch #: 767952

Sample: 535046-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 12:08

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0485	0.0500	97	70-130	
Dibromofluoromethane	0.0522	0.0500	104	70-130	
1,2-Dichloroethane-D4	0.0513	0.0500	103	70-130	
Toluene-D8	0.0455	0.0500	91	70-130	

Lab Batch #: 767952

Sample: 339467-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 13:25

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0508	0.0500	102	70-130	
Dibromofluoromethane	0.0542	0.0500	108	70-130	
1,2-Dichloroethane-D4	0.0498	0.0500	100	70-130	
Toluene-D8	0.0483	0.0500	97	70-130	

Lab Batch #: 767952

Sample: 339467-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 13:47

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0501	0.0500	100	70-130	
Dibromofluoromethane	0.0556	0.0500	111	70-130	
1,2-Dichloroethane-D4	0.0537	0.0500	107	70-130	
Toluene-D8	0.0481	0.0500	96	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339883,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767952

Sample: 339883-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 17:17

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0507	0.0500	101	70-130	
Dibromofluoromethane	0.0500	0.0500	100	70-130	
1,2-Dichloroethane-D4	0.0541	0.0500	108	70-130	
Toluene-D8	0.0458	0.0500	92	70-130	

Lab Batch #: 767952

Sample: 339883-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 17:39

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0491	0.0500	98	70-130	
Dibromofluoromethane	0.0559	0.0500	112	70-130	
1,2-Dichloroethane-D4	0.0561	0.0500	112	70-130	
Toluene-D8	0.0464	0.0500	93	70-130	

Lab Batch #: 767952

Sample: 339883-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 18:25

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0479	0.0500	96	70-130	
Dibromofluoromethane	0.0533	0.0500	107	70-130	
1,2-Dichloroethane-D4	0.0519	0.0500	104	70-130	
Toluene-D8	0.0462	0.0500	92	70-130	

Lab Batch #: 767952

Sample: 339883-011 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 18:47

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0480	0.0500	96	70-130	
Dibromofluoromethane	0.0547	0.0500	109	70-130	
1,2-Dichloroethane-D4	0.0529	0.0500	106	70-130	
Toluene-D8	0.0468	0.0500	94	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339883,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767952

Sample: 339883-004 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 19:56

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0491	0.0500	98	70-130	
Dibromofluoromethane	0.0532	0.0500	106	70-130	
1,2-Dichloroethane-D4	0.0538	0.0500	108	70-130	
Toluene-D8	0.0478	0.0500	96	70-130	

Lab Batch #: 767952

Sample: 339883-003 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/07/09 20:18

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0487	0.0500	97	70-130	
Dibromofluoromethane	0.0540	0.0500	108	70-130	
1,2-Dichloroethane-D4	0.0533	0.0500	107	70-130	
Toluene-D8	0.0467	0.0500	93	70-130	

Lab Batch #: 768128

Sample: 535140-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 13:39

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0502	0.0500	100	70-130	
Dibromofluoromethane	0.0537	0.0500	107	70-130	
1,2-Dichloroethane-D4	0.0529	0.0500	106	70-130	
Toluene-D8	0.0459	0.0500	92	70-130	

Lab Batch #: 768128

Sample: 535140-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 14:30

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0489	0.0500	98	70-130	
Dibromofluoromethane	0.0564	0.0500	113	70-130	
1,2-Dichloroethane-D4	0.0513	0.0500	103	70-130	
Toluene-D8	0.0480	0.0500	96	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339883,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768128

Sample: 339883-007 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 14:53

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0483	0.0500	97	70-130	
Dibromofluoromethane	0.0546	0.0500	109	70-130	
1,2-Dichloroethane-D4	0.0501	0.0500	100	70-130	
Toluene-D8	0.0479	0.0500	96	70-130	

Lab Batch #: 768128

Sample: 339883-007 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 15:16

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0486	0.0500	97	70-130	
Dibromofluoromethane	0.0562	0.0500	112	70-130	
1,2-Dichloroethane-D4	0.0561	0.0500	112	70-130	
Toluene-D8	0.0495	0.0500	99	70-130	

Lab Batch #: 768128

Sample: 339883-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 16:01

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0491	0.0500	98	70-130	
Dibromofluoromethane	0.0546	0.0500	109	70-130	
1,2-Dichloroethane-D4	0.0545	0.0500	109	70-130	
Toluene-D8	0.0469	0.0500	94	70-130	

Lab Batch #: 768128

Sample: 339883-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 16:24

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0487	0.0500	97	70-130	
Dibromofluoromethane	0.0532	0.0500	106	70-130	
1,2-Dichloroethane-D4	0.0502	0.0500	100	70-130	
Toluene-D8	0.0475	0.0500	95	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339883,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768128

Sample: 339883-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 16:46

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0491	0.0500	98	70-130	
Dibromofluoromethane	0.0547	0.0500	109	70-130	
1,2-Dichloroethane-D4	0.0542	0.0500	108	70-130	
Toluene-D8	0.0456	0.0500	91	70-130	

Lab Batch #: 768128

Sample: 339883-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 17:09

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0494	0.0500	99	70-130	
Dibromofluoromethane	0.0547	0.0500	109	70-130	
1,2-Dichloroethane-D4	0.0515	0.0500	103	70-130	
Toluene-D8	0.0479	0.0500	96	70-130	

Lab Batch #: 768128

Sample: 339883-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 17:31

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0509	0.0500	102	70-130	
Dibromofluoromethane	0.0546	0.0500	109	70-130	
1,2-Dichloroethane-D4	0.0499	0.0500	100	70-130	
Toluene-D8	0.0472	0.0500	94	70-130	

Lab Batch #: 768128

Sample: 339883-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 17:54

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0498	0.0500	100	70-130	
Dibromofluoromethane	0.0535	0.0500	107	70-130	
1,2-Dichloroethane-D4	0.0530	0.0500	106	70-130	
Toluene-D8	0.0478	0.0500	96	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339883,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768128

Sample: 339883-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/08/09 18:17

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0520	0.0500	104	70-130	
Dibromofluoromethane	0.0527	0.0500	105	70-130	
1,2-Dichloroethane-D4	0.0524	0.0500	105	70-130	
Toluene-D8	0.0473	0.0500	95	70-130	

Lab Batch #: 768350

Sample: 535279-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 12:35

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0498	0.0500	100	74-124	
Dibromofluoromethane	0.0478	0.0500	96	75-131	
1,2-Dichloroethane-D4	0.0498	0.0500	100	63-144	
Toluene-D8	0.0488	0.0500	98	80-117	

Lab Batch #: 768350

Sample: 535279-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 14:35

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0491	0.0500	98	74-124	
Dibromofluoromethane	0.0445	0.0500	89	75-131	
1,2-Dichloroethane-D4	0.0452	0.0500	90	63-144	
Toluene-D8	0.0481	0.0500	96	80-117	

Lab Batch #: 768350

Sample: 339883-009 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 17:46

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0499	0.0500	100	74-124	
Dibromofluoromethane	0.0436	0.0500	87	75-131	
1,2-Dichloroethane-D4	0.0511	0.0500	102	63-144	
Toluene-D8	0.0491	0.0500	98	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 339883,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768350

Sample: 340223-002 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 19:15

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0506	0.0500	101	74-124	
Dibromofluoromethane	0.0439	0.0500	88	75-131	
1,2-Dichloroethane-D4	0.0457	0.0500	91	63-144	
Toluene-D8	0.0507	0.0500	101	80-117	

Lab Batch #: 768350

Sample: 340223-002 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 19:37

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0509	0.0500	102	74-124	
Dibromofluoromethane	0.0468	0.0500	94	75-131	
1,2-Dichloroethane-D4	0.0470	0.0500	94	63-144	
Toluene-D8	0.0496	0.0500	99	80-117	

Lab Batch #: 768350

Sample: 339883-009 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 22:14

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0499	0.0500	100	74-124	
Dibromofluoromethane	0.0449	0.0500	90	75-131	
1,2-Dichloroethane-D4	0.0489	0.0500	98	63-144	
Toluene-D8	0.0503	0.0500	101	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 339883

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767952

Sample: 535046-1-BKS

Matrix: Water

Date Analyzed: 08/07/2009

Date Prepared: 08/07/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	602	120	60-140	
Benzene	<1.00	50.0	49.0	98	66-142	
Bromobenzene	<1.00	50.0	45.4	91	75-125	
Bromochloromethane	<1.00	50.0	56.1	112	73-125	
Bromodichloromethane	<1.00	50.0	52.6	105	75-125	
Bromoform	<1.00	50.0	52.2	104	75-125	
Bromomethane	<1.00	50.0	61.7	123	70-130	
2-Butanone	<10.0	500	580	116	60-140	
MTBE	<1.00	50.0	59.0	118	65-135	
n-Butylbenzene	<1.00	50.0	48.7	97	75-125	
Sec-Butylbenzene	<1.00	50.0	47.8	96	75-125	
tert-Butylbenzene	<1.00	50.0	48.0	96	75-125	
Carbon Disulfide	<10.0	500	495	99	60-140	
Carbon Tetrachloride	<1.00	50.0	51.6	103	62-125	
Chlorobenzene	<1.00	50.0	48.3	97	60-133	
Chloroethane	<2.00	50.0	62.3	125	70-130	
Chloroform	<1.00	50.0	56.7	113	74-125	
Chloromethane	<2.00	50.0	55.3	111	70-130	
2-Chlorotoluene	<1.00	50.0	47.1	94	73-125	
4-Chlorotoluene	<1.00	50.0	47.2	94	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	47.2	94	75-125	
Dibromochloromethane	<1.00	50.0	51.5	103	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	49.9	100	59-125	
Dibromomethane	<1.00	50.0	50.7	101	69-127	
1,2-Dichlorobenzene	<1.00	50.0	48.0	96	75-125	
1,3-Dichlorobenzene	<1.00	50.0	46.4	93	75-125	
1,4-Dichlorobenzene	<1.00	50.0	45.8	92	75-125	
Dichlorodifluoromethane	<1.00	50.0	61.0	122	70-130	
1,1-Dichloroethane	<1.00	50.0	58.3	117	72-125	
1,2-Dichloroethane	<1.00	50.0	52.4	105	68-127	
1,1-Dichloroethene	<1.00	50.0	54.5	109	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	55.9	112	75-125	
trans-1,2-dichloroethene	<1.00	50.0	55.5	111	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 339883

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 767952

Sample: 535046-1-BKS

Matrix: Water

Date Analyzed: 08/07/2009

Date Prepared: 08/07/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	53.6	107	74-125	
1,3-Dichloropropane	<1.00	50.0	47.5	95	75-125	
2,2-Dichloropropane	<1.00	50.0	63.4	127	75-125	H
1,1-Dichloropropene	<1.00	50.0	51.8	104	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	47.4	95	74-125	
trans-1,3-dichloropropene	<1.00	50.0	46.4	93	66-125	
Ethylbenzene	<1.00	50.0	49.9	100	75-125	
Hexachlorobutadiene	<1.00	50.0	46.3	93	75-125	
isopropylbenzene	<1.00	50.0	51.2	102	75-125	
Methylene Chloride	<1.00	50.0	55.1	110	75-125	
n-Propylbenzene	<1.00	50.0	47.1	94	75-125	
Styrene	<1.00	50.0	52.0	104	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	53.9	108	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	55.5	111	74-125	
Tetrachloroethylene	<1.00	50.0	45.5	91	71-125	
Toluene	<1.00	50.0	47.5	95	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	49.0	98	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	47.2	94	75-135	
1,1,1-Trichloroethane	<1.00	50.0	55.0	110	75-125	
1,1,2-Trichloroethane	<1.00	50.0	48.6	97	75-127	
Trichloroethene	<1.00	50.0	47.4	95	62-137	
Trichlorofluoromethane	<1.00	50.0	55.6	111	67-125	
1,2,3-Trichloropropane	<1.00	50.0	52.5	105	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	47.6	95	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	47.5	95	70-125	
o-Xylene	<1.00	50.0	53.2	106	75-125	
m,p-Xylenes	<2.00	100	99.0	99	75-125	
Vinyl Acetate	<10.0	500	588	118	60-140	
Vinyl Chloride	<0.400	50.0	58.0	116	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 339883

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768128

Sample: 535140-1-BKS

Matrix: Water

Date Analyzed: 08/08/2009

Date Prepared: 08/08/2009

Analyst: KHM

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	572	114	60-140	
Benzene	<1.00	50.0	47.6	95	66-142	
Bromobenzene	<1.00	50.0	40.8	82	75-125	
Bromochloromethane	<1.00	50.0	51.0	102	73-125	
Bromodichloromethane	<1.00	50.0	50.2	100	75-125	
Bromoform	<1.00	50.0	47.0	94	75-125	
Bromomethane	<1.00	50.0	55.3	111	70-130	
2-Butanone	<10.0	500	560	112	60-140	
MTBE	<1.00	50.0	54.6	109	65-135	
n-Butylbenzene	<1.00	50.0	46.9	94	75-125	
Sec-Butylbenzene	<1.00	50.0	45.8	92	75-125	
tert-Butylbenzene	<1.00	50.0	45.0	90	75-125	
Carbon Disulfide	<10.0	500	476	95	60-140	
Carbon Tetrachloride	<1.00	50.0	54.1	108	62-125	
Chlorobenzene	<1.00	50.0	43.8	88	60-133	
Chloroethane	<2.00	50.0	58.0	116	70-130	
Chloroform	<1.00	50.0	53.6	107	74-125	
Chloromethane	<2.00	50.0	47.4	95	70-130	
2-Chlorotoluene	<1.00	50.0	42.2	84	73-125	
4-Chlorotoluene	<1.00	50.0	42.5	85	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	45.3	91	75-125	
Dibromochloromethane	<1.00	50.0	46.1	92	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	46.2	92	59-125	
Dibromomethane	<1.00	50.0	47.4	95	69-127	
1,2-Dichlorobenzene	<1.00	50.0	43.5	87	75-125	
1,3-Dichlorobenzene	<1.00	50.0	43.9	88	75-125	
1,4-Dichlorobenzene	<1.00	50.0	42.1	84	75-125	
Dichlorodifluoromethane	<1.00	50.0	50.5	101	70-130	
1,1-Dichloroethane	<1.00	50.0	54.3	109	72-125	
1,2-Dichloroethane	<1.00	50.0	49.5	99	68-127	
1,1-Dichloroethene	<1.00	50.0	52.1	104	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	50.5	101	75-125	
trans-1,2-dichloroethene	<1.00	50.0	52.8	106	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 339883

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768128

Sample: 535140-1-BKS

Matrix: Water

Date Analyzed: 08/08/2009

Date Prepared: 08/08/2009

Analyst: KHM

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	48.8	98	74-125	
1,3-Dichloropropane	<1.00	50.0	44.2	88	75-125	
2,2-Dichloropropane	<1.00	50.0	60.0	120	75-125	
1,1-Dichloropropene	<1.00	50.0	51.3	103	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	44.7	89	74-125	
trans-1,3-dichloropropene	<1.00	50.0	42.0	84	66-125	
Ethylbenzene	<1.00	50.0	47.0	94	75-125	
Hexachlorobutadiene	<1.00	50.0	44.9	90	75-125	
isopropylbenzene	<1.00	50.0	49.2	98	75-125	
Methylene Chloride	<1.00	50.0	49.4	99	75-125	
n-Propylbenzene	<1.00	50.0	44.4	89	75-125	
Styrene	<1.00	50.0	48.4	97	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	50.0	100	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	50.7	101	74-125	
Tetrachloroethylene	<1.00	50.0	45.2	90	71-125	
Toluene	<1.00	50.0	43.9	88	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	44.6	89	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	42.9	86	75-135	
1,1,1-Trichloroethane	<1.00	50.0	54.1	108	75-125	
1,1,2-Trichloroethane	<1.00	50.0	43.6	87	75-127	
Trichloroethene	<1.00	50.0	48.4	97	62-137	
Trichlorofluoromethane	<1.00	50.0	57.4	115	67-125	
1,2,3-Trichloropropane	<1.00	50.0	47.9	96	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	44.4	89	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	45.0	90	70-125	
o-Xylene	<1.00	50.0	47.3	95	75-125	
m,p-Xylenes	<2.00	100	91.7	92	75-125	
Vinyl Acetate	<10.0	500	564	113	60-140	
Vinyl Chloride	<0.400	50.0	51.4	103	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 339883

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768350

Sample: 535279-1-BKS

Matrix: Water

Date Analyzed: 08/10/2009

Date Prepared: 08/10/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Ethylbenzene	<1.000	50.00	53.40	107	75-125	
1,2,4-Trimethylbenzene	<1.000	50.00	56.00	112	75-125	
o-Xylene	<1.000	50.00	55.40	111	75-125	
m,p-Xylenes	<2.000	100.0	108.0	108	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339883

Lab Batch ID: 767952

Date Analyzed: 08/07/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 339467-001 S

Date Prepared: 08/07/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
VOAs by SW-846 8260B											
Acetone	<10000	50000	20800	42	50000	21400	43	3	60-140	21	X
Benzene	10100	5000	13400	66	5000	13300	64	1	66-142	21	X
Bromobenzene	<500	5000	3640	73	5000	3650	73	0	75-125	20	X
Bromochloromethane	<500	5000	4790	96	5000	4890	98	2	73-125	20	
Bromodichloromethane	<500	5000	4250	85	5000	4320	90	6	75-125	20	
Bromoform	<500	5000	4050	81	5000	4350	87	7	75-125	20	
Bromomethane	<500	5000	5050	101	5000	5630	113	11	70-130	20	
2-Butanone	<5000	50000	31700	63	50000	31700	63	0	60-140	20	
MTBE	<500	5000	5380	108	5000	5670	113	5	65-135	20	
n-Butylbenzene	<500	5000	3460	69	5000	3540	71	2	75-125	20	X
Sec-Butylbenzene	<500	5000	3400	68	5000	3350	67	1	75-125	20	X
tert-Butylbenzene	<500	5000	3410	68	5000	3460	69	1	75-125	20	X
Carbon Disulfide	<5000	50000	36200	72	50000	37800	76	4	60-140	20	
Carbon Tetrachloride	<500	5000	3510	70	5000	3780	76	7	62-125	20	
Chlorobenzene	<500	5000	3600	72	5000	3730	75	4	60-133	21	
Chloroethane	<1000	5000	5450	109	5000	6160	123	12	70-130	20	
Chloroform	<500	5000	3990	80	5000	4200	84	5	74-125	20	
Chloromethane	<1000	5000	5920	118	5000	6460	129	9	70-130	20	
2-Chlorotoluene	<500	5000	3340	67	5000	3350	67	0	73-125	20	X
4-Chlorotoluene	<500	5000	3540	71	5000	3600	72	2	74-125	20	X
p-Cymene (p-Isopropyltoluene)	<500	5000	3520	70	5000	3540	71	1	75-125	20	X
Dibromochloromethane	<500	5000	3590	72	5000	3740	75	4	73-125	20	X
1,2-Dibromo-3-Chloropropane	<500	5000	4030	81	5000	4460	89	10	59-125	28	

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 339883

Lab Batch ID: 767952

Date Analyzed: 08/07/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 339467-001 S

Date Prepared: 08/07/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dibromomethane	<500	5000	4110	82	5000	4310	86	5	69-127	23	
1,2-Dichlorobenzene	<500	5000	3760	75	5000	3810	76	1	75-125	20	
1,3-Dichlorobenzene	<500	5000	3870	77	5000	3870	77	0	75-125	20	
1,4-Dichlorobenzene	<500	5000	3370	67	5000	3500	70	4	75-125	20	X
Dichlorodifluoromethane	<500	5000	8840	177	5000	9480	190	7	70-130	23	X
1,1-Dichloroethane	<500	5000	4200	84	5000	4390	88	4	72-125	20	
1,2-Dichloroethane	<500	5000	4420	88	5000	4510	90	2	68-127	20	
1,1-Dichloroethene	<500	5000	3810	76	5000	4130	83	8	59-172	22	
cis-1,2-Dichloroethene	<500	5000	4370	87	5000	4460	89	2	75-125	20	
trans-1,2-dichloroethene	<500	5000	3710	74	5000	3800	76	2	75-125	20	X
1,2-Dichloropropane	<500	5000	4170	83	5000	4400	88	5	74-125	20	
1,3-Dichloropropane	<500	5000	4270	85	5000	4350	87	2	75-125	20	
2,2-Dichloropropane	<500	5000	4010	80	5000	4240	85	6	75-125	20	
1,1-Dichloropropene	<500	5000	3590	72	5000	3790	76	5	75-125	20	X
cis-1,3-Dichloropropene	<500	5000	3970	79	5000	3980	80	0	74-125	20	
trans-1,3-dichloropropene	<500	5000	3710	74	5000	3690	74	1	66-125	20	
Ethylbenzene	2980	5000	6670	74	5000	6630	73	1	75-125	20	X
Hexachlorobutadiene	<500	5000	3100	62	5000	3080	62	1	75-125	20	X
isopropylbenzene	<500	5000	3580	72	5000	3700	74	3	75-125	20	X
Methylene Chloride	415	5000	4360	79	5000	4580	83	5	75-125	35	
n-Propylbenzene	132	5000	3520	68	5000	3550	68	1	75-125	20	X
Styrene	<500	5000	4250	85	5000	4410	88	4	75-125	51	
1,1,1,2-Tetrachloroethane	<500	5000	3770	75	5000	3970	79	5	72-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 339883

Lab Batch ID: 767952

Date Analyzed: 08/07/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 339467-001 S

Date Prepared: 08/07/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

VOAs by SW-846 8260B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<500	5000	4280	86	5000	4360	87	2	74-125	31	
Tetrachloroethylene	<500	5000	3320	66	5000	3350	67	1	71-125	20	X
Toluene	17200	5000	21000	76	5000	20400	64	3	59-139	21	
1,2,3-Trichlorobenzene	<500	5000	3960	79	5000	4110	82	4	75-137	20	
1,2,4-Trichlorobenzene	<500	5000	3600	72	5000	3800	76	5	75-135	20	X
1,1,1-Trichloroethane	<500	5000	3870	77	5000	4010	80	4	75-125	20	
1,1,2-Trichloroethane	<500	5000	4080	82	5000	4080	82	0	75-127	20	
Trichloroethene	<500	5000	3550	71	5000	3720	74	5	62-137	24	
Trichlorofluoromethane	<500	5000	5600	112	5000	6190	124	10	67-125	20	
1,2,3-Trichloropropane	<500	5000	4340	87	5000	4510	90	4	75-125	20	
1,2,4-Trimethylbenzene	769	5000	4350	72	5000	4390	72	1	75-125	20	X
1,3,5-Trimethylbenzene	177	5000	3660	70	5000	3660	70	0	70-125	20	
o-Xylene	3160	5000	6680	70	5000	6710	71	0	75-125	20	X
m,p-Xylenes	6130	10000	13300	72	10000	13500	74	1	75-125	20	X
Vinyl Acetate	<5000	50000	32000	64	50000	33100	66	3	60-140	20	
Vinyl Chloride	<200	5000	6010	120	5000	6500	130	8	75-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Inference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 339883

Lab Batch ID: 768128

Date Analyzed: 08/08/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 339883-007 S

Date Prepared: 08/08/2009

Batch #: 1

Analyst: KHM

Matrix: Water

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										Flag
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	
Acetone	45.8	50.0	247	40	500	256	42	4	60-140	21	X
Benzene	22.1	50.0	55.4	67	50.0	58.7	73	6	66-142	21	
Bromobenzene	<5.00	50.0	33.2	66	50.0	35.2	70	6	75-125	20	X
Bromochloromethane	<5.00	50.0	35.4	71	50.0	39.1	78	10	73-125	20	X
Bromodichloromethane	<5.00	50.0	42.3	85	50.0	44.6	89	5	75-125	20	
Bromoform	<5.00	50.0	40.1	80	50.0	44.4	89	10	75-125	20	
Bromomethane	<5.00	50.0	25.4	51	50.0	28.2	56	10	70-130	20	X
2-Butanone	13.1	500	328	63	500	326	63	1	60-140	20	
MTBE	<5.00	50.0	44.7	89	50.0	46.6	93	4	65-135	20	
n-Butylbenzene	<5.00	50.0	38.3	77	50.0	40.8	82	6	75-125	20	
Sec-Butylbenzene	<5.00	50.0	38.8	78	50.0	42.2	84	8	75-125	20	
tert-Butylbenzene	<5.00	50.0	39.1	78	50.0	42.1	84	7	75-125	20	
Carbon Disulfide	<5.00	500	147	29	500	164	33	11	60-140	20	X
Carbon Tetrachloride	<5.00	50.0	39.2	78	50.0	45.6	91	15	62-125	20	
Chlorobenzene	<5.00	50.0	34.7	69	50.0	37.5	75	8	60-133	21	
Chloroethane	<10.0	50.0	33.3	67	50.0	36.1	72	8	70-130	20	X
Chloroform	<5.00	50.0	43.0	86	50.0	46.3	93	7	74-125	20	
Chloromethane	<10.0	50.0	20.6	41	50.0	24.6	49	18	70-130	20	X
2-Chlorotoluene	<5.00	50.0	35.5	71	50.0	37.0	74	4	73-125	20	X
4-Chlorotoluene	<5.00	50.0	35.3	71	50.0	37.1	74	5	74-125	20	X
p-Cymene (p-Isopropyltoluene)	<5.00	50.0	37.0	74	50.0	40.3	81	9	75-125	20	X
Dibromochloromethane	<5.00	50.0	39.7	79	50.0	41.5	83	4	73-125	20	
1,2-Dibromo-3-Chloropropane	<5.00	50.0	43.0	86	50.0	47.6	95	10	59-125	28	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference RPD = 200*((C-F)/(C+F))
 ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not
 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 339883

Lab Batch ID: 768128

Date Analyzed: 08/08/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 339883-007 S

Date Prepared: 08/08/2009

Batch #: 1

Analyst: KHM

Matrix: Water

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dibromomethane	<5.00	50.0	36.5	73	50.0	37.9	76	4	69-127	23	
1,2-Dichlorobenzene	<5.00	50.0	35.8	72	50.0	39.4	79	10	75-125	20	X
1,3-Dichlorobenzene	<5.00	50.0	35.8	72	50.0	37.5	75	5	75-125	20	X
1,4-Dichlorobenzene	<5.00	50.0	34.6	69	50.0	37.3	75	8	75-125	20	X
Dichlorodifluoromethane	<5.00	50.0	37.4	75	50.0	39.3	79	5	70-130	23	
1,1-Dichloroethane	<5.00	50.0	40.8	82	50.0	44.6	89	9	72-125	20	
1,2-Dichloroethane	<5.00	50.0	37.9	76	50.0	40.0	80	5	68-127	20	
1,1-Dichloroethene	<5.00	50.0	32.5	65	50.0	37.7	75	15	59-172	22	
cis-1,2-Dichloroethene	<5.00	50.0	37.1	74	50.0	41.3	83	11	75-125	20	X
trans-1,2-dichloroethene	<5.00	50.0	30.6	61	50.0	33.9	68	10	75-125	20	X
1,2-Dichloropropane	<5.00	50.0	38.7	77	50.0	40.9	82	6	74-125	20	
1,3-Dichloropropane	<5.00	50.0	35.4	71	50.0	37.1	74	5	75-125	20	X
2,2-Dichloropropane	<5.00	50.0	48.7	97	50.0	54.8	110	12	75-125	20	
1,1-Dichloropropene	<5.00	50.0	32.5	65	50.0	36.0	72	10	75-125	20	X
cis-1,3-Dichloropropene	<5.00	50.0	37.5	75	50.0	37.6	75	0	74-125	20	
trans-1,3-dichloropropene	<5.00	50.0	34.7	69	50.0	35.5	71	2	66-125	20	
Ethylbenzene	<5.00	50.0	35.7	71	50.0	39.2	78	9	75-125	20	X
Hexachloro butadiene	<5.00	50.0	37.4	75	50.0	41.4	83	10	75-125	20	
isopropylbenzene	<5.00	50.0	40.3	81	50.0	44.4	89	10	75-125	20	
Methylene Chloride	<5.00	50.0	34.6	69	50.0	37.1	74	7	75-125	35	X
n-Propylbenzene	<5.00	50.0	35.2	70	50.0	39.6	79	12	75-125	20	X
Styrene	<5.00	50.0	37.2	74	50.0	38.7	77	4	75-125	51	X
1,1,1,2-Tetrachloroethane	<5.00	50.0	42.8	86	50.0	47.2	94	10	72-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 339883

Lab Batch ID: 768128

Date Analyzed: 08/08/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 339883-007 S

Date Prepared: 08/08/2009

Batch #: 1

Analyst: KHM

Matrix: Water

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<5.00	50.0	48.7	97	50.0	51.1	102	5	74-125	31	
Tetrachloroethylene	<5.00	50.0	29.4	59	50.0	31.9	64	8	71-125	20	X
Toluene	<5.00	50.0	31.1	62	50.0	35.4	71	13	59-139	21	
1,2,3-Trichlorobenzene	<5.00	50.0	36.3	73	50.0	40.3	81	10	75-137	20	X
1,2,4-Trichlorobenzene	<5.00	50.0	34.6	69	50.0	37.3	75	8	75-135	20	X
1,1,1-Trichloroethane	<5.00	50.0	43.5	87	50.0	49.6	99	13	75-125	20	
1,1,2-Trichloroethane	<5.00	50.0	38.1	76	50.0	39.3	79	3	75-127	20	
Trichloroethene	<5.00	50.0	33.9	68	50.0	35.2	70	4	62-137	24	
Trichlorofluoromethane	<5.00	50.0	36.2	72	50.0	42.3	85	16	67-125	20	
1,2,3-Trichloropropane	<5.00	50.0	43.9	88	50.0	46.7	93	6	75-125	20	
1,2,4-Trimethylbenzene	<5.00	50.0	34.3	69	50.0	36.9	74	7	75-125	20	X
1,3,5-Trimethylbenzene	<5.00	50.0	35.2	70	50.0	37.7	75	7	70-125	20	
o-Xylene	<5.00	50.0	35.5	71	50.0	39.8	80	11	75-125	20	X
m,p-Xylenes	<10.0	100	69.7	70	100	73.2	73	5	75-125	20	X
Vinyl Acetate	<50.0	500	451	90	500	460	92	2	60-140	20	
Vinyl Chloride	<2.00	50.0	27.8	56	50.0	31.2	62	12	75-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 339883

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch ID: 768350

QC- Sample ID: 340223-002 S Batch #: 1 Matrix: Water

Date Analyzed: 08/10/2009

Date Prepared: 08/10/2009 Analyst: ZHO

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOAs by SW-846 8260B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Ethylbenzene	<1.00	50.0	47.6	95	50.0	53.0	106	11	75-125	20	
1,2,4-Trimethylbenzene	<5.00	50.0	46.8	94	50.0	53.0	106	12	75-125	20	
o-Xylene	<1.00	50.0	45.3	91	50.0	49.2	98	8	75-125	20	
m,p-Xylenes	<2.00	100	94.8	95	100	106	106	11	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
4143 Greenbrier Dr., Stafford, TX 77477
XENCO TEL: 281-261-6200 FAX: 281-261-6280

- CALCSCIENCE ()
- TEST AMERICA ()
- SPL ()
- OTHER ()

- Please Check Appropriate Box:
- ENV. SERVICES
 - MOTIVA SD&CM
 - SHELL PIPELINE
 - MOTIVA RETAIL
 - CONSULTANT
 - SHELL RETAIL
 - LUBES
 - OTHER

Print/Bill To Contact Name:

KEVIN DYER

PO #

SAP #

INCIDENT # (ENV SERVICES)

9 7 2 1 6 6 4 0

DATE: 08/05/09

PAGE 1 of 2

CONSULTANT COMPANY:

URS CORPORATION

900 S. CENTRAL AVENUE, ROXANA, ILLINOIS 62084

170 E. RAND AVENUE

CONSULTANT PROJECT NAME / NO.:

ST. LOUIS, MISSOURI 63110

HARTFORD, ILLINOIS 62048

Route 111 & Rand Ave. Vicinity / 21561979

WENDY PENNINGTON

LAB USE ONLY

N. SATAM

339883-1

TELEPHONE: OFF: 314-743-4166

CELL: 314-452-8929

FAX:

EMAIL: wendy.pennington@urscorp.com

TURNDOWN TIME (CALENDAR DAYS):

STANDARD (10 DAY)

5 DAYS

24 HOURS

RESULTS NEEDED ON WEEKEND

DELIVERABLES: LEVEL 1

LEVEL 2

LEVEL 3

LEVEL 4

EDD

TEMPERATURE ON RECEIPT: C°

Cooler #1

Cooler #3

SPECIAL INSTRUCTIONS OR NOTES:

SHELL CONTRACT RATE APPLIES

Please include "J" values on Level 2 Reports

Please provide sample receipt upon login.

REQUESTED ANALYSIS

LAB USE ONLY	FIELD SAMPLE IDENTIFICATION	SAMPLING DATE	TIME	MATRIX	PRESERVATIVE	HCL	HN03	H2SO4	NONE	OTHER	NO. OF CONT.	VOC 8260B	SVOC/PAH 8270B	moisture	PID (ppm)	Laboratory Notes
	GWP-9-50	8/3/9	1036	Water		X					3	X				
	GWP-9-58	8/3/9	1200			X					3	X				
	GWP-10-50	8/3/9	1550			X					3	X				
	GWP-10-58	8/3/9	1715			X					3	X				
	WGP-10-58										2	X				
	GWP-12-58	8/4/9	1515			X					3	X				
	GWP-12-50	8/4/9	1700			X					3	X				
	GWP-13-50	8/5/9	1015			X					3	X				
	GWP-13-58	8/5/9	1215			X					3	X				
	GWP-14-50	8/5/9	1425			X					3	X				

Relinquished by: (Signature) *N. Satam*

Date: 08/05/09 Time: 1800

Relinquished by: (Signature)

FED EX

Date: 8/6/09

Relinquished by: (Signature) *Kevin Dyer*

Date: 8/6/09 Time: 0845



Handwritten initials/signature in a circle

Prelogin / Nonconformance Report - Sample Log-In

Client: AKS CORPORATION
 Date/Time: 08/06/09
 Lab ID #: 339883
 Initials: Q.M.

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when-relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 340156

Reviewer: Tony Sedlacek

Date Reviewed: 1/5/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-15-50EB	GWP-15-50
GWP-15-58	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative and cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 340156

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Ave

Route 111 & Rand Ave Vicinity/21561979

10-AUG-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

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10-AUG-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **340156**
900 S. Central Ave
Project Address: Roxana, IL

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 340156. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 340156 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Sample Cross Reference 340156



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Ave

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-15-50EB	W	Aug-06-09 13:15		340156-001
GWP-15-50	W	Aug-06-09 15:15		340156-002
GWP-15-58	W	Aug-06-09 16:30		340156-003

CASE NARRATIVE



Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Ave

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 340156

Report Date: 10-AUG-09
Date Received: 08/07/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-768103 SVOCs by SW-846 8270C

None



Certificate of Analysis Summary 340156

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL

Date Received in Lab: Fri Aug-07-09 09:30 am

Report Date: 10-AUG-09

Project Manager: Debbie Simmons

Project Name: 900 S. Central Ave

Analysis Requested	Lab Id:	340156-001	340156-002	340156-003
	Field Id:	GWP-15-50EB	GWP-15-50	GWP-15-58
Depth:				
Matrix:	WATER	WATER	WATER	WATER
Sampled:	Aug-06-09 13:15	Aug-06-09 15:15	Aug-06-09 16:30	
Extracted:	Aug-07-09 11:42	Aug-07-09 11:45	Aug-07-09 11:48	
Analyzed:	Aug-10-09 13:38	Aug-10-09 14:17	Aug-10-09 14:55	
Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Acenaphthene	U 0.005	U 0.005	U 0.005	U 0.005
Acenaphthylene	U 0.005	U 0.005	U 0.005	U 0.005
Aniline (Phenylamine, Aminobenzene)	U 0.022	U 0.022	U 0.020	U 0.020
Anthracene	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(a)anthracene	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(a)pyrene	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(b)fluoranthene	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(k)fluoranthene	U 0.005	U 0.005	U 0.005	U 0.005
Benzo(g,h,i)perylene	U 0.005	U 0.005	U 0.005	U 0.005
Benzoic Acid	U 0.032	U 0.033	U 0.030	U 0.030
Benzyl Butyl Phthalate	U 0.005	U 0.005	U 0.005	U 0.005
bis(2-chloroethoxy) methane	U 0.011	U 0.011	U 0.010	U 0.010
bis(2-chloroethyl) ether	U 0.011	U 0.011	U 0.010	U 0.010
bis(2-chloroisopropyl) ether	U 0.011	U 0.011	U 0.010	U 0.010
bis(2-ethylhexyl) phthalate	U 0.005	U 0.005	U 0.005	U 0.005
4-Bromophenyl-phenylether	U 0.011	U 0.011	U 0.010	U 0.010
4-chloro-3-methylphenol	U 0.011	U 0.011	U 0.010	U 0.010
4-Chloroaniline	U 0.022	U 0.022	U 0.020	U 0.020
2-Chloronaphthalene	U 0.011	U 0.011	U 0.010	U 0.010
2-Chlorophenol	U 0.011	U 0.011	U 0.010	U 0.010
4-Chlorophenyl Phenyl Ether	U 0.011	U 0.011	U 0.010	U 0.010
Chrysene	U 0.005	U 0.005	U 0.005	U 0.005
Di-benz(a,h)anthracene	U 0.005	U 0.005	U 0.005	U 0.005
Dibenzofuran	U 0.011	U 0.011	U 0.010	U 0.010
di-n-Butyl Phthalate	U 0.005	U 0.005	U 0.005	U 0.005

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 340156

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL

Date Received in Lab: Fri Aug-07-09 09:30 am

Report Date: 10-AUG-09

Project Manager: Debbie Simmons

Project Name: 900 S. Central Ave

Analysis Requested	Lab Id:	340156-001	340156-002	340156-003
	Field Id:	GWP-15-50EB	GWP-15-50	GWP-15-58
	Depth:			
	Matrix:	WATER	WATER	WATER
	Sampled:	Aug-06-09 13:15	Aug-06-09 15:15	Aug-06-09 16:30
SVOAs by SW-846 8270C	Extracted:	Aug-07-09 11:42	Aug-07-09 11:45	Aug-07-09 11:48
	Analyzed:	Aug-10-09 13:38	Aug-10-09 14:17	Aug-10-09 14:55
	Units/RL:	mg/L RL	mg/L RL	mg/L RL
3,3-Dichlorobenzidine		U 0.011	U 0.011	U 0.010
2,4-Dichlorophenol		U 0.011	U 0.011	U 0.010
Diethyl Phthalate		U 0.005	U 0.005	U 0.005
Dimethyl Phthalate		U 0.005	U 0.005	U 0.005
2,4-Dimethylphenol		U 0.011	U 0.011	U 0.010
4,6-dinitro-2-methyl phenol		U 0.011	U 0.011	U 0.010
2,4-Dinitrophenol		U 0.011	U 0.011	U 0.010
2,4-Dinitrotoluene		U 0.011	U 0.011	U 0.010
2,6-Dinitrotoluene		U 0.011	U 0.011	U 0.010
di-n-Octyl Phthalate		U 0.005	U 0.005	U 0.005
Fluoranthene		U 0.005	U 0.005	U 0.005
Fluorene		U 0.005	U 0.005	U 0.005
Hexachlorobenzene		U 0.011	U 0.011	U 0.010
Hexachlorocyclopentadiene		U 0.011	U 0.011	U 0.010
Hexachloroethane		U 0.011	U 0.011	U 0.010
Indeno(1,2,3-c,d)Pyrene		U 0.005	U 0.005	U 0.005
Isophorone		U 0.011	U 0.011	U 0.010
2-Methylnaphthalene		U 0.005	U 0.005	U 0.005
2-methylphenol		U 0.011	U 0.011	U 0.010
3&4-Methylphenol		U 0.011	U 0.011	U 0.010
Naphthalene		U 0.005	U 0.005	U 0.005
2-Nitroaniline		U 0.011	U 0.011	U 0.010
3-Nitroaniline		U 0.011	U 0.011	U 0.010
4-Nitroaniline		U 0.022	U 0.022	U 0.020
Nitrobenzene		U 0.011	U 0.011	U 0.010

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 340156

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL

Date Received in Lab: Fri Aug-07-09 09:30 am

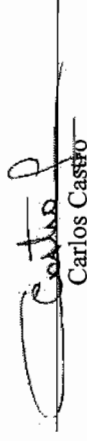
Report Date: 10-AUG-09

Project Manager: Debbie Simmons

<i>Analysis Requested</i>		Lab Id:	340156-001	340156-002	340156-003
		Field Id:	GWP-15-50EB	GWP-15-50	GWP-15-58
		Depth:			
		Matrix:	WATER	WATER	WATER
		Sampled:	Aug-06-09 13:15	Aug-06-09 15:15	Aug-06-09 16:30
SVOAs by SW-846 8270C		Extracted:	Aug-07-09 11:42	Aug-07-09 11:45	Aug-07-09 11:48
		Analyzed:	Aug-10-09 13:38	Aug-10-09 14:17	Aug-10-09 14:55
		Units/RL:	mg/L RL	mg/L RL	mg/L RL
2-Nitrophenol			U 0.011	U 0.011	U 0.010
4-Nitrophenol			U 0.011	U 0.011	U 0.010
N-Nitrosodi-n-Propylamine			U 0.011	U 0.011	U 0.010
N-Nitrosodiphenylamine			U 0.011	U 0.011	U 0.010
Pentachlorophenol			U 0.011	U 0.011	U 0.010
Phenanthrene			U 0.005	U 0.005	U 0.005
Phenol			U 0.011	U 0.011	U 0.010
Pyrene			U 0.005	U 0.005	U 0.005
Pyridine			U 0.011	U 0.011	U 0.010
2,4,5-Trichlorophenol			U 0.011	U 0.011	U 0.010
2,4,6-Trichlorophenol			U 0.011	U 0.011	U 0.010

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Carlos Castro

Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : SVOAs by SW-846 8270C

Client : URS Corporation-St. Louis

Work Order #: 340156

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-15-50EB	Aug. 6, 2009	Aug. 7, 2009	Aug. 7, 2009	7	1	Aug.10, 2009	40	3	P
GWP-15-50	Aug. 6, 2009	Aug. 7, 2009	Aug. 7, 2009	7	1	Aug.10, 2009	40	3	P
GWP-15-58	Aug. 6, 2009	Aug. 7, 2009	Aug. 7, 2009	7	1	Aug.10, 2009	40	3	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
 - JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Ave

Work Orders : 340156,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768103

Sample: 535064-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 11:44

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.043	0.050	86	43-116	
2-Fluorophenol	0.031	0.050	62	21-100	
Nitrobenzene-d5	0.038	0.050	76	35-114	
Phenol-d6	0.018	0.050	36	10-94	
Terphenyl-D14	0.049	0.050	98	33-141	
2,4,6-Tribromophenol	0.029	0.050	58	10-123	

Lab Batch #: 768103

Sample: 535064-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 12:22

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.046	0.050	92	43-116	
2-Fluorophenol	0.035	0.050	70	21-100	
Nitrobenzene-d5	0.046	0.050	92	35-114	
Phenol-d6	0.026	0.050	52	10-94	
Terphenyl-D14	0.054	0.050	108	33-141	
2,4,6-Tribromophenol	0.040	0.050	80	10-123	

Lab Batch #: 768103

Sample: 535064-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/10/09 13:00

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.046	0.050	92	43-116	
2-Fluorophenol	0.036	0.050	72	21-100	
Nitrobenzene-d5	0.045	0.050	90	35-114	
Phenol-d6	0.026	0.050	52	10-94	
Terphenyl-D14	0.053	0.050	106	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Ave

Work Orders : 340156,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768103

Sample: 340156-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 08/10/09 13:38		SURROGATE RECOVERY STUDY				
SVOAs by SW-846 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		0.045	0.054	83	43-116	
2-Fluorophenol		0.024	0.054	44	21-100	
Nitrobenzene-d5		0.039	0.054	72	35-114	
Phenol-d6		0.011	0.054	20	10-94	
Terphenyl-D14		0.048	0.054	89	33-141	
2,4,6-Tribromophenol		0.031	0.054	57	10-123	

Lab Batch #: 768103

Sample: 340156-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 08/10/09 14:17		SURROGATE RECOVERY STUDY				
SVOAs by SW-846 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		0.045	0.054	83	43-116	
2-Fluorophenol		0.023	0.054	43	21-100	
Nitrobenzene-d5		0.040	0.054	74	35-114	
Phenol-d6		0.011	0.054	20	10-94	
Terphenyl-D14		0.048	0.054	89	33-141	
2,4,6-Tribromophenol		0.036	0.054	67	10-123	

Lab Batch #: 768103

Sample: 340156-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 08/10/09 14:55		SURROGATE RECOVERY STUDY				
SVOAs by SW-846 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		0.042	0.050	84	43-116	
2-Fluorophenol		0.021	0.050	42	21-100	
Nitrobenzene-d5		0.036	0.050	72	35-114	
Phenol-d6		0.015	0.050	30	10-94	
Terphenyl-D14		0.046	0.050	92	33-141	
2,4,6-Tribromophenol		0.034	0.050	68	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: 900 S. Central Ave

Work Order #: 340156

Analyst: KAN

Lab Batch ID: 768103

Sample: 535064-1-BKS

Date Prepared: 08/07/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979
Date Analyzed: 08/10/2009

Matrix: Water

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acenaphthene	<0.001	0.050	0.042	84	0.05	0.042	84	0	27-132	31	
Acenaphthylene	<0.001	0.050	0.042	84	0.05	0.042	84	0	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.001	0.050	0.045	90	0.05	0.045	90	0	5-115	25	
Anthracene	<0.001	0.050	0.042	84	0.05	0.042	84	0	47-145	25	
Benzo(a)anthracene	<0.001	0.050	0.048	96	0.05	0.043	86	11	33-143	25	
Benzo(a)pyrene	<0.001	0.050	0.047	94	0.05	0.047	94	0	65-135	25	
Benzo(b)fluoranthene	<0.001	0.050	0.044	88	0.05	0.044	88	0	24-159	25	
Benzo(k)fluoranthene	<0.001	0.050	0.046	92	0.05	0.045	90	2	25-125	25	
Benzo(g,h,i)perylene	<0.001	0.050	0.048	96	0.05	0.046	92	4	65-135	25	
Benzoic Acid	<0.009	0.150	0.111	74	0.15	0.112	75	1	30-115	40	
Benzyl Butyl Phthalate	<0.001	0.050	0.052	104	0.05	0.052	104	0	65-135	25	
bis(2-chloroethoxy) methane	<0.001	0.050	0.039	78	0.05	0.038	76	3	54-188	25	
bis(2-chloroethyl) ether	<0.001	0.050	0.038	76	0.05	0.038	76	0	65-135	25	
bis(2-chloroisopropyl) ether	<0.001	0.050	0.035	70	0.05	0.035	70	0	65-135	25	
bis(2-ethylhexyl) phthalate	<0.001	0.050	0.043	86	0.05	0.043	86	0	8-158	25	
4-Bromophenyl-phenylether	<0.001	0.050	0.043	86	0.05	0.043	86	0	65-135	25	
4-chloro-3-methylphenol	<0.001	0.050	0.049	98	0.05	0.049	98	0	16-129	33	
4-Chloroaniline	<0.001	0.050	0.061	122	0.05	0.060	120	2	9-128	25	
2-Chloronaphthalene	<0.001	0.050	0.043	86	0.05	0.043	86	0	65-135	25	
2-Chlorophenol	<0.001	0.050	0.041	82	0.05	0.041	82	0	16-116	40	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Ave

Work Order #: 340156

Analyst: KAN

Lab Batch ID: 768103

Sample: 535064-1-BKS

Date Prepared: 08/07/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/10/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
	4-Chlorophenyl Phenyl Ether	<0.001	0.050	0.043	86	0.05	0.043	86	0	65-135	25	
	Chrysene	<0.001	0.050	0.048	96	0.05	0.047	94	2	65-135	25	
	Dibenz(a,h)anthracene	<0.001	0.050	0.049	98	0.05	0.048	96	2	50-125	25	
	Dibenzofuran	<0.001	0.050	0.043	86	0.05	0.043	86	0	52-125	25	
	di-n-Butyl Phthalate	<0.003	0.050	0.041	82	0.05	0.041	82	0	49-135	50	
	3,3-Dichlorobenzidine	<0.002	0.050	0.055	110	0.05	0.056	112	2	12-147	25	
	2,4-Dichlorophenol	<0.001	0.050	0.052	104	0.05	0.052	104	0	65-135	25	
	Diethyl Phthalate	<0.001	0.050	0.043	86	0.05	0.043	86	0	37-125	50	
	Dimethyl Phthalate	<0.001	0.050	0.043	86	0.05	0.043	86	0	25-175	50	
	2,4-Dimethylphenol	<0.001	0.050	0.051	102	0.05	0.051	102	0	32-119	25	
	4,6-dinitro-2-methyl phenol	<0.001	0.050	0.042	84	0.05	0.042	84	0	2-181	25	
	2,4-Dinitrophenol	<0.001	0.050	0.042	84	0.05	0.040	80	5	65-135	25	
	2,4-Dinitrotoluene	<0.001	0.050	0.044	88	0.05	0.044	88	0	22-135	38	
	2,6-Dinitrotoluene	<0.001	0.050	0.041	82	0.05	0.041	82	0	49-122	38	
	di-n-Octyl Phthalate	<0.001	0.050	0.044	88	0.05	0.043	86	2	43-134	50	
	Fluoranthene	<0.001	0.050	0.041	82	0.05	0.040	80	2	47-125	25	
	Fluorene	<0.001	0.050	0.042	84	0.05	0.042	84	0	48-139	25	
	Hexachlorobenzene	<0.001	0.050	0.044	88	0.05	0.044	88	0	46-133	25	
	Hexachlorocyclopentadiene	<0.001	0.050	0.042	84	0.05	0.042	84	0	41-125	25	
	Hexachloroethane	<0.001	0.050	0.036	72	0.05	0.037	74	3	25-153	25	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)]

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Ave

Project ID: Route 111 & Rand Ave Vicinity/21561979
Date Analyzed: 08/10/2009
Matrix: Water

Date Prepared: 08/07/2009
Batch #: 1

Work Order #: 340156
Analyst: KAN
Lab Batch ID: 768103
Sample: 535064-1-BKS

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
	Indeno(1,2,3-c,d)Pyrene	<0.001	0.050	0.052	104	0.05	0.051	102	2	27-160	25	
	Isophorone	<0.001	0.050	0.054	108	0.05	0.054	108	0	26-175	25	
	2-Methylnaphthalene	<0.001	0.050	0.052	104	0.05	0.052	104	0	25-175	25	
	2-methylphenol	<0.001	0.050	0.040	80	0.05	0.040	80	0	14-176	25	
	3&4-Methylphenol	<0.002	0.100	0.082	82	0.1	0.083	83	1	14-176	25	
	Naphthalene	<0.001	0.050	0.043	86	0.05	0.043	86	0	26-175	25	
	2-Nitroaniline	<0.001	0.050	0.039	78	0.05	0.039	78	0	65-135	25	
	3-Nitroaniline	<0.002	0.050	0.050	100	0.05	0.050	100	0	65-135	25	
	4-Nitroaniline	<0.001	0.050	0.054	108	0.05	0.055	110	2	65-135	25	
	Nitrobenzene	<0.001	0.050	0.042	84	0.05	0.042	84	0	65-135	25	
	2-Nitrophenol	<0.001	0.050	0.047	94	0.05	0.048	96	2	65-135	25	
	4-Nitrophenol	<0.001	0.050	0.040	80	0.05	0.040	80	0	10-80	50	
	N-Nitrosodi-n-Propylamine	<0.001	0.050	0.051	102	0.05	0.051	102	0	22-134	38	
	N-Nitrosodiphenylamine	<0.002	0.050	0.036	72	0.05	0.036	72	0	2-196	25	
	Pentachlorophenol	<0.001	0.050	0.033	66	0.05	0.033	66	0	17-117	50	
	Phenanthrene	<0.001	0.050	0.042	84	0.05	0.042	84	0	65-135	25	
	Phenol	<0.001	0.050	0.030	60	0.05	0.031	62	3	12-110	25	
	Pyrene	<0.001	0.050	0.056	112	0.05	0.055	110	2	23-152	31	
	Pyridine	<0.004	0.050	0.032	64	0.05	0.031	62	3	16-86	28	
	2,4,5-Trichlorophenol	<0.001	0.050	0.038	76	0.05	0.038	76	0	65-135	25	

Relative Percent Difference RPD = $200 * ((C-F) / (C+F))$
Blank Spike Recovery [D] = $100 * (C) / [B]$
Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$
All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Ave

Work Order #: 340156

Analyst: KAN

Lab Batch ID: 768103

Sample: 535064-1-BKS

Date Prepared: 08/07/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/10/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	<0.001	0.050	0.042	84	0.05	0.042	84	0	65-135	25	
2,4,6-Trichlorophenol											

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$
 Blank Spike Recovery [D] = $100 * (C)/[B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$
 All results are based on MDL and Validated for QC Purposes



Prelogin / Nonconformance Report - Sample Log-In

Client: URS Corp.
 Date/Time: 8/7/09
 Lab ID #: 340156
 Initials: JAS.

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No. <u>1793</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>21</u> lbs <u>2.5</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event

JAS.

Roxana Data Review

Laboratory SDG: 340270

Reviewer: Tony Sedlacek

Date Reviewed: 1/7/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-11-50	GWP-11-58
GWP-15-50EB	GWP-15-50
GWP-15-58	GWP-16-50
GWP-16-58	TB080609

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that VOC MS/MSD recoveries were outside evaluation criteria. Although not indicated in the laboratory case narrative, methylene chloride was detected in the trip blank. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that the samples were received by the laboratory at 1.8 °C and outside the 4 °C ± 2 °C temperature range criteria. Samples were received by the laboratory in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
TB080609	VOCs	Methylene chloride	1.26	µg/L

Methylene chloride was non-detect in all samples associated with the trip blank; therefore, no qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

Yes, sample GWP-15-58 was spiked and analyzed for VOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
GWP-15-58	VOCs	Acetone	37/35	5	60-140/21
GWP-15-58	VOCs	2-Butanone	61/58	5	60-140/20

USEPA National Functional Guidelines for Superfund Organic Methods Data Review indicates that organic data should not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria; therefore, no qualification of the data was required.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 340270

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

19-AUG-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)



19-AUG-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **340270**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 340270. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 340270 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 340270



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-11-50	W	Aug-06-09 11:15		340270-001
GWP-11-58	W	Aug-06-09 12:40		340270-002
GWP-15-50 EB	W	Aug-06-09 13:15		340270-003
GWP-15-50	W	Aug-06-09 15:15		340270-004
GWP-15-58	W	Aug-06-09 16:30		340270-005
GWP-16-50	W	Aug-07-09 10:30		340270-006
GWP-16-58	W	Aug-07-09 12:00		340270-007
TB080609	W	Aug-06-09 00:00		340270-008



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 340270

Report Date: 19-AUG-09
Date Received: 08/08/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-768671 VOAs by SW-846 8260B

Acetone, Bromomethane, Chloroethane recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Bromoform recovered above QC limits in the Matrix Spike.

Samples affected are: 340270-003, -001, -006, -008, -002, -007.

The Laboratory Control Sample for Bromomethane, Acetone, Chloroethane, Bromoform is within laboratory Control Limits

1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 2,2-Dichloropropane, Bromoform, Carbon Tetrachloride, Chloroform, Dibromochloromethane, Ethylbenzene, Hexachlorobutadiene, Sec-Butylbenzene, Tetrachloroethylene, isopropylbenzene, m,p-Xylenes, n-Butylbenzene, o-Xylene, p-Cymene (p-Isopropyltoluene), tert-Butylbenzene RPD was outside QC limits in the Matrix Spike/Matrix Spike Duplicate.

Samples affected are: 340270-003, -001, -006, -008, -002, -007

Batch: LBA-769015 VOAs by SW-846 8260B

Acetone recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. 2-Butanone recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 340270-004, -005.

The Laboratory Control Sample for Acetone, 2-Butanone is within laboratory Control Limits



Certificate of Analysis Summary 340270

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Sat Aug-08-09 09:00 am

Report Date: 19-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	340270-001	340270-002	340270-003	340270-004	340270-005	340270-006
									WATER Aug-06-09 11:15 ug/L	WATER Aug-06-09 12:40 ug/L	WATER Aug-06-09 13:15 ug/L	WATER Aug-06-09 15:15 ug/L	WATER Aug-06-09 16:30 ug/L	WATER Aug-07-09 10:30 ug/L
VOAs by SW-846 8260B									Aug-12-09 11:12 Aug-12-09 16:50 ug/L	Aug-12-09 11:14 Aug-12-09 17:17 ug/L	Aug-12-09 11:16 Aug-12-09 17:44 ug/L	Aug-18-09 17:24 Aug-18-09 19:21 ug/L	Aug-18-09 17:26 Aug-18-09 19:47 ug/L	Aug-12-09 11:22 Aug-12-09 18:11 ug/L
1,3-Dichlorobenzene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,4-Dichlorobenzene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Dichlorodifluoromethane									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1-Dichloroethane									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2-Dichloroethane									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1-Dichloroethene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
cis-1,2-Dichloroethene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
trans-1,2-dichloroethene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2-Dichloropropane									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,3-Dichloropropane									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
2,2-Dichloropropane									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1-Dichloropropene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
cis-1,3-Dichloropropene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
trans-1,3-dichloropropene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Ethylbenzene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Hexachlorobutadiene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
isopropylbenzene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Methylene Chloride									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
n-Propylbenzene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Styrene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,1,2-Tetrachloroethane									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,1,2,2-Tetrachloroethane									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Tetrachloroethylene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Toluene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,3-Trichlorobenzene									U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 340270

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084

Date Received in Lab: Sat Aug-08-09 09:00 am
Report Date: 19-AUG-09

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>	<i>340270-001</i>	<i>340270-002</i>	<i>340270-003</i>	<i>340270-004</i>	<i>340270-005</i>	<i>340270-006</i>
VOAs by SW-846 8260B														
1,2,4-Trichlorobenzene				WATER	Aug-06-09 11:15	Aug-12-09 11:12	Aug-12-09 16:50	U 5.00 RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,1-Trichloroethane				WATER	Aug-06-09 11:15	Aug-12-09 11:12	Aug-12-09 16:50	U 5.00 RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,2-Trichloroethane				WATER	Aug-06-09 11:15	Aug-12-09 11:12	Aug-12-09 16:50	U 5.00 RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Trichloroethene				WATER	Aug-06-09 11:15	Aug-12-09 11:12	Aug-12-09 16:50	U 5.00 RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Trichlorofluoromethane				WATER	Aug-06-09 11:15	Aug-12-09 11:12	Aug-12-09 16:50	U 5.00 RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,3-Trichloropropane				WATER	Aug-06-09 11:15	Aug-12-09 11:12	Aug-12-09 16:50	U 5.00 RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,4-Trimethylbenzene				WATER	Aug-06-09 11:15	Aug-12-09 11:12	Aug-12-09 16:50	U 5.00 RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,3,5-Trimethylbenzene				WATER	Aug-06-09 11:15	Aug-12-09 11:12	Aug-12-09 16:50	U 5.00 RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
o-Xylene				WATER	Aug-06-09 11:15	Aug-12-09 11:12	Aug-12-09 16:50	U 5.00 RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
m,p-Xylenes				WATER	Aug-06-09 11:15	Aug-12-09 11:12	Aug-12-09 16:50	U 5.00 RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Vinyl Acetate				WATER	Aug-06-09 11:15	Aug-12-09 11:12	Aug-12-09 16:50	U 5.00 RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Vinyl Chloride				WATER	Aug-06-09 11:15	Aug-12-09 11:12	Aug-12-09 16:50	U 5.00 RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00

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Carlos Castro
 Managing Director, Texas

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Sat Aug-08-09 09:00 am

Report Date: 19-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	340270-007	340270-008
		GWP-16-58		WATER	Aug-07-09 12:00	Aug-12-09 11:24	Aug-12-09 18:38	U 100	U 5.00	TB080609
VOAs by SW-846 8260B				WATER	Aug-06-09 00:00	Aug-12-09 11:10	Aug-12-09 16:22	ug/L RL	U 5.00	
Acetone								U 100	U 5.00	
Benzene								U 5.00	U 5.00	
Bromobenzene								U 5.00	U 5.00	
Bromochloromethane								U 5.00	U 5.00	
Bromodichloromethane								U 5.00	U 5.00	
Bromoform								U 5.00	U 5.00	
Bromomethane								U 5.00	U 5.00	
2-Butanone								U 50.0	U 5.00	
MTBE								U 5.00	U 5.00	
n-Butylbenzene								U 5.00	U 5.00	
Sec-Butylbenzene								U 5.00	U 5.00	
tert-Butylbenzene								U 5.00	U 5.00	
Carbon Disulfide								U 50.0	U 5.00	
Carbon Tetrachloride								U 5.00	U 5.00	
Chlorobenzene								U 5.00	U 5.00	
Chloroethane								U 10.0	U 10.0	
Chloroform								U 5.00	U 5.00	
Chloromethane								U 10.0	U 10.0	
2-Chlorotoluene								U 5.00	U 5.00	
4-Chlorotoluene								U 5.00	U 5.00	
p-Cymene (p-Isopropyltoluene)								U 5.00	U 5.00	
Dibromochloromethane								U 5.00	U 5.00	
1,2-Dibromo-3-Chloropropane								U 5.00	U 5.00	
Dibromomethane								U 5.00	U 5.00	
1,2-Dichlorobenzene								U 5.00	U 5.00	

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 340270

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
 Contact: Wendy Pennington
 Project Location: Roxana, IL 62084

Date Received in Lab: Sat Aug-08-09 09:00 am
 Report Date: 19-AUG-09
 Project Manager: Debbie Simmons

Project Name: 900 S. Central Avenue

Analysis Requested	Lab Id:	340270-007	340270-008
	Field Id:	GWP-16-58	TB080609
	Depth:		
	Matrix:	WATER	WATER
	Sampled:	Aug-07-09 12:00	Aug-06-09 00:00
	Extracted:	Aug-12-09 11:24	Aug-12-09 11:10
	Analyzed:	Aug-12-09 18:38	Aug-12-09 16:22
	Units/RL:	ug/L RL	ug/L RL
1,3-Dichlorobenzene		U 5.00	U 5.00
1,4-Dichlorobenzene		U 5.00	U 5.00
Dichlorodifluoromethane		U 5.00	U 5.00
1,1-Dichloroethane		U 5.00	U 5.00
1,2-Dichloroethane		U 5.00	U 5.00
1,1-Dichloroethene		U 5.00	U 5.00
cis-1,2-Dichloroethene		U 5.00	U 5.00
trans-1,2-dichloroethene		U 5.00	U 5.00
1,2-Dichloropropane		U 5.00	U 5.00
1,3-Dichloropropane		U 5.00	U 5.00
2,2-Dichloropropane		U 5.00	U 5.00
1,1-Dichloropropene		U 5.00	U 5.00
cis-1,3-Dichloropropene		U 5.00	U 5.00
trans-1,3-dichloropropene		U 5.00	U 5.00
Ethylbenzene		U 5.00	U 5.00
Hexachlorobutadiene		U 5.00	U 5.00
isopropylbenzene		U 5.00	U 5.00
Methylene Chloride		U 5.00	1.26 J 5.00
n-Propylbenzene		U 5.00	U 5.00
Styrene		U 5.00	U 5.00
1,1,1,2-Tetrachloroethane		U 5.00	U 5.00
1,1,2,2-Tetrachloroethane		U 5.00	U 5.00
Tetrachloroethylene		U 5.00	U 5.00
Toluene		U 5.00	U 5.00
1,2,3-Trichlorobenzene		U 5.00	U 5.00

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Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 340270

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
 Contact: Wendy Pennington
 Project Location: Roxana, IL 62084

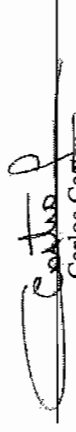
Project Name: 900 S. Central Avenue

Date Received in Lab: Sat Aug-08-09 09:00 am
 Report Date: 19-AUG-09
 Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>
VOAs by SW-846 8260B	340270-007	GWP-16-58		WATER	Aug-07-09 12:00	Aug-12-09 11:24	Aug-12-09 18:38	RL
	340270-008	TB080609		WATER	Aug-06-09 00:00	Aug-12-09 11:10	Aug-12-09 16:22	ug/L RL
1,2,4-Trichlorobenzene						U	5.00	U 5.00
1,1,1-Trichloroethane						U	5.00	U 5.00
1,1,2-Trichloroethane						U	5.00	U 5.00
Trichloroethene						U	5.00	U 5.00
Trichlorofluoromethane						U	5.00	U 5.00
1,2,3-Trichloropropane						U	5.00	U 5.00
1,2,4-Trimethylbenzene						U	5.00	U 5.00
1,3,5-Trimethylbenzene						U	5.00	U 5.00
o-Xylene						U	5.00	U 5.00
m,p-Xylenes						U	10.0	U 10.0
Vinyl Acetate						U	50.0	U 50.0
Vinyl Chloride						U	2.00	U 2.00

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 Carlos Castro
 Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : VOAs by SW-846 8260B

Client : URS Corporation-St. Louis

Work Order #: 340270

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-11-58	Aug. 6, 2009	Aug. 8, 2009				Aug.12, 2009	14	6	P
GWP-11-50	Aug. 6, 2009	Aug. 8, 2009				Aug.12, 2009	14	6	P
GWP-15-50 EB	Aug. 6, 2009	Aug. 8, 2009				Aug.12, 2009	14	6	P
GWP-15-50	Aug. 6, 2009	Aug. 8, 2009				Aug.18, 2009	14	12	P
GWP-15-58	Aug. 6, 2009	Aug. 8, 2009				Aug.18, 2009	14	12	P
GWP-16-50	Aug. 7, 2009	Aug. 8, 2009				Aug.12, 2009	14	5	P
TB080609	Aug. 6, 2009	Aug. 8, 2009				Aug.12, 2009	14	6	P
GWP-16-58	Aug. 7, 2009	Aug. 8, 2009				Aug.12, 2009	14	5	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
 - JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 340270,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768671

Sample: 535476-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 10:35

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0487	0.0500	97	74-124	
Dibromofluoromethane	0.0545	0.0500	109	75-131	
1,2-Dichloroethane-D4	0.0533	0.0500	107	63-144	
Toluene-D8	0.0507	0.0500	101	80-117	

Lab Batch #: 768671

Sample: 535476-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 11:49

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0494	0.0500	99	74-124	
Dibromofluoromethane	0.0528	0.0500	106	75-131	
1,2-Dichloroethane-D4	0.0530	0.0500	106	63-144	
Toluene-D8	0.0494	0.0500	99	80-117	

Lab Batch #: 768671

Sample: 340196-007 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 15:01

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0500	0.0500	100	74-124	
Dibromofluoromethane	0.0497	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0497	0.0500	99	63-144	
Toluene-D8	0.0504	0.0500	101	80-117	

Lab Batch #: 768671

Sample: 340196-007 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 15:28

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0508	0.0500	102	74-124	
Dibromofluoromethane	0.0490	0.0500	98	75-131	
1,2-Dichloroethane-D4	0.0499	0.0500	100	63-144	
Toluene-D8	0.0505	0.0500	101	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 340270,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768671

Sample: 340270-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 16:22

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0505	0.0500	101	74-124	
Dibromofluoromethane	0.0499	0.0500	100	75-131	
1,2-Dichloroethane-D4	0.0511	0.0500	102	63-144	
Toluene-D8	0.0495	0.0500	99	80-117	

Lab Batch #: 768671

Sample: 340270-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 16:50

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0512	0.0500	102	74-124	
Dibromofluoromethane	0.0495	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0495	0.0500	99	63-144	
Toluene-D8	0.0493	0.0500	99	80-117	

Lab Batch #: 768671

Sample: 340270-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 17:17

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0516	0.0500	103	74-124	
Dibromofluoromethane	0.0501	0.0500	100	75-131	
1,2-Dichloroethane-D4	0.0497	0.0500	99	63-144	
Toluene-D8	0.0495	0.0500	99	80-117	

Lab Batch #: 768671

Sample: 340270-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 17:44

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0516	0.0500	103	74-124	
Dibromofluoromethane	0.0518	0.0500	104	75-131	
1,2-Dichloroethane-D4	0.0517	0.0500	103	63-144	
Toluene-D8	0.0496	0.0500	99	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 340270,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768671

Sample: 340270-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 18:11

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0511	0.0500	102	74-124	
Dibromofluoromethane	0.0507	0.0500	101	75-131	
1,2-Dichloroethane-D4	0.0501	0.0500	100	63-144	
Toluene-D8	0.0505	0.0500	101	80-117	

Lab Batch #: 768671

Sample: 340270-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 18:38

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0501	0.0500	100	74-124	
Dibromofluoromethane	0.0531	0.0500	106	75-131	
1,2-Dichloroethane-D4	0.0519	0.0500	104	63-144	
Toluene-D8	0.0506	0.0500	101	80-117	

Lab Batch #: 769015

Sample: 535739-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/18/09 17:09

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0473	0.0500	95	74-124	
Dibromofluoromethane	0.0530	0.0500	106	75-131	
1,2-Dichloroethane-D4	0.0523	0.0500	105	63-144	
Toluene-D8	0.0495	0.0500	99	80-117	

Lab Batch #: 769015

Sample: 535739-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/18/09 18:02

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0510	0.0500	102	74-124	
Dibromofluoromethane	0.0511	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0508	0.0500	102	63-144	
Toluene-D8	0.0494	0.0500	99	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 340270,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 769015

Sample: 340270-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/18/09 19:21

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0510	0.0500	102	74-124	
Dibromofluoromethane	0.0533	0.0500	107	75-131	
1,2-Dichloroethane-D4	0.0527	0.0500	105	63-144	
Toluene-D8	0.0496	0.0500	99	80-117	

Lab Batch #: 769015

Sample: 340270-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/18/09 19:47

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0512	0.0500	102	74-124	
Dibromofluoromethane	0.0536	0.0500	107	75-131	
1,2-Dichloroethane-D4	0.0509	0.0500	102	63-144	
Toluene-D8	0.0504	0.0500	101	80-117	

Lab Batch #: 769015

Sample: 340270-005 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/18/09 20:14

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0496	0.0500	99	74-124	
Dibromofluoromethane	0.0521	0.0500	104	75-131	
1,2-Dichloroethane-D4	0.0499	0.0500	100	63-144	
Toluene-D8	0.0514	0.0500	103	80-117	

Lab Batch #: 769015

Sample: 340270-005 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/18/09 20:40

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0498	0.0500	100	74-124	
Dibromofluoromethane	0.0510	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0498	0.0500	100	63-144	
Toluene-D8	0.0513	0.0500	103	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 340270

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768671

Sample: 535476-1-BKS

Matrix: Water

Date Analyzed: 08/12/2009

Date Prepared: 08/12/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	556	111	60-140	
Benzene	<1.00	50.0	52.2	104	66-142	
Bromobenzene	<1.00	50.0	50.6	101	75-125	
Bromochloromethane	<1.00	50.0	57.0	114	73-125	
Bromodichloromethane	<1.00	50.0	58.4	117	75-125	
Bromoform	<1.00	50.0	59.3	119	75-125	
Bromomethane	<1.00	50.0	60.7	121	70-130	
2-Butanone	<10.0	500	567	113	60-140	
MTBE	<1.00	50.0	59.7	119	65-135	
n-Butylbenzene	<1.00	50.0	52.4	105	75-125	
Sec-Butylbenzene	<1.00	50.0	52.5	105	75-125	
tert-Butylbenzene	<1.00	50.0	53.5	107	75-125	
Carbon Disulfide	<10.0	500	480	96	60-140	
Carbon Tetrachloride	<1.00	50.0	53.7	107	62-125	
Chlorobenzene	<1.00	50.0	51.7	103	60-133	
Chloroethane	<2.00	50.0	46.5	93	70-130	
Chloroform	<1.00	50.0	59.0	118	74-125	
Chloromethane	<2.00	50.0	51.1	102	70-130	
2-Chlorotoluene	<1.00	50.0	51.8	104	73-125	
4-Chlorotoluene	<1.00	50.0	51.3	103	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	52.8	106	75-125	
Dibromochloromethane	<1.00	50.0	57.9	116	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	55.9	112	59-125	
Dibromomethane	<1.00	50.0	55.6	111	69-127	
1,2-Dichlorobenzene	<1.00	50.0	53.8	108	75-125	
1,3-Dichlorobenzene	<1.00	50.0	51.6	103	75-125	
1,4-Dichlorobenzene	<1.00	50.0	50.9	102	75-125	
Dichlorodifluoromethane	<1.00	50.0	53.1	106	70-130	
1,1-Dichloroethane	<1.00	50.0	57.2	114	72-125	
1,2-Dichloroethane	<1.00	50.0	57.6	115	68-127	
1,1-Dichloroethene	<1.00	50.0	52.6	105	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	56.1	112	75-125	
trans-1,2-dichloroethene	<1.00	50.0	53.7	107	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 340270

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768671

Sample: 535476-1-BKS

Matrix: Water

Date Analyzed: 08/12/2009

Date Prepared: 08/12/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	54.3	109	74-125	
1,3-Dichloropropane	<1.00	50.0	53.4	107	75-125	
2,2-Dichloropropane	<1.00	50.0	56.9	114	75-125	
1,1-Dichloropropene	<1.00	50.0	51.4	103	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	55.1	110	74-125	
trans-1,3-dichloropropene	<1.00	50.0	55.1	110	66-125	
Ethylbenzene	<1.00	50.0	52.7	105	75-125	
Hexachlorobutadiene	<1.00	50.0	51.0	102	75-125	
isopropylbenzene	<1.00	50.0	51.5	103	75-125	
Methylene Chloride	<1.00	50.0	55.1	110	75-125	
n-Propylbenzene	<1.00	50.0	51.1	102	75-125	
Styrene	<1.00	50.0	54.0	108	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	57.8	116	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	53.7	107	74-125	
Tetrachloroethylene	<1.00	50.0	49.5	99	71-125	
Toluene	<1.00	50.0	50.1	100	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	53.4	107	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	51.0	102	75-135	
1,1,1-Trichloroethane	<1.00	50.0	57.8	116	75-125	
1,1,2-Trichloroethane	<1.00	50.0	54.1	108	75-127	
Trichloroethene	<1.00	50.0	53.8	108	62-137	
Trichlorofluoromethane	<1.00	50.0	59.2	118	67-125	
1,2,3-Trichloropropane	<1.00	50.0	52.4	105	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	52.8	106	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	52.4	105	70-125	
o-Xylene	<1.00	50.0	53.1	106	75-125	
m,p-Xylenes	<2.00	100	103	103	75-125	
Vinyl Acetate	<10.0	500	511	102	60-140	
Vinyl Chloride	<0.400	50.0	52.4	105	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 340270

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 769015

Sample: 535739-1-BKS

Matrix: Water

Date Analyzed: 08/18/2009

Date Prepared: 08/18/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	505	101	60-140	
Benzene	<1.00	50.0	45.0	90	66-142	
Bromobenzene	<1.00	50.0	42.7	85	75-125	
Bromochloromethane	<1.00	50.0	44.9	90	73-125	
Bromodichloromethane	<1.00	50.0	44.0	88	75-125	
Bromoform	<1.00	50.0	44.5	89	75-125	
Bromomethane	<1.00	50.0	51.3	103	70-130	
2-Butanone	<10.0	500	497	99	60-140	
MTBE	<1.00	50.0	48.3	97	65-135	
n-Butylbenzene	<1.00	50.0	47.3	95	75-125	
Sec-Butylbenzene	<1.00	50.0	46.1	92	75-125	
tert-Butylbenzene	<1.00	50.0	45.8	92	75-125	
Carbon Disulfide	<10.0	500	428	86	60-140	
Carbon Tetrachloride	<1.00	50.0	53.2	106	62-125	
Chlorobenzene	<1.00	50.0	42.2	84	60-133	
Chloroethane	<2.00	50.0	48.9	98	70-130	
Chloroform	<1.00	50.0	45.9	92	74-125	
Chloromethane	<2.00	50.0	42.2	84	70-130	
2-Chlorotoluene	<1.00	50.0	44.8	90	73-125	
4-Chlorotoluene	<1.00	50.0	44.1	88	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	46.2	92	75-125	
Dibromochloromethane	<1.00	50.0	43.8	88	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	43.1	86	59-125	
Dibromomethane	<1.00	50.0	43.3	87	69-127	
1,2-Dichlorobenzene	<1.00	50.0	44.6	89	75-125	
1,3-Dichlorobenzene	<1.00	50.0	45.2	90	75-125	
1,4-Dichlorobenzene	<1.00	50.0	44.5	89	75-125	
Dichlorodifluoromethane	<1.00	50.0	48.7	97	70-130	
1,1-Dichloroethane	<1.00	50.0	46.5	93	72-125	
1,2-Dichloroethane	<1.00	50.0	43.4	87	68-127	
1,1-Dichloroethene	<1.00	50.0	47.5	95	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	47.3	95	75-125	
trans-1,2-dichloroethene	<1.00	50.0	48.0	96	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 340270

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 769015

Sample: 535739-1-BKS

Matrix: Water

Date Analyzed: 08/18/2009

Date Prepared: 08/18/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	43.8	88	74-125	
1,3-Dichloropropane	<1.00	50.0	41.7	83	75-125	
2,2-Dichloropropane	<1.00	50.0	51.3	103	75-125	
1,1-Dichloropropene	<1.00	50.0	46.1	92	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	44.5	89	74-125	
trans-1,3-dichloropropene	<1.00	50.0	44.5	89	66-125	
Ethylbenzene	<1.00	50.0	45.2	90	75-125	
Hexachlorobutadiene	<1.00	50.0	47.8	96	75-125	
isopropylbenzene	<1.00	50.0	45.1	90	75-125	
Methylene Chloride	<1.00	50.0	41.9	84	75-125	
n-Propylbenzene	<1.00	50.0	46.4	93	75-125	
Styrene	<1.00	50.0	45.0	90	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	45.9	92	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	42.3	85	74-125	
Tetrachloroethylene	<1.00	50.0	49.5	99	71-125	
Toluene	<1.00	50.0	43.4	87	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	43.1	86	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	46.2	92	75-135	
1,1,1-Trichloroethane	<1.00	50.0	48.7	97	75-125	
1,1,2-Trichloroethane	<1.00	50.0	41.4	83	75-127	
Trichloroethene	<1.00	50.0	44.0	88	62-137	
Trichlorofluoromethane	<1.00	50.0	49.3	99	67-125	
1,2,3-Trichloropropane	<1.00	50.0	41.9	84	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	44.1	88	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	44.1	88	70-125	
o-Xylene	<1.00	50.0	47.2	94	75-125	
m,p-Xylenes	<2.00	100	90.0	90	75-125	
Vinyl Acetate	<10.0	500	472	94	60-140	
Vinyl Chloride	<0.400	50.0	41.7	83	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 340270

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch ID: 768671

Batch #: 1 Matrix: Water

Date Analyzed: 08/12/2009

QC- Sample ID: 340196-007 S Date Prepared: 08/12/2009

Analyst: ZHO

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spiked Sample Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spiked Sample Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acetone	<1.00	50.0	21.7	43	50.0	18.0	36	19	60-140	21	X
Benzene	1.95	50.0	51.1	98	50.0	42.5	81	18	66-142	21	
Bromobenzene	<5.00	50.0	57.0	114	50.0	47.0	94	19	75-125	20	
Bromochloromethane	<5.00	50.0	61.5	123	50.0	50.7	101	19	73-125	20	
Bromodichloromethane	<1.00	50.0	61.9	124	50.0	51.4	103	19	75-125	20	
Bromoform	<1.00	50.0	65.3	131	50.0	52.6	105	22	75-125	20	XF
Bromomethane	<1.00	50.0	28.6	57	50.0	32.5	65	13	70-130	20	X
2-Butanone	<50.0	50.0	368	74	50.0	305	61	19	60-140	20	
MTBE	33.1	50.0	100	134	50.0	85.4	105	16	65-135	20	
n-Butylbenzene	<5.00	50.0	51.7	103	50.0	40.9	82	23	75-125	20	F
Sec-Butylbenzene	<5.00	50.0	53.3	107	50.0	42.9	86	22	75-125	20	F
tert-Butylbenzene	<5.00	50.0	55.0	110	50.0	44.4	89	21	75-125	20	F
Carbon Disulfide	<50.0	50.0	476	95	50.0	389	78	20	60-140	20	
Carbon Tetrachloride	<1.00	50.0	49.5	99	50.0	39.8	80	22	62-125	20	F
Chlorobenzene	<1.00	50.0	54.9	110	50.0	44.6	89	21	60-133	21	
Chloroethane	<1.00	50.0	31.1	62	50.0	34.4	69	10	70-130	20	X
Chloroform	<1.00	50.0	55.5	111	50.0	44.9	90	21	74-125	20	F
Chloromethane	<1.00	50.0	36.9	74	50.0	42.1	84	13	70-130	20	
2-Chlorotoluene	<5.00	50.0	51.9	104	50.0	42.5	85	20	73-125	20	
4-Chlorotoluene	<5.00	50.0	54.3	109	50.0	44.7	89	19	74-125	20	
p-Cymene (p-Isopropyltoluene)	<5.00	50.0	54.9	110	50.0	43.5	87	23	75-125	20	F
Dibromochloromethane	<1.00	50.0	57.1	114	50.0	45.7	91	22	73-125	20	F
1,2-Dibromo-3-Chloropropane	<5.00	50.0	55.1	110	50.0	43.5	87	24	59-125	28	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference RPD = 200*(C-F)/(C+F)
 ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Work Order # : 340270

Lab Batch ID: 768671

Date Analyzed: 08/12/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 340196-007 S

Date Prepared: 08/12/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
VOAs by SW-846 8260B											
Dibromomethane	<5.00	50.0	56.4	113	50.0	46.6	93	19	69-127	23	
1,2-Dichlorobenzene	<1.00	50.0	54.9	110	50.0	44.7	89	20	75-125	20	
1,3-Dichlorobenzene	<1.00	50.0	57.3	115	50.0	46.8	94	20	75-125	20	
1,4-Dichlorobenzene	<1.00	50.0	50.5	101	50.0	41.5	83	20	75-125	20	
Dichlorodifluoromethane	<5.00	50.0	40.7	81	50.0	46.2	92	13	70-130	23	
1,1-Dichloroethane	<1.00	50.0	56.0	112	50.0	45.9	92	20	72-125	20	
1,2-Dichloroethane	<1.00	50.0	58.5	117	50.0	48.4	97	19	68-127	20	
1,1-Dichloroethene	<1.00	50.0	54.1	108	50.0	42.9	86	23	59-172	22	F
cis-1,2-Dichloroethene	<5.00	50.0	57.0	114	50.0	46.5	93	20	75-125	20	
trans-1,2-dichloroethene	<1.00	50.0	49.1	98	50.0	40.1	80	20	75-125	20	
1,2-Dichloropropane	<1.00	50.0	57.7	115	50.0	47.7	95	19	74-125	20	
1,3-Dichloropropane	<5.00	50.0	62.0	124	50.0	51.4	103	19	75-125	20	
2,2-Dichloropropane	<5.00	50.0	46.7	93	50.0	37.6	75	22	75-125	20	F
1,1-Dichloropropene	<5.00	50.0	51.2	102	50.0	41.4	83	21	75-125	20	F
cis-1,3-Dichloropropene	<1.00	50.0	55.5	111	50.0	45.8	92	19	74-125	20	
trans-1,3-dichloropropene	<1.00	50.0	55.5	111	50.0	45.8	92	19	66-125	20	
Ethylbenzene	<1.00	50.0	54.8	110	50.0	44.3	89	21	75-125	20	F
Hexachlorobutadiene	<5.00	50.0	47.9	96	50.0	37.4	75	25	75-125	20	F
isopropylbenzene	<5.00	50.0	53.6	107	50.0	43.3	87	21	75-125	20	F
Methylene Chloride	<10.0	50.0	51.2	102	50.0	42.0	84	20	75-125	35	
n-Propylbenzene	<5.00	50.0	53.6	107	50.0	44.1	88	19	75-125	20	
Styrene	<5.00	50.0	55.9	112	50.0	43.9	88	24	75-125	51	
1,1,1,2-Tetrachloroethane	<5.00	50.0	56.6	113	50.0	45.3	91	22	72-125	20	F

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference RPD = 200*(C-F)/(C+E)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 340270

Lab Batch ID: 768671

Date Analyzed: 08/12/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 340196-007 S

Date Prepared: 08/12/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<1.00	50.0	58.7	117	50.0	49.2	98	18	74-125	31	
Tetrachloroethylene	<1.00	50.0	53.4	107	50.0	43.0	86	22	71-125	20	F
Toluene	<1.00	50.0	48.1	96	50.0	39.5	79	20	59-139	21	
1,2,3-Trichlorobenzene	<5.00	50.0	55.3	111	50.0	42.2	84	27	75-137	20	F
1,2,4-Trichlorobenzene	<5.00	50.0	51.5	103	50.0	39.4	79	27	75-135	20	F
1,1,1-Trichloroethane	<1.00	50.0	53.8	108	50.0	42.9	86	23	75-125	20	F
1,1,2-Trichloroethane	<1.00	50.0	60.6	121	50.0	51.1	102	17	75-127	20	
Trichloroethene	<1.00	50.0	52.2	104	50.0	42.5	85	20	62-137	24	
Trichlorofluoromethane	<5.00	50.0	45.5	91	50.0	51.1	102	12	67-125	20	
1,2,3-Trichloropropane	<5.00	50.0	61.1	122	50.0	50.7	101	19	75-125	20	
1,2,4-Trimethylbenzene	<5.00	50.0	54.0	108	50.0	43.0	86	23	75-125	20	F
1,3,5-Trimethylbenzene	<5.00	50.0	53.5	107	50.0	42.4	85	23	70-125	20	F
o-Xylene	<1.00	50.0	50.9	102	50.0	40.7	81	22	75-125	20	F
m,p-Xylenes	<2.00	100	109	109	100	88.0	88	21	75-125	20	F
Vinyl Acetate	<50.0	500	440	88	500	363	73	19	60-140	20	
Vinyl Chloride	<1.00	50.0	37.9	76	50.0	42.8	86	12	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 340270

Lab Batch ID: 769015

Date Analyzed: 08/18/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 340270-005 S

Date Prepared: 08/18/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acetone	<100	500	187	37	500	177	35	5	60-140	21	X
Benzene	<5.00	50.0	41.0	82	50.0	42.2	84	3	66-142	21	
Bromobenzene	<5.00	50.0	44.7	89	50.0	46.8	94	5	75-125	20	
Bromochloromethane	<5.00	50.0	48.6	97	50.0	48.7	97	0	73-125	20	
Bromodichloromethane	<5.00	50.0	49.6	99	50.0	50.2	100	1	75-125	20	
Bromoform	<5.00	50.0	46.7	93	50.0	46.1	92	1	75-125	20	
Bromomethane	<5.00	50.0	49.4	99	50.0	51.2	102	4	70-130	20	
2-Butanone	<50.0	500	304	61	500	288	58	5	60-140	20	X
MTBE	<5.00	50.0	55.1	110	50.0	55.3	111	0	65-135	20	
n-Butylbenzene	<5.00	50.0	44.6	89	50.0	45.1	90	1	75-125	20	
Sec-Butylbenzene	<5.00	50.0	43.6	87	50.0	43.8	88	0	75-125	20	
tert-Butylbenzene	<5.00	50.0	43.9	88	50.0	44.4	89	1	75-125	20	
Carbon Disulfide	<50.0	500	422	84	500	422	84	0	60-140	20	
Carbon Tetrachloride	<5.00	50.0	53.9	108	50.0	53.3	107	1	62-125	20	
Chlorobenzene	<5.00	50.0	41.8	84	50.0	42.7	85	2	60-133	21	
Chloroethane	<10.0	50.0	45.5	91	50.0	47.2	94	4	70-130	20	
Chloroform	<5.00	50.0	45.8	92	50.0	46.1	92	1	74-125	20	
Chloromethane	<10.0	50.0	39.8	80	50.0	41.4	83	4	70-130	20	
2-Chlorotoluene	<5.00	50.0	43.9	88	50.0	44.3	89	1	73-125	20	
4-Chlorotoluene	<5.00	50.0	44.8	90	50.0	45.9	92	2	74-125	20	
p-Cymene (p-Isopropyltoluene)	<5.00	50.0	45.5	91	50.0	45.7	91	0	75-125	20	
Dibromochloromethane	<5.00	50.0	42.3	85	50.0	43.2	86	2	73-125	20	
1,2-Dibromo-3-Chloropropane	<5.00	50.0	40.9	82	50.0	40.0	80	2	59-125	28	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference RPD = 200*((C-F)/(C+F))
 ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 340270

Lab Batch ID: 769015

Date Analyzed: 08/18/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Water

Analyst: ZHO

QC- Sample ID: 340270-005 S

Date Prepared: 08/18/2009

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dibromomethane	<5.00	50.0	44.3	89	50.0	45.3	91	2	69-127	23	
1,2-Dichlorobenzene	<5.00	50.0	43.7	87	50.0	44.3	89	1	75-125	20	
1,3-Dichlorobenzene	<5.00	50.0	47.3	95	50.0	48.3	97	2	75-125	20	
1,4-Dichlorobenzene	<5.00	50.0	41.3	83	50.0	42.4	85	3	75-125	20	
Dichlorodifluoromethane	<5.00	50.0	52.3	105	50.0	51.5	103	2	70-130	23	
1,1-Dichloroethane	<5.00	50.0	47.4	95	50.0	47.7	95	1	72-125	20	
1,2-Dichloroethane	<5.00	50.0	47.4	95	50.0	47.7	95	1	68-127	20	
1,1-Dichloroethene	<5.00	50.0	47.3	95	50.0	48.1	96	2	59-172	22	
cis-1,2-Dichloroethene	<5.00	50.0	47.5	95	50.0	49.1	98	3	75-125	20	
trans-1,2-dichloroethene	<5.00	50.0	43.1	86	50.0	43.7	87	1	75-125	20	
1,2-Dichloropropane	<5.00	50.0	45.7	91	50.0	46.6	93	2	74-125	20	
1,3-Dichloropropane	<5.00	50.0	45.6	91	50.0	47.0	94	3	75-125	20	
2,2-Dichloropropane	<5.00	50.0	44.5	89	50.0	43.6	87	2	75-125	20	
1,1-Dichloropropene	<5.00	50.0	45.1	90	50.0	45.6	91	1	75-125	20	
cis-1,3-Dichloropropene	<5.00	50.0	42.5	85	50.0	44.3	89	4	74-125	20	
trans-1,3-dichloropropene	<5.00	50.0	42.5	85	50.0	44.3	89	4	66-125	20	
Ethylbenzene	<5.00	50.0	44.7	89	50.0	45.1	90	1	75-125	20	
Hexachlorobutadiene	<5.00	50.0	42.1	84	50.0	43.3	87	3	75-125	20	
isopropylbenzene	<5.00	50.0	43.8	88	50.0	44.6	89	2	75-125	20	
Methylene Chloride	<5.00	50.0	39.0	78	50.0	39.7	79	2	75-125	35	
n-Propylbenzene	<5.00	50.0	46.5	93	50.0	47.1	94	1	75-125	20	
Styrene	<5.00	50.0	43.6	87	50.0	44.8	90	3	75-125	51	
1,1,1,2-Tetrachloroethane	<5.00	50.0	44.6	89	50.0	45.1	90	1	72-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, I = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQ = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 340270

Lab Batch ID: 769015

Date Analyzed: 08/18/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 340270-005 S

Date Prepared: 08/18/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<5.00	50.0	41.8	84	50.0	41.9	84	0	74-125	31	
Tetrachloroethylene	<5.00	50.0	48.6	97	50.0	49.4	99	2	71-125	20	
Toluene	<5.00	50.0	40.4	81	50.0	41.3	83	2	59-139	21	
1,2,3-Trichlorobenzene	<5.00	50.0	43.1	86	50.0	44.6	89	3	75-137	20	
1,2,4-Trichlorobenzene	<5.00	50.0	43.3	87	50.0	44.4	89	3	75-135	20	
1,1,1-Trichloroethane	<5.00	50.0	48.9	98	50.0	48.5	97	1	75-125	20	
1,1,2-Trichloroethane	<5.00	50.0	45.7	91	50.0	46.6	93	2	75-127	20	
Trichloroethene	<5.00	50.0	43.9	88	50.0	45.2	90	3	62-137	24	
Trichlorofluoromethane	<5.00	50.0	55.9	112	50.0	54.6	109	2	67-125	20	
1,2,3-Trichloropropane	<5.00	50.0	45.0	90	50.0	44.2	88	2	75-125	20	
1,2,4-Trimethylbenzene	<5.00	50.0	43.2	86	50.0	43.6	87	1	75-125	20	
1,3,5-Trimethylbenzene	<5.00	50.0	42.9	86	50.0	43.3	87	1	70-125	20	
o-Xylene	<5.00	50.0	41.9	84	50.0	42.8	86	2	75-125	20	
m,p-Xylenes	<10.0	100	87.7	88	100	90.0	90	3	75-125	20	
Vinyl Acetate	<50.0	500	324	65	500	316	63	3	60-140	20	
Vinyl Chloride	<2.00	50.0	44.8	90	50.0	45.2	90	1	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
 1413 Greenbrier Dr., Sheffield, TX 77477
 PH: 281-240-4200; FAX: 281-240-4280

XENCO ()
 CALSCIENCE ()
 TEST AMERICA ()
 SPL ()
 OTHER ()

Please Check Appropriate Box:
 ENV. SERVICES
 MOTIVA RETAIL
 MOTIVA SD&M
 SHELL PIPELINE
 SHELL RETAIL
 CONSULTANT
 LUBES
 OTHER

Print Bill To Contact Name: KEVIN DYER
 P.O. # _____
 SAP # _____
 INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
 DATE: 08/07/09
 CHECK IF NO INCIDENT # APPLIES
 PAGE: 1 of 1

CONSULTANT COMPANY: URS CORPORATION - FIELD OFFICE
 ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300
 CITY: ST. LOUIS, MISSOURI 63110
 TELEPHONE: OFF: 314-743-4166 FAX: OFF: 314-743-4166
 CELL: 314-452-8928 CELL: 314-452-8928
 CONSULTANT PROJECT CONTACT (Repeat to): WENDY PENNINGTON
 CONSULTANT PROJECT NAME / NO.: Route 111 & Rand Ave Vicinity / 21561979
 SAMPLER NAME(S) (P/P#): N. SATAM
 SOPIUS SITE ADDRESS (Street, City and State): 900 S. CENTRAL AVENUE, ROXANA, ILLINOIS 62084

TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (10 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND
 DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) EDD
 TEMPERATURE ON RECEIPT °C: Cooler #1: -8°C Cooler #2: Cooler #3:
 SPECIAL INSTRUCTIONS OR NOTES:
 SHELL CONTRACT RATE APPLIES

FIELD SAMPLE IDENTIFICATION	SAMPLING		PRESERVATIVE				NO. OF CONT.	LABORATORY NOTES
	DATE	TIME	MATRIX	MCL	H2SO4	NONE		
GWP-11-50	08/06/09	1115	Water	X			3	
GWP-11-58	08/06/09	1240	Water	X			3	
GWP-15-50EB	08/06/09	1315	Water	X			3	
GWP-15-50	08/06/09	1515	Water	X			3	
GWP-15-58	08/06/09	1630	Water	X			3	
GWP-16-50	08/07/09	1030	Water	X			3	
GWP-16-58	08/07/09	1200	Water	X			3	
TB080609								

Requested Analysis: VOC 8260B, SVOC/PAH 8270B, moisture
 Received by (Signature): *Wendy Pennington* Date: 08/07/09 Time: 1700
 Received by (Signature): *Kevin Dyer* Date: 08/07/09 Time: 0900
 Received by (Signature): *FedEx* Date: 08/07/09 Time: 0900
 FED EX



Prelogin / Nonconformance Report - Sample Log-In

Client: URS
Date/Time: 08/08/09
Lab ID #: 389C 340270
Initials: [Signature]

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No. <u>1013</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>30</u> lbs	<u>1.8</u> °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

[Signature]

Roxana Data Review

Laboratory SDG: 340653

Reviewer: Tony Sedlacek

Date Reviewed: 1/5/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-18-50	GWP-18-58
GWP-18-58D	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative and cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
GWP-18-58	GWP-18-58D

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 340653

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

13-AUG-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

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13-AUG-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **340653**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 340653. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 340653 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Sample Cross Reference 340653



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-18-50	W	Aug-11-09 10:45		340653-001
GWP-18-58	W	Aug-11-09 12:15		340653-002
GWP-18-58D	W	Aug-11-09 12:15		340653-003

CASE NARRATIVE



Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 340653

Report Date: 13-AUG-09
Date Received: 08/12/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-768376 SVOCs by SW-846 8270C

None



Certificate of Analysis Summary 340653

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Wed Aug-12-09 08:45 am

Report Date: 13-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	340653-001	340653-002	340653-003
	Field Id:	GWP-18-50	GWP-18-58	GWP-18-58D
Depth:				
Matrix:	WATER	WATER	WATER	
Sampled:	Aug-11-09 10:45	Aug-11-09 12:15	Aug-11-09 12:15	
SVOAs by SW-846 8270C	Extracted:	Aug-12-09 10:09	Aug-12-09 10:12	Aug-12-09 10:15
	Analyzed:	Aug-12-09 19:16	Aug-12-09 19:54	Aug-12-09 20:31
Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Acenaphthene	U 0.005	U 0.005	U 0.005	
Acenaphthylene	U 0.005	U 0.005	U 0.005	
Aniline (Phenylamine, Aminobenzene)	U 0.022	U 0.021	U 0.022	
Anthracene	U 0.005	U 0.005	U 0.005	
Benzo(a)anthracene	U 0.005	U 0.005	U 0.005	
Benzo(a)pyrene	U 0.005	U 0.005	U 0.005	
Benzo(b)fluoranthene	U 0.005	U 0.005	U 0.005	
Benzo(k)fluoranthene	U 0.005	U 0.005	U 0.005	
Benzo(g,h,i)perylene	U 0.005	U 0.005	U 0.005	
Benzoic Acid	U 0.033	U 0.032	U 0.033	
Benzylyl Butyl Phthalate	U 0.005	U 0.005	U 0.005	
bis(2-chloroethoxy) methane	U 0.011	U 0.011	U 0.011	
bis(2-chloroethyl) ether	U 0.011	U 0.011	U 0.011	
bis(2-chloroisopropyl) ether	U 0.011	U 0.011	U 0.011	
bis(2-ethylhexyl) phthalate	U 0.005	U 0.005	U 0.005	
4-Bromophenyl-phenylether	U 0.011	U 0.011	U 0.011	
4-chloro-3-methylphenol	U 0.011	U 0.011	U 0.011	
4-Chloroaniline	U 0.022	U 0.021	U 0.022	
2-Chloronaphthalene	U 0.011	U 0.011	U 0.011	
2-Chlorophenol	U 0.011	U 0.011	U 0.011	
4-Chlorophenyl Phenyl Ether	U 0.011	U 0.011	U 0.011	
Chrysene	U 0.005	U 0.005	U 0.005	
Dibenz(a,h)anthracene	U 0.005	U 0.005	U 0.005	
Dibenzofuran	U 0.011	U 0.011	U 0.011	
di-n-Butyl Phthalate	U 0.005	U 0.005	U 0.005	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro

Managing Director, Texas



Certificate of Analysis Summary 340653

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue
Date Received in Lab: Wed Aug-12-09 08:45 am
Report Date: 13-AUG-09
Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>
	340653-001	340653-002	340653-003	WATER	WATER	WATER	WATER	
	GWP-18-50	GWP-18-58	GWP-18-58D	Aug-11-09 10:45	Aug-11-09 12:15	Aug-11-09 12:15	Aug-11-09 12:15	
SVOAs by SW-846 8270C	Aug-12-09 10:09	Aug-12-09 10:12	Aug-12-09 10:15	mg/L	mg/L	mg/L	mg/L	RL
3,3-Dichlorobenzidine	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
2,4-Dichlorophenol	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
Diethyl Phthalate	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Dimethyl Phthalate	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
2,4-Dimethylphenol	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
4,6-dinitro-2-methyl phenol	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
2,4-Dinitrophenol	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
2,4-Dinitrotoluene	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
2,6-Dinitrotoluene	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
di-n-Octyl Phthalate	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Fluoranthene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Fluorene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Hexachlorobenzene	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
Hexachlorocyclopentadiene	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
Hexachloroethane	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
Indeno(1,2,3-c,d)Pyrene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
Isophorone	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
2-Methylnaphthalene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
2-methylphenol	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
3&4-Methylphenol	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
Naphthalene	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005
2-Nitroaniline	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
3-Nitroaniline	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011
4-Nitroaniline	U 0.022	U 0.021	U 0.021	U 0.021	U 0.021	U 0.021	U 0.022	U 0.022
Nitrobenzene	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011	U 0.011

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Certificate of Analysis Summary 340653

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Wed Aug-12-09 08:45 am

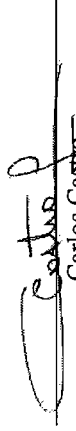
Report Date: 13-AUG-09

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	340653-001	340653-002	340653-003
	<i>Field Id:</i>	GWP-18-50	GWP-18-58	GWP-18-58D
<i>Depth:</i>				
<i>Matrix:</i>	WATER	WATER	WATER	
<i>Sampled:</i>	Aug-11-09 10:45	Aug-11-09 12:15	Aug-11-09 12:15	
<i>Extracted:</i>	Aug-12-09 10:09	Aug-12-09 10:12	Aug-12-09 10:15	
<i>Analyzed:</i>	Aug-12-09 19:16	Aug-12-09 19:54	Aug-12-09 20:31	
<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL	
2-Nitrophenol	U	U	U	0.011
4-Nitrophenol	U	U	U	0.011
N-Nitrosodi-n-Propylamine	U	U	U	0.011
N-Nitrosodiphenylamine	U	U	U	0.011
Pentachlorophenol	U	U	U	0.011
Phenanthrene	U	U	U	0.005
Phenol	U	U	U	0.011
Pyrene	U	U	U	0.005
Pyridine	U	U	U	0.011
2,4,5-Trichlorophenol	U	U	U	0.011
2,4,6-Trichlorophenol	U	U	U	0.011

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Carlos Castro
 Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : SVOAs by SW-846 8270C

Client : URS Corporation-St. Louis

Work Order #: 340653

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-18-50	Aug. 11, 2009	Aug. 12, 2009	Aug. 12, 2009	7	1	Aug.12, 2009	40	0	P
GWP-18-58D	Aug. 11, 2009	Aug. 12, 2009	Aug. 12, 2009	7	1	Aug.12, 2009	40	0	P
GWP-18-58	Aug. 11, 2009	Aug. 12, 2009	Aug. 12, 2009	7	1	Aug.12, 2009	40	0	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
 - JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 340653,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768376

Sample: 535255-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 17:22

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.049	0.050	98	43-116	
2-Fluorophenol	0.034	0.050	68	21-100	
Nitrobenzene-d5	0.042	0.050	84	35-114	
Phenol-d6	0.020	0.050	40	10-94	
Terphenyl-D14	0.052	0.050	104	33-141	
2,4,6-Tribromophenol	0.032	0.050	64	10-123	

Lab Batch #: 768376

Sample: 535255-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 18:00

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.046	0.050	92	43-116	
2-Fluorophenol	0.034	0.050	68	21-100	
Nitrobenzene-d5	0.045	0.050	90	35-114	
Phenol-d6	0.026	0.050	52	10-94	
Terphenyl-D14	0.054	0.050	108	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

Lab Batch #: 768376

Sample: 535255-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 18:38

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.046	0.050	92	43-116	
2-Fluorophenol	0.035	0.050	70	21-100	
Nitrobenzene-d5	0.045	0.050	90	35-114	
Phenol-d6	0.026	0.050	52	10-94	
Terphenyl-D14	0.051	0.050	102	33-141	
2,4,6-Tribromophenol	0.036	0.050	72	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 340653,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768376

Sample: 340653-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 19:16

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.049	0.055	89	43-116	
2-Fluorophenol	0.029	0.055	53	21-100	
Nitrobenzene-d5	0.042	0.055	76	35-114	
Phenol-d6	0.018	0.055	33	10-94	
Terphenyl-D14	0.054	0.055	98	33-141	
2,4,6-Tribromophenol	0.033	0.055	60	10-123	

Lab Batch #: 768376

Sample: 340653-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 19:54

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.046	0.053	87	43-116	
2-Fluorophenol	0.026	0.053	49	21-100	
Nitrobenzene-d5	0.039	0.053	74	35-114	
Phenol-d6	0.016	0.053	30	10-94	
Terphenyl-D14	0.051	0.053	96	33-141	
2,4,6-Tribromophenol	0.032	0.053	60	10-123	

Lab Batch #: 768376

Sample: 340653-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/12/09 20:31

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.045	0.054	83	43-116	
2-Fluorophenol	0.028	0.054	52	21-100	
Nitrobenzene-d5	0.039	0.054	72	35-114	
Phenol-d6	0.017	0.054	31	10-94	
Terphenyl-D14	0.050	0.054	93	33-141	
2,4,6-Tribromophenol	0.030	0.054	56	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Project Name: 900 S. Central Avenue

Work Order #: 340653

Analyst: KAN

Lab Batch ID: 768376

Sample: 535255-1-BKS

Date Prepared: 08/12/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/12/2009

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
SVOAs by SW-846 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acenaphthene	<0.001	0.050	0.042	84	0.05	0.042	84	0	27-132	31	
Acenaphthylene	<0.001	0.050	0.042	84	0.05	0.042	84	0	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.001	0.050	0.042	84	0.05	0.043	86	2	5-115	25	
Anthracene	<0.001	0.050	0.042	84	0.05	0.041	82	2	47-145	25	
Benzo(a)anthracene	<0.001	0.050	0.044	88	0.05	0.042	84	5	33-143	25	
Benzo(a)pyrene	<0.001	0.050	0.047	94	0.05	0.045	90	4	65-135	25	
Benzo(b)fluoranthene	<0.001	0.050	0.043	86	0.05	0.041	82	5	24-159	25	
Benzo(k)fluoranthene	<0.001	0.050	0.046	92	0.05	0.044	88	4	25-125	25	
Benzo(g,h,i)perylene	<0.001	0.050	0.045	90	0.05	0.041	82	9	65-135	25	
Benzoic Acid	<0.009	0.150	0.104	69	0.15	0.100	67	4	30-115	40	
Butyl Phthalate	<0.001	0.050	0.052	104	0.05	0.049	98	6	65-135	25	
bis(2-chloroethoxy) methane	<0.001	0.050	0.039	78	0.05	0.039	78	0	54-188	25	
bis(2-chloroethyl) ether	<0.001	0.050	0.038	76	0.05	0.039	78	3	65-135	25	
bis(2-chloroisopropyl) ether	<0.001	0.050	0.035	70	0.05	0.034	68	3	65-135	25	
bis(2-ethylhexyl) phthalate	<0.001	0.050	0.043	86	0.05	0.042	84	2	8-158	25	
4-Bromophenyl-phenylether	<0.001	0.050	0.043	86	0.05	0.041	82	5	65-135	25	
4-chloro-3-methylphenol	<0.001	0.050	0.048	96	0.05	0.047	94	2	16-129	33	
4-Chloroaniline	<0.001	0.050	0.055	110	0.05	0.056	112	2	9-128	25	
2-Chloronaphthalene	<0.001	0.050	0.042	84	0.05	0.043	86	2	65-135	25	
2-Chlorophenol	<0.001	0.050	0.040	80	0.05	0.041	82	2	16-116	40	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)]

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 340653

Analyst: KAN

Lab Batch ID: 768376

Sample: 535255-1-BKS

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/12/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
4-Chlorophenyl Phenyl Ether		<0.001	0.050	0.042	84	0.05	0.041	82	2	65-135	25	
Chrysene		<0.001	0.050	0.048	96	0.05	0.047	94	2	65-135	25	
Dibenz(a,h)anthracene		<0.001	0.050	0.046	92	0.05	0.043	86	7	50-125	25	
Dibenzofuran		<0.001	0.050	0.043	86	0.05	0.042	84	2	52-125	25	
di-n-Butyl Phthalate		<0.003	0.050	0.041	82	0.05	0.039	78	5	49-135	50	
3,3-Dichlorobenzidine		<0.002	0.050	0.056	112	0.05	0.053	106	6	12-147	25	
2,4-Dichlorophenol		<0.001	0.050	0.048	96	0.05	0.049	98	2	65-135	25	
Diethyl Phthalate		<0.001	0.050	0.043	86	0.05	0.041	82	5	37-125	50	
Dimethyl Phthalate		<0.001	0.050	0.043	86	0.05	0.041	82	5	25-175	50	
2,4-Dimethylphenol		<0.001	0.050	0.050	100	0.05	0.049	98	2	32-119	25	
4,6-dinitro-2-methyl phenol		<0.001	0.050	0.041	82	0.05	0.039	78	5	2-181	25	
2,4-Dinitrophenol		<0.001	0.050	0.039	78	0.05	0.039	78	0	65-135	25	
2,4-Dinitrotoluene		<0.001	0.050	0.044	88	0.05	0.042	84	5	22-135	38	
2,6-Dinitrotoluene		<0.001	0.050	0.041	82	0.05	0.040	80	2	49-122	38	
di-n-Octyl Phthalate		<0.001	0.050	0.044	88	0.05	0.042	84	5	43-134	50	
Fluoranthene		<0.001	0.050	0.041	82	0.05	0.039	78	5	47-125	25	
Fluorene		<0.001	0.050	0.042	84	0.05	0.041	82	2	48-139	25	
Hexachlorobenzene		<0.001	0.050	0.044	88	0.05	0.042	84	5	46-133	25	
Hexachlorocyclopentadiene		<0.001	0.050	0.042	84	0.05	0.040	80	5	41-125	25	
Hexachloroethane		<0.001	0.050	0.037	74	0.05	0.039	78	5	25-153	25	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)]
 Blank Spike Recovery [D] = 100*(C)/[B]
 Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
 All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 340653

Analyst: KAN

Lab Batch ID: 768376

Sample: 535255-1-BKS

Date Prepared: 08/12/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/12/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C												
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Indeno(1,2,3-c,d)Pyrene	<0.001	0.050	0.049	98	0.05	0.046	92	6	27-160	25		
Isophorone	<0.001	0.050	0.051	102	0.05	0.052	104	2	26-175	25		
2-Methylnaphthalene	<0.001	0.050	0.051	102	0.05	0.051	102	0	25-175	25		
2-methylphenol	<0.001	0.050	0.041	82	0.05	0.041	82	0	14-176	25		
3&4-Methylphenol	<0.002	0.100	0.081	81	0.1	0.082	82	1	14-176	25		
Naphthalene	<0.001	0.050	0.044	88	0.05	0.044	88	0	26-175	25		
2-Nitroaniline	<0.001	0.050	0.039	78	0.05	0.038	76	3	65-135	25		
3-Nitroaniline	<0.002	0.050	0.049	98	0.05	0.048	96	2	65-135	25		
4-Nitroaniline	<0.001	0.050	0.052	104	0.05	0.052	104	0	65-135	25		
Nitrobenzene	<0.001	0.050	0.041	82	0.05	0.042	84	2	65-135	25		
2-Nitrophenol	<0.001	0.050	0.048	96	0.05	0.048	96	0	65-135	25		
4-Nitrophenol	<0.001	0.050	0.040	80	0.05	0.037	74	8	10-80	50		
N-Nitrosodi-n-Propylamine	<0.001	0.050	0.051	102	0.05	0.052	104	2	22-134	38		
N-Nitrosodiphenylamine	<0.002	0.050	0.036	72	0.05	0.035	70	3	2-196	25		
Pentachlorophenol	<0.001	0.050	0.030	60	0.05	0.023	46	26	17-117	50		
Phenanthrene	<0.001	0.050	0.042	84	0.05	0.041	82	2	65-135	25		
Phenol	<0.001	0.050	0.030	60	0.05	0.027	54	11	12-110	25		
Pyrene	<0.001	0.050	0.055	110	0.05	0.053	106	4	23-152	31		
Pyridine	<0.004	0.050	0.021	42	0.05	0.023	46	9	16-86	28		
2,4,5-Trichlorophenol	<0.001	0.050	0.037	74	0.05	0.036	72	3	65-135	25		

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 340653
Analyst: KAN
Lab Batch ID: 768376
Sample: 535255-1-BKS
Units: mg/L

Project ID: Route 111 & Rand Ave Vicinity/21561979
Date Analyzed: 08/12/2009
Date Prepared: 08/12/2009
Batch #: 1
Matrix: Water

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		<0.001	0.050	0.041	82	0.05	0.041	82	0	65-135	25	
2,4,6-Trichlorophenol												

Relative Percent Difference RPD = $200 * [(C-F) / (C+F)]$
 Blank Spike Recovery [D] = $100 * (C) / [B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$
 All results are based on MDL and Validated for QC Purposes



Prelogin / Nonconformance Report - Sample Log-In

Client: URS CORPORATION
 Date/Time: 08/12/09
 Lab ID #: 340653
 Initials: Q-M-

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No. <u>1490</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>42</u> lbs <u>2.1</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 340792

Reviewer: Tony Sedlacek

Date Reviewed: 1/7/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-17-58	GWP-17-50
TB08102009	GWP-18-50
GWP-18-58	GWP-18-58D
GWP-19-50	GWP-19-58
GWP-20-50	GWP-20-58

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that VOC MS/MSD recoveries were outside evaluation criteria. This issue is addressed further in the appropriate section below.

The cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

Yes, sample GWP-17-58 was spiked and analyzed for VOCs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
GWP-17-58	VOCs	Acetone	42/42	1	60-140/21
GWP-17-58	VOCs	2-Butanone	58/60	3	60-140/20

USEPA National Functional Guidelines for Superfund Organic Methods Data Review indicates that organic data should not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria; therefore, no qualification of the data was required.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
GWP-18-58	GWP-18-58D

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 340792

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

18-AUG-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Houston - Dallas - San Antonio - Tampa - Miami - Midland - Corpus Christi - Atlanta - Latin America



18-AUG-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **340792**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 340792. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 340792 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Sample Cross Reference 340792



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-17-58	W	Aug-10-09 15:00		340792-001
GWP-17-50	W	Aug-10-09 16:40		340792-002
TB08102009	W	Aug-10-09 00:00		340792-003
GWP-18-50	W	Aug-11-09 10:45		340792-004
GWP-18-58	W	Aug-11-09 12:15		340792-005
GWP-18-58D	W	Aug-11-09 12:15		340792-006
GWP-19-50	W	Aug-12-09 09:50		340792-007
GWP-19-58	W	Aug-12-09 11:15		340792-008
GWP-20-50	W	Aug-12-09 13:25		340792-009
GWP-20-58	W	Aug-12-09 15:00		340792-010

CASE NARRATIVE



Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic

Work Order Number: 340792

Report Date: 18-AUG-09

Date Received: 08/13/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-768721 VOAs by SW-846 8260B

2-Butanone recovered below QC limits in the Matrix Spike. Acetone recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 340792-003, -002, -007, -009, -010, -008, -005, -006, -001, -004.

The Laboratory Control Sample for Acetone, 2-Butanone is within laboratory Control Limits



Certificate of Analysis Summary 340792

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084
Date Received in Lab: Thu Aug-13-09 08:30 am
Report Date: 18-AUG-09
Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	340792-001	340792-002	340792-003	340792-004	340792-005	340792-006
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL:	GWP-17-58 Aug-10-09 15:00 Aug-16-09 11:02 Aug-16-09 12:47 ug/L RL U 100	GWP-17-50 Aug-10-09 16:40 Aug-16-09 11:10 Aug-16-09 14:17 ug/L RL U 100	TB08102009 Aug-10-09 00:00 Aug-16-09 11:00 Aug-16-09 12:25 ug/L RL U 100	GWP-18-50 Aug-11-09 10:45 Aug-16-09 11:12 Aug-16-09 14:40 ug/L RL U 100	GWP-18-58 Aug-11-09 12:15 Aug-16-09 11:14 Aug-16-09 15:03 ug/L RL U 100	GWP-18-58D Aug-11-09 12:15 Aug-16-09 11:16 Aug-16-09 15:26 ug/L RL U 100
VOAs by SW-846 8260B							
Acetone		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Benzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromobenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromochloromethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromodichloromethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromoform		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromomethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
2-Butanone		U 50.0	U 50.0	U 50.0	U 50.0	U 50.0	U 50.0
MTBE		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
n-Butylbenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Sec-Butylbenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
tert-Butylbenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Carbon Disulfide		U 50.0	U 50.0	U 50.0	U 50.0	U 50.0	U 50.0
Carbon Tetrachloride		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Chlorobenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Chloroethane		U 10.0	U 10.0	U 10.0	U 10.0	U 10.0	U 10.0
Chloroform		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Chloromethane		U 10.0	U 10.0	U 10.0	U 10.0	U 10.0	U 10.0
2-Chlorotoluene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
4-Chlorotoluene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
p-Cymene (p-Isopropyltoluene)		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Dibromochloromethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2-Dibromo-3-Chloropropane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Dibromomethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2-Dichlorobenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 340792

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Thu Aug-13-09 08:30 am

Report Date: 18-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	340792-001	340792-002	340792-003	340792-004	340792-005	340792-006
VOAs by SW-846 8260B				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,4-Trichlorobenzene				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,1-Trichloroethane				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,2-Trichloroethane				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Trichloroethene				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Trichlorofluoromethane				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,3-Trichloropropane				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,4-Trimethylbenzene				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,3,5-Trimethylbenzene				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
o-Xylene				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
m,p-Xylenes				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Vinyl Acetate				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Vinyl Chloride				WATER	Aug-10-09 15:00	Aug-16-09 11:02	Aug-16-09 12:47	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00

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Carlos Casero
Managing Director, Texas

Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-13-09 08:30 am
Report Date: 18-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	340792-007	340792-008	340792-009	340792-010
	Field Id:	GWP-19-50	GWP-19-58	GWP-20-50	GWP-20-58
Depth:					
Matrix:	WATER	WATER	WATER	WATER	WATER
Sampled:	Aug-12-09 09:50	Aug-12-09 11:15	Aug-12-09 13:25	Aug-12-09 15:00	
Extracted:	Aug-16-09 11:18	Aug-16-09 11:20	Aug-16-09 11:22	Aug-16-09 11:24	
Analyzed:	Aug-16-09 15:48	Aug-16-09 16:11	Aug-16-09 16:34	Aug-16-09 16:56	
Units/RL:	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL
Acetone	U 100	U 100	U 100	U 100	U 100
Benzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromochloromethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromodichloromethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromoform	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromomethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
2-Butanone	U 50.0	U 50.0	U 50.0	U 50.0	U 50.0
MTBE	U 5.00	U 5.00	U 5.00	2.37 J	U 5.00
n-Butylbenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Sec-Butylbenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
tert-Butylbenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Carbon Disulfide	U 50.0	U 50.0	U 50.0	U 50.0	U 50.0
Carbon Tetrachloride	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Chlorobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Chloroethane	U 10.0	U 10.0	U 10.0	U 10.0	U 10.0
Chloroform	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Chloromethane	U 10.0	U 10.0	U 10.0	U 10.0	U 10.0
2-Chlorotoluene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
4-Chlorotoluene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
p-Cymene (p-Isopropyltoluene)	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Dibromochloromethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2-Dibromo-3-Chloropropane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Dibromomethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2-Dichlorobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 340792

URS Corporation-St. Louis, St. Louis, MO



Project Name: 900 S. Central Avenue

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Thu Aug-13-09 08:30 am

Report Date: 18-AUG-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	340792-007	340792-008	340792-009	340792-010
	Field Id:	GWP-19-50	GWP-19-58	GWP-20-50	GWP-20-58
Depth:					
Matrix:	WATER	WATER	WATER	WATER	WATER
Sampled:	Aug-12-09 09:50	Aug-12-09 11:15	Aug-12-09 13:25	Aug-12-09 15:00	Aug-12-09 15:00
Extracted:	Aug-16-09 11:18	Aug-16-09 11:20	Aug-16-09 11:22	Aug-16-09 11:24	Aug-16-09 11:24
Analyzed:	Aug-16-09 15:48	Aug-16-09 16:11	Aug-16-09 16:34	Aug-16-09 16:56	Aug-16-09 16:56
Units/RL:	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL
1,3-Dichlorobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,4-Dichlorobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Dichlorodifluoromethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1-Dichloroethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2-Dichloroethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1-Dichloroethene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
cis-1,2-Dichloroethene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
trans-1,2-dichloroethene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2-Dichloropropane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,3-Dichloropropane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
2,2-Dichloropropane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1-Dichloropropene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
cis-1,3-Dichloropropene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
trans-1,3-dichloropropene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Ethylbenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Hexachlorobutadiene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
isopropylbenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Methylene Chloride	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
n-Propylbenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Styrene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,1,2-Tetrachloroethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,2,2-Tetrachloroethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Tetrachloroethylene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Toluene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,3-Trichlorobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00

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Carlos Castro

Managing Director, Texas



Certificate of Analysis Summary 340792

URS Corporation-St. Louis, St. Louis, MO

Project Name: 900 S. Central Avenue



Date Received in Lab: Thu Aug-13-09 08:30 am

Report Date: 18-AUG-09

Project Manager: Debbie Simmons

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Analysis Requested	Lab Id:	340792-007	340792-008	340792-009	340792-010
	Field Id: Depth: Matrix: Sampled:	GWP-19-50 WATER Aug-12-09 09:50	GWP-19-58 WATER Aug-12-09 11:15	GWP-20-50 WATER Aug-12-09 13:25	GWP-20-58 WATER Aug-12-09 15:00
VOAs by SW-846 8260B	Extracted: Analyzed: Units/RL:	Aug-16-09 11:18 Aug-16-09 15:48 ug/L RL	Aug-16-09 11:20 Aug-16-09 16:11 ug/L RL	Aug-16-09 11:22 Aug-16-09 16:34 ug/L RL	Aug-16-09 11:24 Aug-16-09 16:56 ug/L RL
1,2,4-Trichlorobenzene		U 5.00	U 5.00	U 5.00	U 5.00
1,1,1-Trichloroethane		U 5.00	U 5.00	U 5.00	U 5.00
1,1,2-Trichloroethane		U 5.00	U 5.00	U 5.00	U 5.00
Trichloroethene		U 5.00	U 5.00	U 5.00	U 5.00
Trichlorofluoromethane		U 5.00	U 5.00	U 5.00	U 5.00
1,2,3-Trichloropropane		U 5.00	U 5.00	U 5.00	U 5.00
1,2,4-Trimethylbenzene		U 5.00	U 5.00	U 5.00	U 5.00
1,3,5-Trimethylbenzene		U 5.00	U 5.00	U 5.00	U 5.00
o-Xylene		U 5.00	U 5.00	U 5.00	U 5.00
m,p-Xylenes		U 10.0	U 10.0	U 10.0	U 10.0
Vinyl Acetate		U 50.0	U 50.0	U 50.0	U 50.0
Vinyl Chloride		U 2.00	U 2.00	U 2.00	U 2.00

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Carlos Castro

Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : VOAs by SW-846 8260B

Client : URS Corporation-St. Louis

Work Order #: 340792

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
TB08102009	Aug. 10, 2009	Aug. 13, 2009				Aug.16, 2009	14	6	P
GWP-18-50	Aug. 11, 2009	Aug. 13, 2009				Aug.16, 2009	14	5	P
GWP-19-50	Aug. 12, 2009	Aug. 13, 2009				Aug.16, 2009	14	4	P
GWP-18-58	Aug. 11, 2009	Aug. 13, 2009				Aug.16, 2009	14	5	P
GWP-17-58	Aug. 10, 2009	Aug. 13, 2009				Aug.16, 2009	14	6	P
GWP-19-58	Aug. 12, 2009	Aug. 13, 2009				Aug.16, 2009	14	4	P
GWP-17-50	Aug. 10, 2009	Aug. 13, 2009				Aug.16, 2009	14	6	P
GWP-20-50	Aug. 12, 2009	Aug. 13, 2009				Aug.16, 2009	14	4	P
GWP-20-58	Aug. 12, 2009	Aug. 13, 2009				Aug.16, 2009	14	4	P
GWP-18-58D	Aug. 11, 2009	Aug. 13, 2009				Aug.16, 2009	14	5	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 340792,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768721

Sample: 535514-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 11:13

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0514	0.0500	103	74-124	
Dibromofluoromethane	0.0484	0.0500	97	75-131	
1,2-Dichloroethane-D4	0.0503	0.0500	101	63-144	
Toluene-D8	0.0501	0.0500	100	80-117	

Lab Batch #: 768721

Sample: 535514-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 11:59

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0502	0.0500	100	74-124	
Dibromofluoromethane	0.0478	0.0500	96	75-131	
1,2-Dichloroethane-D4	0.0551	0.0500	110	63-144	
Toluene-D8	0.0492	0.0500	98	80-117	

Lab Batch #: 768721

Sample: 340792-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 12:25

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0511	0.0500	102	74-124	
Dibromofluoromethane	0.0495	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0532	0.0500	106	63-144	
Toluene-D8	0.0503	0.0500	101	80-117	

Lab Batch #: 768721

Sample: 340792-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 12:47

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0484	0.0500	97	74-124	
Dibromofluoromethane	0.0495	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0550	0.0500	110	63-144	
Toluene-D8	0.0505	0.0500	101	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 340792,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768721

Sample: 340792-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 13:09

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0494	0.0500	99	74-124	
Dibromofluoromethane	0.0503	0.0500	101	75-131	
1,2-Dichloroethane-D4	0.0507	0.0500	101	63-144	
Toluene-D8	0.0498	0.0500	100	80-117	

Lab Batch #: 768721

Sample: 340792-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 13:31

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0513	0.0500	103	74-124	
Dibromofluoromethane	0.0505	0.0500	101	75-131	
1,2-Dichloroethane-D4	0.0523	0.0500	105	63-144	
Toluene-D8	0.0501	0.0500	100	80-117	

Lab Batch #: 768721

Sample: 340792-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 14:17

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0492	0.0500	98	74-124	
Dibromofluoromethane	0.0471	0.0500	94	75-131	
1,2-Dichloroethane-D4	0.0531	0.0500	106	63-144	
Toluene-D8	0.0491	0.0500	98	80-117	

Lab Batch #: 768721

Sample: 340792-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 14:40

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0510	0.0500	102	74-124	
Dibromofluoromethane	0.0485	0.0500	97	75-131	
1,2-Dichloroethane-D4	0.0550	0.0500	110	63-144	
Toluene-D8	0.0495	0.0500	99	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 340792,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768721

Sample: 340792-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 15:03

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0486	0.0500	97	74-124	
Dibromofluoromethane	0.0503	0.0500	101	75-131	
1,2-Dichloroethane-D4	0.0545	0.0500	109	63-144	
Toluene-D8	0.0486	0.0500	97	80-117	

Lab Batch #: 768721

Sample: 340792-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 15:26

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0486	0.0500	97	74-124	
Dibromofluoromethane	0.0467	0.0500	93	75-131	
1,2-Dichloroethane-D4	0.0535	0.0500	107	63-144	
Toluene-D8	0.0496	0.0500	99	80-117	

Lab Batch #: 768721

Sample: 340792-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 15:48

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0478	0.0500	96	74-124	
Dibromofluoromethane	0.0472	0.0500	94	75-131	
1,2-Dichloroethane-D4	0.0528	0.0500	106	63-144	
Toluene-D8	0.0491	0.0500	98	80-117	

Lab Batch #: 768721

Sample: 340792-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 16:11

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0497	0.0500	99	74-124	
Dibromofluoromethane	0.0497	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0574	0.0500	115	63-144	
Toluene-D8	0.0484	0.0500	97	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 340792,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768721

Sample: 340792-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 16:34

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0502	0.0500	100	74-124	
Dibromofluoromethane	0.0494	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0539	0.0500	108	63-144	
Toluene-D8	0.0486	0.0500	97	80-117	

Lab Batch #: 768721

Sample: 340792-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 08/16/09 16:56

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0481	0.0500	96	74-124	
Dibromofluoromethane	0.0491	0.0500	98	75-131	
1,2-Dichloroethane-D4	0.0467	0.0500	93	63-144	
Toluene-D8	0.0496	0.0500	99	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 340792

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768721

Sample: 535514-1-BKS

Matrix: Water

Date Analyzed: 08/16/2009

Date Prepared: 08/16/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	551	110	60-140	
Benzene	<1.00	50.0	49.2	98	66-142	
Bromobenzene	<1.00	50.0	53.9	108	75-125	
Bromochloromethane	<1.00	50.0	46.7	93	73-125	
Bromodichloromethane	<1.00	50.0	49.6	99	75-125	
Bromoform	<1.00	50.0	43.5	87	75-125	
Bromomethane	<1.00	50.0	54.7	109	70-130	
2-Butanone	<10.0	500	560	112	60-140	
MTBE	<1.00	50.0	50.5	101	65-135	
n-Butylbenzene	<1.00	50.0	58.5	117	75-125	
Sec-Butylbenzene	<1.00	50.0	57.4	115	75-125	
tert-Butylbenzene	<1.00	50.0	56.3	113	75-125	
Carbon Disulfide	<10.0	500	543	109	60-140	
Carbon Tetrachloride	<1.00	50.0	47.9	96	62-125	
Chlorobenzene	<1.00	50.0	49.0	98	60-133	
Chloroethane	<2.00	50.0	59.7	119	70-130	
Chloroform	<1.00	50.0	51.1	102	74-125	
Chloromethane	<2.00	50.0	56.8	114	70-130	
2-Chlorotoluene	<1.00	50.0	54.3	109	73-125	
4-Chlorotoluene	<1.00	50.0	55.4	111	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	57.1	114	75-125	
Dibromochloromethane	<1.00	50.0	46.6	93	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	49.3	99	59-125	
Dibromomethane	<1.00	50.0	49.6	99	69-127	
1,2-Dichlorobenzene	<1.00	50.0	52.8	106	75-125	
1,3-Dichlorobenzene	<1.00	50.0	53.4	107	75-125	
1,4-Dichlorobenzene	<1.00	50.0	53.5	107	75-125	
Dichlorodifluoromethane	<1.00	50.0	55.9	112	70-130	
1,1-Dichloroethane	<1.00	50.0	51.5	103	72-125	
1,2-Dichloroethane	<1.00	50.0	48.4	97	68-127	
1,1-Dichloroethene	<1.00	50.0	54.9	110	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	50.2	100	75-125	
trans-1,2-dichloroethene	<1.00	50.0	50.9	102	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 340792

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 768721

Sample: 535514-1-BKS

Matrix: Water

Date Analyzed: 08/16/2009

Date Prepared: 08/16/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	51.6	103	74-125	
1,3-Dichloropropane	<1.00	50.0	51.3	103	75-125	
2,2-Dichloropropane	<1.00	50.0	53.6	107	75-125	
1,1-Dichloropropene	<1.00	50.0	51.9	104	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	51.8	104	74-125	
trans-1,3-dichloropropene	<1.00	50.0	52.4	105	66-125	
Ethylbenzene	<1.00	50.0	51.6	103	75-125	
Hexachlorobutadiene	<1.00	50.0	53.8	108	75-125	
isopropylbenzene	<1.00	50.0	51.9	104	75-125	
Methylene Chloride	<1.00	50.0	47.0	94	75-125	
n-Propylbenzene	<1.00	50.0	56.1	112	75-125	
Styrene	<1.00	50.0	52.7	105	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	49.0	98	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	52.9	106	74-125	
Tetrachloroethylene	<1.00	50.0	49.3	99	71-125	
Toluene	<1.00	50.0	50.7	101	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	49.8	100	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	52.5	105	75-135	
1,1,1-Trichloroethane	<1.00	50.0	50.0	100	75-125	
1,1,2-Trichloroethane	<1.00	50.0	51.6	103	75-127	
Trichloroethene	<1.00	50.0	48.5	97	62-137	
Trichlorofluoromethane	<1.00	50.0	53.7	107	67-125	
1,2,3-Trichloropropane	<1.00	50.0	53.4	107	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	55.5	111	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	55.9	112	70-125	
o-Xylene	<1.00	50.0	51.9	104	75-125	
m,p-Xylenes	<2.00	100	103	103	75-125	
Vinyl Acetate	<10.0	500	594	119	60-140	
Vinyl Chloride	<0.400	50.0	53.4	107	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 340792

Lab Batch ID: 768721

Date Analyzed: 08/16/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 340792-001 S Batch #: 1 Matrix: Water

Date Prepared: 08/16/2009 Analyst: ZHO

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acetone	<100	500	210	42	500	212	42	1	60-140	21	X
Benzene	<5.00	50.0	40.7	81	50.0	40.5	81	0	66-142	21	
Bromobenzene	<5.00	50.0	45.5	91	50.0	47.6	95	5	75-125	20	
Bromochloromethane	<5.00	50.0	46.7	93	50.0	45.7	91	2	73-125	20	
Bromodichloromethane	<5.00	50.0	46.0	92	50.0	46.2	92	0	75-125	20	
Bromoform	<5.00	50.0	38.6	77	50.0	39.8	80	3	75-125	20	
Bromomethane	<5.00	50.0	39.2	78	50.0	41.2	82	5	70-130	20	
2-Butanone	<5.00	500	290	58	500	299	60	3	60-140	20	X
MTBE	<5.00	50.0	50.7	101	50.0	51.7	103	2	65-135	20	
n-Butylbenzene	<5.00	50.0	50.9	102	50.0	54.0	108	6	75-125	20	
Sec-Butylbenzene	<5.00	50.0	51.0	102	50.0	53.8	108	5	75-125	20	
tert-Butylbenzene	<5.00	50.0	48.9	98	50.0	52.2	104	7	75-125	20	
Carbon Disulfide	<5.00	500	456	91	500	450	90	1	60-140	20	
Carbon Tetrachloride	<5.00	50.0	45.3	91	50.0	46.1	92	2	62-125	20	
Chlorobenzene	<5.00	50.0	42.5	85	50.0	44.7	89	5	60-133	21	
Chloroethane	<10.0	50.0	45.4	91	50.0	46.0	92	1	70-130	20	
Chloroform	<5.00	50.0	45.5	91	50.0	45.9	92	1	74-125	20	
Chloromethane	<10.0	50.0	41.2	82	50.0	41.2	82	0	70-130	20	
2-Chlorotoluene	<5.00	50.0	45.5	91	50.0	46.3	93	2	73-125	20	
4-Chlorotoluene	<5.00	50.0	44.9	90	50.0	48.0	96	7	74-125	20	
p-Cymene (p-Isopropyltoluene)	<5.00	50.0	50.2	100	50.0	53.1	106	6	75-125	20	
Dibromochloromethane	<5.00	50.0	36.6	73	50.0	39.0	78	6	73-125	20	
1,2-Dibromo-3-Chloropropane	<5.00	50.0	46.1	92	50.0	53.0	106	14	59-125	28	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference RPD = 200*(C-F)/(C+F)
 ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Project Name: 900 S. Central Avenue

Work Order #: 340792

Lab Batch ID: 768721

Date Analyzed: 08/16/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 340792-001 S

Date Prepared: 08/16/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dibromomethane	<5.00	50.0	43.5	87	50.0	42.8	86	2	69-127	23	
1,2-Dichlorobenzene	<5.00	50.0	44.8	90	50.0	48.2	96	7	75-125	20	
1,3-Dichlorobenzene	<5.00	50.0	48.3	97	50.0	50.7	101	5	75-125	20	
1,4-Dichlorobenzene	<5.00	50.0	42.1	84	50.0	45.9	92	9	75-125	20	
Dichlorodifluoromethane	<5.00	50.0	50.2	100	50.0	51.1	102	2	70-130	23	
1,1-Dichloroethane	<5.00	50.0	48.6	97	50.0	48.9	98	1	72-125	20	
1,2-Dichloroethane	<5.00	50.0	41.6	83	50.0	41.8	84	0	68-127	20	
1,1,1-Dichloroethane	<5.00	50.0	52.2	104	50.0	51.7	103	1	59-172	22	
cis-1,2-Dichloroethene	<5.00	50.0	47.1	94	50.0	47.0	94	0	75-125	20	
trans-1,2-dichloroethene	<5.00	50.0	41.8	84	50.0	42.6	85	2	75-125	20	
1,2-Dichloropropane	<5.00	50.0	45.9	92	50.0	44.9	90	2	74-125	20	
1,3-Dichloropropane	<5.00	50.0	43.2	86	50.0	46.3	93	7	75-125	20	
2,2-Dichloropropane	<5.00	50.0	48.6	97	50.0	49.5	99	2	75-125	20	
1,1-Dichloropropene	<5.00	50.0	44.8	90	50.0	46.5	93	4	75-125	20	
cis-1,3-Dichloropropene	<5.00	50.0	38.3	77	50.0	39.1	78	2	74-125	20	
trans-1,3-dichloropropene	<5.00	50.0	39.6	79	50.0	41.3	83	4	66-125	20	
Ethylbenzene	<5.00	50.0	45.4	91	50.0	46.6	93	3	75-125	20	
Hexachlorobutadiene	<5.00	50.0	46.8	94	50.0	50.4	101	7	75-125	20	
isopropylbenzene	<5.00	50.0	47.6	95	50.0	49.5	99	4	75-125	20	
Methylene Chloride	<5.00	50.0	39.1	78	50.0	39.7	79	2	75-125	35	
n-Propylbenzene	<5.00	50.0	49.1	98	50.0	51.7	103	5	75-125	20	
Styrene	<5.00	50.0	41.2	82	50.0	42.0	84	2	75-125	51	
1,1,1,2-Tetrachloroethane	<5.00	50.0	44.2	88	50.0	44.9	90	2	72-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 340792

Lab Batch ID: 768721

Date Analyzed: 08/16/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC-Sample ID: 340792-001 S

Date Prepared: 08/16/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<5.00	50.0	45.9	92	50.0	49.0	98	7	74-125	31	
Tetrachloroethylene	<5.00	50.0	46.1	92	50.0	48.9	98	6	71-125	20	
Toluene	<5.00	50.0	41.1	82	50.0	41.5	83	1	59-139	21	
1,2,3-Trichlorobenzene	<5.00	50.0	44.1	88	50.0	47.7	95	8	75-137	20	
1,2,4-Trichlorobenzene	<5.00	50.0	42.8	86	50.0	46.9	94	9	75-135	20	
1,1,1-Trichloroethane	<5.00	50.0	50.0	100	50.0	49.4	99	1	75-125	20	
1,1,2-Trichloroethane	<5.00	50.0	46.1	92	50.0	47.0	94	2	75-127	20	
Trichloroethene	<5.00	50.0	44.7	89	50.0	44.6	89	0	62-137	24	
Trichlorofluoromethane	<5.00	50.0	49.6	99	50.0	50.8	102	2	67-125	20	
1,2,3-Trichloropropane	<5.00	50.0	49.1	98	50.0	51.4	103	5	75-125	20	
1,2,4-Trimethylbenzene	<5.00	50.0	45.5	91	50.0	48.4	97	6	75-125	20	
1,3,5-Trimethylbenzene	<5.00	50.0	46.2	92	50.0	47.0	94	2	70-125	20	
o-Xylene	<5.00	50.0	43.0	86	50.0	42.8	86	0	75-125	20	
m,p-Xylenes	<10.0	100	89.8	90	100	92.6	93	3	75-125	20	
Vinyl Acetate	<50.0	500	339	68	500	337	67	1	60-140	20	
Vinyl Chloride	<2.00	50.0	42.6	85	50.0	42.9	86	1	75-125	20	

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableEN = See Narrative, EQL = Estimated Quantitation Limit



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
4143 Greenbriar Dr., Stafford, TX 77477
PH: 281-240-4200 FAX: 281-240-4280

- XENCO
- CALSCIENCE
- TEST AMERICA
- SPL
- OTHER

- Please Check Appropriate Box:
- ENV. SERVICES
 - MOTIVA RETAIL
 - CONSULTANT
 - SHELL PIPELINE
 - SHELL RETAIL
 - LUBES
 - OTHER

Print Bill To Contact Name: KEVIN DYER
 INCIDENT # (ENV. SERVICES): 9 7 2 1 6 6 4 0
 DATE: 08/12/09
 PAGE: 1 of 1

CONSULTANT COMPANY: URS CORPORATION - FIELD OFFICE
 ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300
 CITY: ST. LOUIS, MISSOURI 63110
 PHONE: OFF: 314-743-4166 FAX: OFF: 314-743-4166
 CELL: 314-452-8929 CELL: 314-452-8929
 TURNAROUND TIME (CALENDAR DAYS): 5 DAYS
 STANDARD (10 DAY) 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) EDD
 TEMPERATURE ON RECEIPT C° Cooler #1 2-7 Cooler #2
 SPECIAL INSTRUCTIONS OR NOTES: SHELL CONTRACT RATE APPLIES

CONSULTANT PROJECT NAME (NO. LAB USE ONLY):
 ROUTE 111 & Rand Ave Vicinity / 21561979
 WENDY PENNINGTON
 N. SATAM

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT.	VOC 8260B	SVOC/PAH 8270B	moisture	PID (ppm)	Laboratory Notes
	DATE	TIME	HCL	HNO3		H2SO4	NONE	OTHER						
	GWP-17-58	8/10/09	1500		Water				3	X				Temp Blank included
	GWP-17-50	8/10/09	1640		Water				2	X				5 Day turn around time
	TB 08102001	8/11/09	1045						3	X				
	GWP-18-50	8/11/09	1215						3	X				
	GWP-18-58	8/11/09	1215		Water				3	X				
	GWP-18-58D	8/11/09	0950						3	X				
	GWP-19-50	8/12/09	1115						3	X				
	GWP-19-58	8/12/09	1325						3	X				
	GWP-20-50	8/12/09	1500		Water				3	X				

Requested Analysis: VOC 8260B, SVOC/PAH 8270B, moisture

Requested by (Signature): *Wendy Pennington* Date: 08/12/09 Time: 1730

Received by (Signature): *Kevin Dyer* Date: 8/13/09 Time: 0830

Relinquished by (Signature): *Kevin Dyer* Date: 8/13/09 Time: 0830



Prelogin / Nonconformance Report - Sample Log-In

Client: ULS
Date/Time: 6-13-09
Lab ID #: 340792
Initials: F

JAS

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	<u>Yes</u>	No	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No. <u>061</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>14</u> lbs <u>2.7</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 342449

Reviewer: Tony Sedlacek

Date Reviewed: 1/7/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GP-9-18	GP-9-37
TB082509	GP-7-37
GP-7-37D	GP-7-41
GP-7-25	GP-8-13
GP-8-35	GP-8-47
GP-8-47D	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that VOC LCS, MS/MSD recoveries and a MS/MSD RPD were outside evaluation criteria. Samples were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, acetone was detected in the method blank and trip blank. Sample GP-8-47 was qualified due to field duplicate RPDs outside evaluation criteria. Sample results were qualified using professional judgment. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that an extra 2 oz. jar was received by the laboratory and the sample quantity listed on the COC was incorrect for sample GP-7-37D. Sufficient sample volume was available to complete the requested analysis. Also, there was a sample ID discrepancy between the sample label and COC. The sample label read GP-8-47D and the COC read GP-8-47. The laboratory contact URS and was directed that the sample label was correct. The sample was logged in as GP-8-47D. All sample discrepancies were resolved prior to sample analysis. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
537489-1-BLK	VOCs	Acetone	19.29	µg/L
TB082509	VOCs	Acetone	20.5	µg/L

Acetone was non-detect in all samples associated with the method blank and trip blank; therefore, no qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
537489-1-BKS	VOCs	Acetone	130/88	39	60-140/21
537489-1-BKS	VOCs	Trichlorofluoromethane	111/85	26	67-125/20
537489-1-BKS	VOCs	Vinyl acetate	96/71	30	60-140/20

Analytical data did not require qualification since LCS/LCSD recoveries were within evaluation criteria and samples are not qualified due to LCS/LCSD RPDs outside evaluation criteria alone.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

Yes, sample GP-9-37 was spiked and analyzed for VOCs.

Were MS/MSD recoveries within evaluation criteria?

No, 13 out of 62 MS recoveries, 15 out of 62 MSD recoveries and 1 out of 62 MS/MSD RPDs in sample GP-9-37 were outside evaluation criteria and were not listed individually.

USEPA National Functional Guidelines for Superfund Organic Methods Data Review indicates that organic data should not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria; therefore, no qualification of the data was required.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

Yes, sample GP-7-41 was duplicated and analyzed for percent moisture.

Were laboratory duplicate sample RPDs within criteria?

Yes

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
GP-8-47	GP-8-47D
GP-7-37	GP-7-37D

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
GP-8-47	GP-8-47D	VOCs	Benzene	200	J/UJ
GP-8-47	GP-8-47D	VOCs	sec-butylbenzene	200	J/UJ
GP-8-47	GP-8-47D	VOCs	n-butylbenzene	192	J
GP-8-47	GP-8-47D	VOCs	p-Isopropyltoluene	200	J/UJ
GP-8-47	GP-8-47D	VOCs	Ethylbenzene	199	J
GP-8-47	GP-8-47D	VOCs	Isopropylbenzene	200	J/UJ
GP-8-47	GP-8-47D	VOCs	n-Propylbenzene	198	J
GP-8-47	GP-8-47D	VOCs	Toluene	200	J/UJ
GP-8-47	GP-8-47D	VOCs	1,2,4-Trimethylbenzene	198	J
GP-8-47	GP-8-47D	VOCs	1,3,5-Trimethylbenzene	198	J

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
GP-8-47	GP-8-47D	VOCs	<i>o</i> -Xylene	200	J/UJ
GP-8-47	GP-8-47D	VOCs	<i>m,p</i> -Xylene	199	J

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes

Professional judgment was used to qualify the common laboratory contaminants acetone, 2-butanone and methylene chloride reported at concentrations less than two times (2X) the RL. In addition, samples GP-7-37, GP-7-37D and GP-7-41 were re-extracted from the moisture content sample container. Professional judgment was used to qualify sample results due to potential volatilization of VOCs during sample extraction.

Sample ID	Analyte	New RL	Qualification	Comment
GP-7-37	All VOC detects/nondetects	-	J/UJ	Professional Judgment
GP-7-37D	All VOC detects/nondetects	-	J/UJ	Professional Judgment
GP-7-41	All VOC detects/nondetects	-	J/UJ	Professional Judgment
GP-9-18	Methylene chloride	-	U	Professional Judgment
GP-8-47	Acetone	-	U	Professional Judgment
GP-8-35	2-Butanone	-	U	Professional Judgment

Analytical Report 342449

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

15-SEP-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),

South Carolina(96031001), Louisiana(04154), Georgia(917)



15-SEP-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **342449**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 342449. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 342449 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Sample Cross Reference 342449



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GP-9-18	S	Aug-25-09 12:50		342449-001
GP-9-37	S	Aug-25-09 12:55		342449-002
TB082509	W	Aug-25-09 00:00		342449-003
GP-7-37	S	Aug-26-09 10:15		342449-004
GP-7-37D	S	Aug-26-09 10:15		342449-005
GP-7-41	S	Aug-26-09 10:20		342449-006
GP-7-25	S	Aug-26-09 10:45		342449-007
GP-8-13	S	Aug-26-09 13:45		342449-008
GP-8-35	S	Aug-26-09 13:50		342449-009
GP-8-47	S	Aug-26-09 14:10		342449-010
GP-8-47D	S	Aug-26-09 14:10		342449-011



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic

Report Date: 15-SEP-09

Work Order Number: 342449

Date Received: 08/27/2009

Sample receipt non conformances and Comments:

Sample on line 011 COC has GP-8-47, label on container has GP-8-47D. This sample should be identified as GP-8-47D. For sample on line 005, there was one extra 2 oz jar, COC has 4 containers for this sample, 5 containers were received.

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-770125 Percent Moisture

None

Batch: LBA-770127 Percent Moisture

None

Batch: LBA-771536 VOAs by SW-846 8260B

1,1,2,2-Tetrachloroethane, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dichlorobenzene, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Butanone, 4-Chlorotoluene, Bromoform, Bromomethane, Carbon Disulfide, Chloroethane, Dibromochloromethane, Dibromomethane, Ethylbenzene, Hexachlorobutadiene, Styrene, Vinyl Acetate, cis-1,3-Dichloropropene, isopropylbenzene, m,p-Xylenes, n-Butylbenzene, o-Xylene, p-Cymene (p-Isopropyltoluene), trans-1,2-dichloroethene, trans-1,3-dichloropropene recovered below QC limits in the Matrix Spike. Methylene Chloride recovered above QC limits in the Matrix Spike. Samples affected are: 342449-008, -009, -007, -001, -011.

The Laboratory Control Sample for 1,3-Dichlorobenzene, Bromomethane, Methylene Chloride, 1,2,3-Trichloropropane, Vinyl Acetate, m,p-Xylenes, 1,4-Dichlorobenzene, Carbon Disulfide, cis-1,3-Dichloropropene, trans-1,3-dichloropropene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, n-Butylbenzene, Dibromomethane, Ethylbenzene, 1,1,2,2-Tetrachloroethane, o-Xylene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 2-Butanone, Dibromochloromethane, Styrene, 4-Chlorotoluene, p-Cymene (p-Isopropyltoluene), Hexachlorobutadiene, 1,2,3-Trichlorobenzene, trans-1,2-dichloroethene, 1,1-Dichloropropene, Bromoform, isopropylbenzene, Chloroethane is within laboratory Control Limits

Batch reporting MS only. MSD not reported due to internal standard failure.



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic

Work Order Number: 342449

Report Date: 15-SEP-09

Date Received: 08/27/2009

Batch: LBA-771858 VOAs by SW-846 8260B

Hexachlorobutadiene RPD was outside QC limits in the Matrix Spike/Matrix Spike Duplicate.

Samples affected are: 342449-002, -006, -005, -004

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Ethylbenzene, Hexachlorobutadiene, Vinyl Acetate, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. 2-Butanone, n-Butylbenzene recovered below QC limits in the Matrix Spike Duplicate. 2,2-Dichloropropane, Dichlorodifluoromethane, Trichlorofluoromethane recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. 1,1,1-Trichloroethane, Carbon Tetrachloride recovered above QC limits in the Matrix Spike Duplicate.

Samples affected are: 342449-002, -006, -005, -004.

The Laboratory Control Sample for Carbon Tetrachloride, Vinyl Acetate, 2,2-Dichloropropane, m,p-Xylenes, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, n-Butylbenzene, Trichlorofluoromethane, Ethylbenzene, o-Xylene, Dichlorodifluoromethane, 1,2,4-Trichlorobenzene, 1,1,1-Trichloroethane, Hexachlorobutadiene, 1,2,3-Trichlorobenzene, 2-Butanone is within laboratory Control Limits

Note: Samples 004,005 and 006 were re-extracted in methanol using jar.

Batch: LBA-771863 VOAs by SW-846 8260B

Acetone, Hexachlorobutadiene, Trichlorofluoromethane, Vinyl Acetate RPD was outside laboratory control limits.

Samples affected are: 342449-003

Acetone hit is suspected laboratory contamination. Compound present in method blank at 19.29ppb.



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic

Work Order Number: 342449

Report Date: 15-SEP-09

Date Received: 08/27/2009

Batch: LBA-771868 VOAs by SW-846 8260B

1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Chloroethane, Chloromethane, Dichlorodifluoromethane, Hexachlorobutadiene, Sec-Butylbenzene, Trichlorofluoromethane, Vinyl Chloride, n-Butylbenzene, p-Cymene (p-Isopropyltoluene) RPD was outside QC limits in the Matrix Spike/Matrix Spike Duplicate.

Samples affected are: 342449-010

1,1-Dichloroethene, Chloroethane recovered below QC limits in the Matrix Spike. 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-Chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Butanone, 2-Chlorotoluene, 4-Chlorotoluene, Benzene, Bromobenzene, Bromochloromethane, Bromodichloromethane, Bromoform, Carbon Disulfide, Carbon Tetrachloride, Chlorobenzene, Chloroform, Dibromochloromethane, Dibromomethane, Ethylbenzene, Hexachlorobutadiene, Methylene Chloride, Sec-Butylbenzene, Styrene, Tetrachloroethylene, Toluene, Trichloroethene, Vinyl Acetate, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, isopropylbenzene, m,p-Xylenes, n-Butylbenzene, n-Propylbenzene, o-Xylene, p-Cymene (p-Isopropyltoluene), tert-Butylbenzene, trans-1,2-dichloroethene, trans-1,3-dichloropropene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 342449-010.

The Laboratory Control Sample for 1,2-Dichloropropane, Bromodichloromethane, 1,3-Dichlorobenzene, Methylene Chloride, 1,1-Dichloroethane, Bromochloromethane, Carbon Tetrachloride, 1,2-Dichloroethane, Trichloroethene, Toluene, 1,3-Dichloropropane, 1,2,3-Trichloropropane, cis-1,2-Dichloroethene, 2,2-Dichloropropane, Benzene, Tetrachloroethylene, m,p-Xylenes, 2-Chlorotoluene, tert-Butylbenzene, 1,4-Dichlorobenzene, Carbon Disulfide, Vinyl Acetate, Chloroform, cis-1,3-Dichloropropene, trans-1,3-dichloropropene, Bromobenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, Sec-Butylbenzene, n-Butylbenzene, Dibromomethane, Ethylbenzene, o-Xylene, 1,1,2,2-Tetrachloroethane, 1,1-Dichloroethene, 1,1,1-Trichloroethane, 1,1,1,2-Tetrachloroethane, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, Dibromochloromethane, Chlorobenzene, Styrene, n-Propylbenzene, 4-Chlorotoluene, p-Cymene (p-Isopropyltoluene), Hexachlorobutadiene, 1,2,3-Trichlorobenzene, trans-1,2-dichloroethene, 2-Butanone, 1,1-Dichloropropene, 1,1,2-Trichloroethane, Bromoform, isopropylbenzene, 1,2-Dibromo-3-Chloropropane, Chloroethane is within laboratory Control Limits

Note: Sample reporting analysis from jar. Could not duplicate analysis from sodium bisulfate terracores. Methanol 5035 vial did not match. Subsequent runs using extract from jar confirm Methanol 5035 vial.



Certificate of Analysis Summary 342449

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-27-09 08:45 am

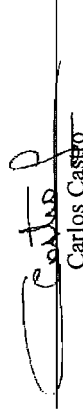
Report Date: 15-SEP-09

Project Manager: Debbie Simmons

	<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>			
Analysis Requested	342449-001	GP-9-18		SOIL	Aug-25-09 12:50		Aug-27-09 17:48	% RL	7.04	1.00	
	342449-002	GP-9-37		SOIL	Aug-25-09 12:55		Aug-27-09 17:49	% RL	19.68	1.00	
Percent Moisture	342449-003	TB082509		WATER	Aug-25-09 00:00						
	342449-004	GP-7-37		SOIL	Aug-26-09 10:15		Aug-27-09 17:50	% RL	26.88	1.00	
Percent Moisture	342449-005	GP-7-37D		SOIL	Aug-26-09 10:15		Aug-27-09 17:53	% RL	22.95	1.00	
	342449-006	GP-7-41		SOIL	Aug-26-09 10:20		Aug-27-09 17:52	% RL	23.89	1.00	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro

Managing Director, Texas



Certificate of Analysis Summary 342449

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Thu Aug-27-09 08:45 am

Report Date: 15-SEP-09

Project Manager: Debbie Simmons

Lab Id:	342449-001	342449-002	342449-003	342449-004	342449-005	342449-006
Field Id:	GP-9-18	GP-9-37	TB082509	GP-7-37	GP-7-37D	GP-7-41
Depth:						
Matrix:	SOIL	SOIL	WATER	SOIL	SOIL	SOIL
Sampled:	Aug-25-09 12:50	Aug-25-09 12:55	Aug-25-09 00:00	Aug-26-09 10:15	Aug-26-09 10:15	Aug-26-09 10:20
Extracted:	Sep-04-09 11:52	Sep-08-09 18:12	Sep-08-09 18:31	Sep-08-09 18:04	Sep-08-09 18:06	Sep-08-09 18:08
Analyzed:	Sep-04-09 14:40	Sep-08-09 23:13	Sep-08-09 19:25	Sep-08-09 21:44	Sep-08-09 22:06	Sep-08-09 22:29
Units/RL:	mg/kg RL	mg/kg RL	ug/L RL	mg/kg RL	mg/kg RL	mg/kg RL
Acetone	U 101	U 0.122	20.5 J 100	U J 6.82	U J 6.36	U J 13.1
Benzene	2.78 J 5.07	0.004 J 0.006	U 5.00	0.987 J 0.341	0.878 J 0.318	2.18 J 0.657
Bromobenzene	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
Bromochloromethane	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
Bromodichloromethane	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
Bromoform	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
Bromomethane	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
2-Butanone	U 50.7	U 0.061	U 50.0	U J 3.41	U J 3.18	U J 6.57
MTBE	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
tert-Butylbenzene	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
Sec-Butylbenzene	2.08 J 5.07	0.031 0.006	U 5.00	0.121 J 0.341	0.109 J 0.318	0.276 J 0.657
n-Butylbenzene	10.0 5.07	0.089 0.006	U 5.00	0.586 J 0.341	0.491 J 0.318	0.997 J 0.657
Carbon Disulfide	U 50.7	U 0.061	U 50.0	U J 3.41	U J 3.18	U J 6.57
Carbon Tetrachloride	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
Chlorobenzene	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
Chloroethane	U 10.1	U 0.012	U 10.0	U 0.682	U 0.656	U 1.31
Chloroform	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
Chloromethane	U 10.1	U 0.012	U 10.0	U 0.682	U 0.656	U 1.31
2-Chlorotoluene	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
4-Chlorotoluene	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
p-Cymene (p-Isopropyltoluene)	1.51 J 5.07	0.042 0.006	U 5.00	0.070 J 0.341	U 0.318	0.141 J 0.657
1,2-Dibromo-3-Chloropropane	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
Dibromochloromethane	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
Dibromomethane	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657
1,2-Dichlorobenzene	U 5.07	U 0.006	U 5.00	U J 0.341	U J 0.318	U J 0.657

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 342449

URS Corporation - St. Louis, St. Louis, MO

Project Name: 900 S. Central Avenue

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Thu Aug-27-09 08:45 am

Report Date: 15-SEP-09

Project Manager: Debbie Simmons



Lab Id:	342449-001	342449-002	342449-003	342449-004	342449-005	342449-006
Field Id:	GP-9-18	GP-9-37	TB082509	GP-7-37	GP-7-37D	GP-7-41
Depth:						
Matrix:	SOIL	SOIL	WATER	SOIL	SOIL	SOIL
Sampled:	Aug-25-09 12:50	Aug-25-09 12:55	Aug-25-09 00:00	Aug-26-09 10:15	Aug-26-09 10:15	Aug-26-09 10:20
Extracted:	Sep-04-09 11:52	Sep-08-09 18:12	Sep-08-09 18:31	Sep-08-09 18:04	Sep-08-09 18:06	Sep-08-09 18:08
Analyzed:	Sep-04-09 14:40	Sep-08-09 23:13	Sep-08-09 19:25	Sep-08-09 21:44	Sep-08-09 22:06	Sep-08-09 22:29
Units/RL:	mg/kg RL 5.07	mg/kg RL 0.006	ug/L RL 5.00	mg/kg RL 0.341	mg/kg RL 0.318	mg/kg RL 0.657
1,3-Dichlorobenzene	U 5.07	U 0.006	U 5.00	"UJ" U 0.341	"UJ" U 0.318	"UJ" U 0.657
1,4-Dichlorobenzene	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
Dichlorodifluoromethane	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
1,2-Dichloroethane	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
1,1-Dichloroethane	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
trans-1,2-dichloroethene	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
cis-1,2-Dichloroethene	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
1,1-Dichloroethene	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
2,2-Dichloropropane	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
1,3-Dichloropropane	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
1,2-Dichloropropane	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
trans-1,3-dichloropropene	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
1,1-Dichloropropene	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
cis-1,3-Dichloropropene	U 5.07	U 0.006	U 5.00	"UJ" U 0.341	"UJ" U 0.318	"UJ" U 0.657
Ethylbenzene	60.6 5.07	0.241 0.006	U 5.00	5.37 J 0.341	4.75 J 0.318	12.8 J 0.657
Hexachlorobutadiene	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
isopropylbenzene	7.07 5.07	0.059 0.006	U 5.00	0.504 J 0.341	0.442 J 0.318	0.878 J 0.657
Methylene Chloride	0.00 14.7 J 5.07	U 0.024	U 5.00	U 0.341	U 0.318	U 0.657
n-Propylbenzene	19.9 5.07	0.136 0.006	U 5.00	U 0.341	U 0.318	U 0.657
Styrene	U 5.07	U 0.006	U 5.00	1.62 J 0.341	1.39 J 0.318	3.02 J 0.657
1,1,1,2-Tetrachloroethane	U 5.07	U 0.006	U 5.00	"UJ" U 0.341	"UJ" U 0.318	"UJ" U 0.657
1,1,2,2-Tetrachloroethane	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
Tetrachloroethylene	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.657
Toluene	94.2 5.07	0.008 0.006	U 5.00	"UJ" U 0.341	"UJ" U 0.318	"UJ" U 0.657
1,2,4-Trichlorobenzene	U 5.07	U 0.006	U 5.00	3.45 J 0.341	3.05 J 0.318	1.86 J 0.657
				UJ 0.341	UJ 0.318	UJ 0.657

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Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 342449

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-27-09 08:45 am

Report Date: 15-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Dqsh:	Matrix:	Sampled:	342449-001	342449-002	342449-003	342449-004	342449-005	342449-006
	GP-9-18	GP-9-37	GP-9-37	TB082509	GP-7-37	GP-7-37D	GP-7-41				
	SOIL	SOIL	SOIL	WATER	SOIL	SOIL	SOIL				
	Aug-25-09 12:50	Aug-25-09 12:55	Aug-25-09 00:00	Aug-26-09 10:15	Aug-26-09 10:15	Aug-26-09 10:15	Aug-26-09 10:20				
VOAs by SW-846 8260B	Sep-04-09 11:52	Sep-08-09 18:12	Sep-08-09 18:31	Sep-08-09 18:04	Sep-08-09 18:06	Sep-08-09 18:08	Sep-08-09 18:08				
	Sep-04-09 14:40	Sep-08-09 23:13	Sep-08-09 19:25	Sep-08-09 21:44	Sep-08-09 22:06	Sep-08-09 22:29	Sep-08-09 22:29				
Units/RL:	mg/kg	mg/kg	ug/L	mg/kg	mg/kg	mg/kg	mg/kg				
	RL	RL	RL	RL	RL	RL	RL				
1,2,3-Trichlorobenzene	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.657
1,1,2-Trichloroethane	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.657
1,1,1-Trichloroethane	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.657
Trichloroethene	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.657
Trichlorofluoromethane	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.657
1,2,3-Trichloropropane	U 5.07	U 0.006	U 5.00	U 0.341	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.657
1,2,4-Trimethylbenzene	93.4	1.31 D	U 5.00	U 0.341	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.657
1,3,5-Trimethylbenzene	26.0	0.206	U 5.00	U 0.341	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.318	U 0.657
Vinyl Acetate	U 50.7	U 0.061	U 50.0	U 3.41	U 3.18	U 3.18	U 3.18	U 3.18	U 3.18	U 3.18	U 6.57
Vinyl Chloride	U 2.03	U 0.002	U 2.00	U 0.136	U 0.127	U 0.127	U 0.127	U 0.127	U 0.127	U 0.127	U 0.263
o-Xylene	69.2	0.395 D	U 5.00	7.99 J 0.341	7.12 J 0.318	7.12 J 0.318	7.12 J 0.318	7.12 J 0.318	7.12 J 0.318	7.12 J 0.318	16.4 J 0.657
m,p-Xylenes	162	1.04 D	U 10.0	16.1 J 0.682	14.1 J 0.656	14.1 J 0.656	14.1 J 0.656	14.1 J 0.656	14.1 J 0.656	14.1 J 0.656	39.4 J 1.31

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Carlos Casero
 Carlos Casero
 Managing Director, Texas



Certificate of Analysis Summary 342449

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-27-09 08:45 am


Report Date: 15-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	342449-007	342449-008	342449-009	342449-010	342449-011
		GP-7-25		SOIL	Aug-26-09 10:45	GP-8-13	GP-8-35	GP-8-47	GP-8-47D	
		Aug-27-09 17:54		Aug-26-09 13:45	Aug-27-09 17:55	Aug-27-09 17:56	Aug-27-09 17:57	Aug-27-09 17:58		
Percent Moisture	Units/RL:	%	RL	%	RL	%	%	%	%	RL
		1.32	1.00	6.00	1.00	11.03	1.00	16.47	1.00	19.03

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 Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 342449

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-27-09 08:45 am

Report Date: 15-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	342449-007	342449-008	342449-009	342449-010	342449-011
	Field Id:	GP-7-25	GP-8-13	GP-8-35	GP-8-47	GP-8-47D
Depth:						
Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampled:	Aug-26-09 10:45	Aug-26-09 13:45	Aug-26-09 13:50	Aug-26-09 14:10	Aug-26-09 14:10	Aug-26-09 14:10
Extracted:	Sep-04-09 11:54	Sep-04-09 11:56	Sep-04-09 11:58	Sep-08-09 18:48	Sep-04-09 11:44	Sep-04-09 11:44
Analyzed:	Sep-04-09 16:10	Sep-04-09 16:33	Sep-04-09 16:56	Sep-09-09 00:14	Sep-04-09 13:10	Sep-04-09 13:10
Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
1,3-Dichlorobenzene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
1,4-Dichlorobenzene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
Dichlorodifluoromethane	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
1,2-Dichloroethane	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
1,1-Dichloroethane	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
trans-1,2-dichloroethene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
cis-1,2-Dichloroethene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
1,1-Dichloroethene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
2,2-Dichloropropane	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
1,3-Dichloropropane	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
1,2-Dichloropropane	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
trans-1,3-dichloropropene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
1,1-Dichloropropene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
cis-1,3-Dichloropropene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
Ethylbenzene	0.002 J 0.005	0.005 0.005	0.007 0.005	0.002 J 0.006	1.88 J 0.235	1.88 J 0.235
Hexachlorobutadiene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
isopropylbenzene	U 0.005	0.003 J 0.005	U 0.005	U J 0.006	0.228 J 0.235	0.228 J 0.235
Methylene Chloride	U 0.020	U 0.019	U 0.018	U 0.023	U 0.938	U 0.938
n-Propylbenzene	U 0.005	0.006 0.005	0.001 J 0.005	0.002 J 0.006	0.545 J 0.235	0.545 J 0.235
Styrene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
1,1,1,2-Tetrachloroethane	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
1,1,1,2,2-Tetrachloroethane	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
Tetrachloroethylene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235
Toluene	U 0.005	U 0.005	0.001 J 0.005	U J 0.006	0.059 J 0.235	0.059 J 0.235
1,2,4-Trichlorobenzene	U 0.005	U 0.005	U 0.005	U 0.006	U 0.235	U 0.235

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Carlos Casero
Managing Director, Texas



Certificate of Analysis Summary 342449

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington
Project Location: Koxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Aug-27-09 08:45 am
Report Date: 15-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	342449-007	342449-008	342449-009	342449-010	342449-011
						GP-7-25	GP-8-13	GP-8-35	GP-8-47	GP-8-47D
						SOIL	SOIL	SOIL	SOIL	SOIL
						Aug-26-09 10:45	Aug-26-09 13:45	Aug-26-09 13:50	Aug-26-09 14:10	Aug-26-09 14:10
						Sep-04-09 11:54	Sep-04-09 11:56	Sep-04-09 11:58	Sep-08-09 18:48	Sep-04-09 11:44
						Sep-04-09 16:10	Sep-04-09 16:33	Sep-04-09 16:56	Sep-09-09 00:14	Sep-04-09 13:10
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						RL	RL	RL	RL	RL
						U 0.005	U 0.005	U 0.005	U 0.006	U 0.235
1,2,3-Trichlorobenzene						U 0.005	U 0.005	U 0.005	U 0.006	U 0.235
1,1,2-Trichloroethane						U 0.005	U 0.005	U 0.005	U 0.006	U 0.235
1,1,1-Trichloroethane						U 0.005	U 0.005	U 0.005	U 0.006	U 0.235
Trichloroethene						U 0.005	U 0.005	U 0.005	U 0.006	U 0.235
Trichlorofluoromethane						U 0.005	U 0.005	U 0.005	U 0.006	U 0.235
1,2,3-Trichloropropane						U 0.005	U 0.005	U 0.005	U 0.006	U 0.235
1,2,4-Trimethylbenzene						0.004 J 0.005	0.004 J 0.005	0.002 J 0.005	0.006 J 0.006	1.30 J 0.235
1,3,5-Trimethylbenzene						U 0.005	0.001 J 0.005	U 0.005	0.002 J 0.006	0.458 J 0.235
Vinyl Acetate						U 0.050	U 0.046	U 0.046	U 0.056	U 2.35
Vinyl Chloride						U 0.002	U 0.002	U 0.002	U 0.002	U 0.094
o-Xylene						0.002 J 0.005	U 0.005	U 0.005	U J 0.006	0.137 J 0.235
m,p-Xylenes						0.004 J 0.010	0.006 J 0.009	0.003 J 0.009	0.003 J 0.011	1.98 J 0.469

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Carlos Casero
Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : Percent Moisture

Client : URS Corporation-St. Louis

Work Order #: 342449

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GP-8-13	Aug. 26, 2009	Aug. 27, 2009				Aug.27, 2009	45	1	P
GP-7-25	Aug. 26, 2009	Aug. 27, 2009				Aug.27, 2009	45	1	P
GP-9-37	Aug. 25, 2009	Aug. 27, 2009				Aug.27, 2009	45	2	P
GP-8-35	Aug. 26, 2009	Aug. 27, 2009				Aug.27, 2009	45	1	P
GP-7-41	Aug. 26, 2009	Aug. 27, 2009				Aug.27, 2009	45	1	P
GP-7-37D	Aug. 26, 2009	Aug. 27, 2009				Aug.27, 2009	45	1	P
GP-8-47	Aug. 26, 2009	Aug. 27, 2009				Aug.27, 2009	45	1	P
GP-8-47D	Aug. 26, 2009	Aug. 27, 2009				Aug.27, 2009	45	1	P
GP-7-37	Aug. 26, 2009	Aug. 27, 2009				Aug.27, 2009	45	1	P
GP-9-18	Aug. 25, 2009	Aug. 27, 2009				Aug.27, 2009	45	2	P



**XENCO
CHRONOLOGY OF HOLDING TIMES**

Analytical Method : VOAs by SW-846 8260B

Client : URS Corporation-St. Louis

Work Order #: 342449

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GP-8-13	Aug. 26, 2009	Aug. 27, 2009	Sep. 4, 2009	14	9	Sep.4, 2009	14	9	P
GP-7-37D	Aug. 26, 2009	Aug. 27, 2009	Sep. 8, 2009	14	13	Sep.8, 2009	14	13	P
TB082509	Aug. 25, 2009	Aug. 27, 2009				Sep.8, 2009	14	14	P
GP-8-35	Aug. 26, 2009	Aug. 27, 2009	Sep. 4, 2009	14	9	Sep.4, 2009	14	9	P
GP-9-37	Aug. 25, 2009	Aug. 27, 2009	Sep. 8, 2009	14	14	Sep.8, 2009	14	14	P
GP-7-37	Aug. 26, 2009	Aug. 27, 2009	Sep. 8, 2009	14	13	Sep.8, 2009	14	13	P
GP-9-18	Aug. 25, 2009	Aug. 27, 2009	Sep. 4, 2009	14	10	Sep.4, 2009	14	10	P
GP-7-25	Aug. 26, 2009	Aug. 27, 2009	Sep. 4, 2009	14	9	Sep.4, 2009	14	9	P
GP-7-41	Aug. 26, 2009	Aug. 27, 2009	Sep. 8, 2009	14	13	Sep.8, 2009	14	13	P
GP-8-47	Aug. 26, 2009	Aug. 27, 2009	Sep. 8, 2009	14	13	Sep.9, 2009	14	14	P
GP-8-47D	Aug. 26, 2009	Aug. 27, 2009	Sep. 4, 2009	14	9	Sep.4, 2009	14	9	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 342449,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771536

Sample: 537319-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 09/04/09 09:51		SURROGATE RECOVERY STUDY		
VOAs by SW-846 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0507	0.0500	101	58-152	
Dibromofluoromethane		0.0520	0.0500	104	74-126	
1,2-Dichloroethane-D4		0.0533	0.0500	107	80-120	
Toluene-D8		0.0493	0.0500	99	73-132	

Lab Batch #: 771536

Sample: 537319-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 09/04/09 10:45		SURROGATE RECOVERY STUDY		
VOAs by SW-846 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0487	0.0500	97	58-152	
Dibromofluoromethane		0.0505	0.0500	101	74-126	
1,2-Dichloroethane-D4		0.0517	0.0500	103	80-120	
Toluene-D8		0.0493	0.0500	99	73-132	

Lab Batch #: 771536

Sample: 342449-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 09/04/09 13:10		SURROGATE RECOVERY STUDY		
VOAs by SW-846 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0491	0.0500	98	58-152	
Dibromofluoromethane		0.0465	0.0500	93	74-126	
1,2-Dichloroethane-D4		0.0486	0.0500	97	80-120	
Toluene-D8		0.0515	0.0500	103	73-132	

Lab Batch #: 771536

Sample: 342449-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 09/04/09 14:40		SURROGATE RECOVERY STUDY		
VOAs by SW-846 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0494	0.0500	99	58-152	
Dibromofluoromethane		0.0468	0.0500	94	74-126	
1,2-Dichloroethane-D4		0.0514	0.0500	103	80-120	
Toluene-D8		0.0508	0.0500	102	73-132	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 342449,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771536

Sample: 342441-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/04/09 15:25

SURROGATE RECOVERY STUDY					
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0648	0.0500	130	58-152	
Dibromofluoromethane	0.0510	0.0500	102	74-126	
1,2-Dichloroethane-D4	0.0507	0.0500	101	80-120	
Toluene-D8	0.0550	0.0500	110	73-132	

Lab Batch #: 771536

Sample: 342449-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/04/09 16:10

SURROGATE RECOVERY STUDY					
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0495	0.0500	99	58-152	
Dibromofluoromethane	0.0509	0.0500	102	74-126	
1,2-Dichloroethane-D4	0.0542	0.0500	108	80-120	
Toluene-D8	0.0481	0.0500	96	73-132	

Lab Batch #: 771536

Sample: 342449-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/04/09 16:33

SURROGATE RECOVERY STUDY					
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0498	0.0500	100	58-152	
Dibromofluoromethane	0.0524	0.0500	105	74-126	
1,2-Dichloroethane-D4	0.0550	0.0500	110	80-120	
Toluene-D8	0.0487	0.0500	97	73-132	

Lab Batch #: 771536

Sample: 342449-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/04/09 16:56

SURROGATE RECOVERY STUDY					
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0478	0.0500	96	58-152	
Dibromofluoromethane	0.0539	0.0500	108	74-126	
1,2-Dichloroethane-D4	0.0579	0.0500	116	80-120	
Toluene-D8	0.0470	0.0500	94	73-132	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 342449,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771858

Sample: 537479-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 09/08/09 18:11		SURROGATE RECOVERY STUDY		
VOAs by SW-846 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0524	0.0500	105	58-152	
Dibromofluoromethane		0.0503	0.0500	101	74-126	
1,2-Dichloroethane-D4		0.0515	0.0500	103	80-120	
Toluene-D8		0.0512	0.0500	102	73-132	

Lab Batch #: 771858

Sample: 537479-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 09/08/09 20:13		SURROGATE RECOVERY STUDY		
VOAs by SW-846 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0485	0.0500	97	58-152	
Dibromofluoromethane		0.0458	0.0500	92	74-126	
1,2-Dichloroethane-D4		0.0453	0.0500	91	80-120	
Toluene-D8		0.0489	0.0500	98	73-132	

Lab Batch #: 771858

Sample: 342449-002 / DL

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 09/08/09 20:59		SURROGATE RECOVERY STUDY		
VOAs by SW-846 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0493	0.0500	99	58-152	
Dibromofluoromethane		0.0430	0.0500	86	74-126	
1,2-Dichloroethane-D4		0.0445	0.0500	89	80-120	
Toluene-D8		0.0509	0.0500	102	73-132	

Lab Batch #: 771858

Sample: 342449-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 09/08/09 21:44		SURROGATE RECOVERY STUDY		
VOAs by SW-846 8260B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
4-Bromofluorobenzene		0.0479	0.0500	96	58-152	
Dibromofluoromethane		0.0437	0.0500	87	74-126	
1,2-Dichloroethane-D4		0.0435	0.0500	87	80-120	
Toluene-D8		0.0503	0.0500	101	73-132	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 342449,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771858

Sample: 342449-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/08/09 22:06

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0474	0.0500	95	58-152	
Dibromofluoromethane	0.0442	0.0500	88	74-126	
1,2-Dichloroethane-D4	0.0448	0.0500	90	80-120	
Toluene-D8	0.0510	0.0500	102	73-132	

Lab Batch #: 771858

Sample: 342449-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/08/09 22:29

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0465	0.0500	93	58-152	
Dibromofluoromethane	0.0438	0.0500	88	74-126	
1,2-Dichloroethane-D4	0.0453	0.0500	91	80-120	
Toluene-D8	0.0499	0.0500	100	73-132	

Lab Batch #: 771858

Sample: 342449-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/08/09 23:13

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0561	0.0500	112	58-152	
Dibromofluoromethane	0.0445	0.0500	89	74-126	
1,2-Dichloroethane-D4	0.0431	0.0500	86	80-120	
Toluene-D8	0.0496	0.0500	99	73-132	

Lab Batch #: 771858

Sample: 342449-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/08/09 23:36

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0554	0.0500	111	58-152	
Dibromofluoromethane	0.0463	0.0500	93	74-126	
1,2-Dichloroethane-D4	0.0432	0.0500	86	80-120	
Toluene-D8	0.0503	0.0500	101	73-132	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 342449,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771858

Sample: 342449-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/08/09 23:58

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0561	0.0500	112	58-152	
Dibromofluoromethane	0.0475	0.0500	95	74-126	
1,2-Dichloroethane-D4	0.0437	0.0500	87	80-120	
Toluene-D8	0.0500	0.0500	100	73-132	

Lab Batch #: 771863

Sample: 537489-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/08/09 17:31

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0493	0.0500	99	74-124	
Dibromofluoromethane	0.0530	0.0500	106	75-131	
1,2-Dichloroethane-D4	0.0499	0.0500	100	63-144	
Toluene-D8	0.0509	0.0500	102	80-117	

Lab Batch #: 771863

Sample: 537489-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/08/09 18:58

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0514	0.0500	103	74-124	
Dibromofluoromethane	0.0546	0.0500	109	75-131	
1,2-Dichloroethane-D4	0.0509	0.0500	102	63-144	
Toluene-D8	0.0491	0.0500	98	80-117	

Lab Batch #: 771863

Sample: 342449-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/08/09 19:25

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0511	0.0500	102	74-124	
Dibromofluoromethane	0.0546	0.0500	109	75-131	
1,2-Dichloroethane-D4	0.0503	0.0500	101	63-144	
Toluene-D8	0.0490	0.0500	98	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 342449,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771863

Sample: 537489-1-BSD / BSD

Batch: 1 Matrix: Water

	SURROGATE RECOVERY STUDY				
Units: mg/L	Date Analyzed: 09/09/09 01:32				
VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0507	0.0500	101	74-124	
Dibromofluoromethane	0.0508	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0488	0.0500	98	63-144	
Toluene-D8	0.0503	0.0500	101	80-117	

Lab Batch #: 771868

Sample: 537494-1-BKS / BKS

Batch: 1 Matrix: Solid

	SURROGATE RECOVERY STUDY				
Units: mg/kg	Date Analyzed: 09/08/09 17:31				
VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0493	0.0500	99	58-152	
Dibromofluoromethane	0.0530	0.0500	106	74-126	
1,2-Dichloroethane-D4	0.0499	0.0500	100	80-120	
Toluene-D8	0.0509	0.0500	102	73-132	

Lab Batch #: 771868

Sample: 537494-1-BLK / BLK

Batch: 1 Matrix: Solid

	SURROGATE RECOVERY STUDY				
Units: mg/kg	Date Analyzed: 09/08/09 18:58				
VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0514	0.0500	103	58-152	
Dibromofluoromethane	0.0546	0.0500	109	74-126	
1,2-Dichloroethane-D4	0.0509	0.0500	102	80-120	
Toluene-D8	0.0491	0.0500	98	73-132	

Lab Batch #: 771868

Sample: 342441-001 S / MS

Batch: 1 Matrix: Soil

	SURROGATE RECOVERY STUDY				
Units: mg/kg	Date Analyzed: 09/08/09 21:10				
VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0516	0.0500	103	58-152	
Dibromofluoromethane	0.0528	0.0500	106	74-126	
1,2-Dichloroethane-D4	0.0524	0.0500	105	80-120	
Toluene-D8	0.0494	0.0500	99	73-132	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 342449,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771868

Sample: 342441-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/08/09 21:36

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0501	0.0500	100	58-152	
Dibromofluoromethane	0.0525	0.0500	105	74-126	
1,2-Dichloroethane-D4	0.0517	0.0500	103	80-120	
Toluene-D8	0.0495	0.0500	99	73-132	

Lab Batch #: 771868

Sample: 342449-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/09/09 00:14

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0494	0.0500	99	58-152	
Dibromofluoromethane	0.0519	0.0500	104	74-126	
1,2-Dichloroethane-D4	0.0508	0.0500	102	80-120	
Toluene-D8	0.0507	0.0500	101	73-132	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 342449

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771536

Sample: 537319-1-BKS

Matrix: Solid

Date Analyzed: 09/04/2009

Date Prepared: 09/04/2009

Analyst: MCH

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<0.020	0.500	0.555	111	50-150	
Benzene	<0.001	0.050	0.046	92	66-142	
Bromobenzene	<0.001	0.050	0.046	92	75-125	
Bromochloromethane	<0.001	0.050	0.052	104	73-125	
Bromodichloromethane	<0.001	0.050	0.052	104	75-125	
Bromoform	<0.001	0.050	0.049	98	75-125	
Bromomethane	<0.001	0.050	0.043	86	65-135	
2-Butanone	<0.010	0.500	0.585	117	75-125	
MTBE	<0.001	0.050	0.053	106	65-135	
tert-Butylbenzene	<0.001	0.050	0.047	94	75-125	
Sec-Butylbenzene	<0.001	0.050	0.047	94	75-125	
n-Butylbenzene	<0.001	0.050	0.047	94	75-125	
Carbon Disulfide	<0.010	0.500	0.451	90	65-135	
Carbon Tetrachloride	<0.001	0.050	0.051	102	62-125	
Chlorobenzene	<0.001	0.050	0.047	94	60-133	
Chloroethane	<0.002	0.050	0.045	90	65-135	
Chloroform	<0.001	0.050	0.048	96	74-125	
Chloromethane	<0.002	0.050	0.047	94	65-135	
2-Chlorotoluene	<0.001	0.050	0.046	92	73-125	
4-Chlorotoluene	<0.001	0.050	0.046	92	74-125	
p-Cymene (p-Isopropyltoluene)	<0.001	0.050	0.048	96	75-125	
1,2-Dibromo-3-Chloropropane	<0.001	0.050	0.050	100	59-125	
Dibromochloromethane	<0.001	0.050	0.048	96	73-125	
Dibromomethane	<0.001	0.050	0.050	100	69-127	
1,2-Dichlorobenzene	<0.001	0.050	0.046	92	75-125	
1,3-Dichlorobenzene	<0.001	0.050	0.047	94	75-125	
1,4-Dichlorobenzene	<0.001	0.050	0.047	94	75-125	
Dichlorodifluoromethane	<0.001	0.050	0.051	102	65-135	
1,2-Dichloroethane	<0.001	0.050	0.050	100	68-127	
1,1-Dichloroethane	<0.001	0.050	0.049	98	72-125	
trans-1,2-dichloroethene	<0.001	0.050	0.046	92	75-125	
cis-1,2-Dichloroethene	<0.001	0.050	0.047	94	75-125	
1,1-Dichloroethene	<0.001	0.050	0.049	98	59-172	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 342449

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771536

Sample: 537319-1-BKS

Matrix: Solid

Date Analyzed: 09/04/2009

Date Prepared: 09/04/2009

Analyst: MCH

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
2,2-Dichloropropane	<0.001	0.050	0.048	96	75-125	
1,3-Dichloropropane	<0.001	0.050	0.050	100	75-125	
1,2-Dichloropropane	<0.001	0.050	0.050	100	74-125	
trans-1,3-dichloropropene	<0.001	0.050	0.056	112	66-125	
1,1-Dichloropropene	<0.001	0.050	0.048	96	75-125	
cis-1,3-Dichloropropene	<0.001	0.050	0.055	110	74-125	
Ethylbenzene	<0.001	0.050	0.047	94	75-125	
Hexachlorobutadiene	<0.001	0.050	0.045	90	75-125	
isopropylbenzene	<0.001	0.050	0.049	98	75-125	
Methylene Chloride	<0.004	0.050	0.047	94	75-125	
n-Propylbenzene	<0.001	0.050	0.048	96	75-125	
Styrene	<0.001	0.050	0.049	98	75-125	
1,1,1,2-Tetrachloroethane	<0.001	0.050	0.053	106	72-125	
1,1,2,2-Tetrachloroethane	<0.001	0.050	0.052	104	74-125	
Tetrachloroethylene	<0.001	0.050	0.046	92	71-125	
Toluene	<0.001	0.050	0.046	92	59-139	
1,2,4-Trichlorobenzene	<0.001	0.050	0.044	88	75-135	
1,2,3-Trichlorobenzene	<0.001	0.050	0.046	92	75-137	
1,1,2-Trichloroethane	<0.001	0.050	0.051	102	75-127	
1,1,1-Trichloroethane	<0.001	0.050	0.049	98	75-125	
Trichloroethene	<0.001	0.050	0.049	98	62-137	
Trichlorofluoromethane	<0.001	0.050	0.050	100	67-125	
1,2,3-Trichloropropane	<0.001	0.050	0.054	108	75-125	
1,2,4-Trimethylbenzene	<0.001	0.050	0.046	92	75-125	
1,3,5-Trimethylbenzene	<0.001	0.050	0.047	94	70-130	
Vinyl Acetate	<0.010	0.500	0.501	100	75-125	
Vinyl Chloride	<0.001	0.050	0.048	96	65-135	
o-Xylene	<0.001	0.050	0.047	94	75-125	
m,p-Xylenes	<0.002	0.100	0.094	94	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 342449

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771858

Sample: 537479-1-BKS

Matrix: Solid

Date Analyzed: 09/08/2009

Date Prepared: 09/08/2009

Analyst: MCH

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<0.020	0.500	0.493	99	50-150	
Benzene	<0.001	0.050	0.051	102	66-142	
Bromobenzene	<0.001	0.050	0.051	102	75-125	
Bromochloromethane	<0.001	0.050	0.053	106	73-125	
Bromodichloromethane	<0.001	0.050	0.054	108	75-125	
Bromoform	<0.001	0.050	0.047	94	75-125	
Bromomethane	<0.001	0.050	0.047	94	65-135	
2-Butanone	<0.010	0.500	0.531	106	75-125	
MTBE	<0.001	0.050	0.053	106	65-135	
tert-Butylbenzene	<0.001	0.050	0.053	106	75-125	
Sec-Butylbenzene	<0.001	0.050	0.052	104	75-125	
n-Butylbenzene	<0.001	0.050	0.053	106	75-125	
Carbon Disulfide	<0.010	0.500	0.509	102	65-135	
Carbon Tetrachloride	<0.001	0.050	0.051	102	62-125	
Chlorobenzene	<0.001	0.050	0.052	104	60-133	
Chloroethane	<0.002	0.050	0.050	100	65-135	
Chloroform	<0.001	0.050	0.051	102	74-125	
Chloromethane	<0.002	0.050	0.048	96	65-135	
2-Chlorotoluene	<0.001	0.050	0.053	106	73-125	
4-Chlorotoluene	<0.001	0.050	0.052	104	74-125	
p-Cymene (p-Isopropyltoluene)	<0.001	0.050	0.053	106	75-125	
1,2-Dibromo-3-Chloropropane	<0.001	0.050	0.051	102	59-125	
Dibromochloromethane	<0.001	0.050	0.048	96	73-125	
Dibromomethane	<0.001	0.050	0.052	104	69-127	
1,2-Dichlorobenzene	<0.001	0.050	0.052	104	75-125	
1,3-Dichlorobenzene	<0.001	0.050	0.053	106	75-125	
1,4-Dichlorobenzene	<0.001	0.050	0.052	104	75-125	
Dichlorodifluoromethane	<0.001	0.050	0.049	98	65-135	
1,2-Dichloroethane	<0.001	0.050	0.052	104	68-127	
1,1-Dichloroethane	<0.001	0.050	0.052	104	72-125	
trans-1,2-dichloroethene	<0.001	0.050	0.052	104	75-125	
cis-1,2-Dichloroethene	<0.001	0.050	0.051	102	75-125	
1,1-Dichloroethene	<0.001	0.050	0.051	102	59-172	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 342449

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771858

Sample: 537479-1-BKS

Matrix: Solid

Date Analyzed: 09/08/2009

Date Prepared: 09/08/2009

Analyst: MCH

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
2,2-Dichloropropane	<0.001	0.050	0.048	96	75-125	
1,3-Dichloropropane	<0.001	0.050	0.054	108	75-125	
1,2-Dichloropropane	<0.001	0.050	0.053	106	74-125	
trans-1,3-dichloropropene	<0.001	0.050	0.048	96	66-125	
1,1-Dichloropropene	<0.001	0.050	0.051	102	75-125	
cis-1,3-Dichloropropene	<0.001	0.050	0.054	108	74-125	
Ethylbenzene	<0.001	0.050	0.051	102	75-125	
Hexachlorobutadiene	<0.001	0.050	0.052	104	75-125	
isopropylbenzene	<0.001	0.050	0.053	106	75-125	
Methylene Chloride	<0.004	0.050	0.053	106	75-125	
n-Propylbenzene	<0.001	0.050	0.052	104	75-125	
Styrene	<0.001	0.050	0.054	108	75-125	
1,1,1,2-Tetrachloroethane	<0.001	0.050	0.054	108	72-125	
1,1,2,2-Tetrachloroethane	<0.001	0.050	0.057	114	74-125	
Tetrachloroethylene	<0.001	0.050	0.051	102	71-125	
Toluene	<0.001	0.050	0.051	102	59-139	
1,2,4-Trichlorobenzene	<0.001	0.050	0.050	100	75-135	
1,2,3-Trichlorobenzene	<0.001	0.050	0.050	100	75-137	
1,1,2-Trichloroethane	<0.001	0.050	0.054	108	75-127	
1,1,1-Trichloroethane	<0.001	0.050	0.051	102	75-125	
Trichloroethene	<0.001	0.050	0.053	106	62-137	
Trichlorofluoromethane	<0.001	0.050	0.051	102	67-125	
1,2,3-Trichloropropane	<0.001	0.050	0.054	108	75-125	
1,2,4-Trimethylbenzene	<0.001	0.050	0.053	106	75-125	
1,3,5-Trimethylbenzene	<0.001	0.050	0.054	108	70-130	
Vinyl Acetate	<0.010	0.500	0.503	101	75-125	
Vinyl Chloride	<0.001	0.050	0.051	102	65-135	
o-Xylene	<0.001	0.050	0.051	102	75-125	
m,p-Xylenes	<0.002	0.100	0.104	104	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 342449

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771868

Sample: 537494-1-BKS

Matrix: Solid

Date Analyzed: 09/08/2009

Date Prepared: 09/08/2009

Analyst: CRW

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<0.020	0.500	0.650	130	50-150	
Benzene	<0.001	0.050	0.051	102	66-142	
Bromobenzene	<0.001	0.050	0.048	96	75-125	
Bromochloromethane	<0.001	0.050	0.052	104	73-125	
Bromodichloromethane	<0.001	0.050	0.053	106	75-125	
Bromoform	<0.001	0.050	0.053	106	75-125	
Bromomethane	<0.001	0.050	0.062	124	65-135	
2-Butanone	<0.010	0.500	0.611	122	75-125	
MTBE	<0.001	0.050	0.055	110	65-135	
tert-Butylbenzene	<0.001	0.050	0.051	102	75-125	
Sec-Butylbenzene	<0.001	0.050	0.052	104	75-125	
n-Butylbenzene	<0.001	0.050	0.052	104	75-125	
Carbon Disulfide	<0.010	0.500	0.498	100	65-135	
Carbon Tetrachloride	<0.001	0.050	0.054	108	62-125	
Chlorobenzene	<0.001	0.050	0.048	96	60-133	
Chloroethane	<0.002	0.050	0.056	112	65-135	
Chloroform	<0.001	0.050	0.052	104	74-125	
Chloromethane	<0.002	0.050	0.055	110	65-135	
2-Chlorotoluene	<0.001	0.050	0.050	100	73-125	
4-Chlorotoluene	<0.001	0.050	0.050	100	74-125	
p-Cymene (p-Isopropyltoluene)	<0.001	0.050	0.053	106	75-125	
1,2-Dibromo-3-Chloropropane	<0.001	0.050	0.049	98	59-125	
Dibromochloromethane	<0.001	0.050	0.051	102	73-125	
Dibromomethane	<0.001	0.050	0.052	104	69-127	
1,2-Dichlorobenzene	<0.001	0.050	0.048	96	75-125	
1,3-Dichlorobenzene	<0.001	0.050	0.048	96	75-125	
1,4-Dichlorobenzene	<0.001	0.050	0.047	94	75-125	
Dichlorodifluoromethane	<0.001	0.050	0.053	106	65-135	
1,2-Dichloroethane	<0.001	0.050	0.052	104	68-127	
1,1-Dichloroethane	<0.001	0.050	0.052	104	72-125	
trans-1,2-dichloroethene	<0.001	0.050	0.053	106	75-125	
cis-1,2-Dichloroethene	<0.001	0.050	0.053	106	75-125	
1,1-Dichloroethene	<0.001	0.050	0.052	104	59-172	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 342449

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771868

Sample: 537494-1-BKS

Matrix: Solid

Date Analyzed: 09/08/2009

Date Prepared: 09/08/2009

Analyst: CRW

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
2,2-Dichloropropane	<0.001	0.050	0.054	108	75-125	
1,3-Dichloropropane	<0.001	0.050	0.049	98	75-125	
1,2-Dichloropropane	<0.001	0.050	0.051	102	74-125	
trans-1,3-dichloropropene	<0.001	0.050	0.052	104	66-125	
1,1-Dichloropropene	<0.001	0.050	0.052	104	75-125	
cis-1,3-Dichloropropene	<0.001	0.050	0.052	104	74-125	
Ethylbenzene	<0.001	0.050	0.051	102	75-125	
Hexachlorobutadiene	<0.001	0.050	0.048	96	75-125	
isopropylbenzene	<0.001	0.050	0.052	104	75-125	
Methylene Chloride	<0.004	0.050	0.057	114	75-125	
n-Propylbenzene	<0.001	0.050	0.051	102	75-125	
Styrene	<0.001	0.050	0.053	106	75-125	
1,1,1,2-Tetrachloroethane	<0.001	0.050	0.052	104	72-125	
1,1,2,2-Tetrachloroethane	<0.001	0.050	0.048	96	74-125	
Tetrachloroethylene	<0.001	0.050	0.048	96	71-125	
Toluene	<0.001	0.050	0.049	98	59-139	
1,2,4-Trichlorobenzene	<0.001	0.050	0.051	102	75-135	
1,2,3-Trichlorobenzene	<0.001	0.050	0.051	102	75-137	
1,1,2-Trichloroethane	<0.001	0.050	0.051	102	75-127	
1,1,1-Trichloroethane	<0.001	0.050	0.053	106	75-125	
Trichloroethene	<0.001	0.050	0.052	104	62-137	
Trichlorofluoromethane	<0.001	0.050	0.056	112	67-125	
1,2,3-Trichloropropane	<0.001	0.050	0.049	98	75-125	
1,2,4-Trimethylbenzene	<0.001	0.050	0.052	104	75-125	
1,3,5-Trimethylbenzene	<0.001	0.050	0.053	106	70-130	
Vinyl Acetate	<0.010	0.500	0.481	96	75-125	
Vinyl Chloride	<0.001	0.050	0.056	112	65-135	
o-Xylene	<0.001	0.050	0.052	104	75-125	
m,p-Xylenes	<0.002	0.100	0.102	102	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 342449

Analyst: CRW

Lab Batch ID: 771863

Sample: 537489-1-BKS

Date Prepared: 09/08/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 09/08/2009

Matrix: Water

Units: ug/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
VOAs by SW-846 8260B											
Acetone	<20.0	500	650	130	500	439	88	39	60-140	21	F
Benzene	<1.00	50.0	51.4	103	50	46.9	94	9	66-142	21	
Bromobenzene	<1.00	50.0	47.5	95	50	44.8	90	6	75-125	20	
Bromochloromethane	<1.00	50.0	51.9	104	50	48.4	97	7	73-125	20	
Bromodichloromethane	<1.00	50.0	52.5	105	50	46.3	93	13	75-125	20	
Bromoform	<1.00	50.0	52.8	106	50	47.3	95	11	75-125	20	
Bromomethane	<1.00	50.0	62.2	124	50	57.2	114	8	70-130	20	
2-Butanone	<10.0	500	611	122	500	504	101	19	60-140	20	
MTBE	<1.00	50.0	54.6	109	50	48.0	96	13	65-135	20	
n-Butylbenzene	<1.00	50.0	52.3	105	50	44.8	90	15	75-125	20	
Sec-Butylbenzene	<1.00	50.0	51.6	103	50	45.3	91	13	75-125	20	
tert-Butylbenzene	<1.00	50.0	50.5	101	50	44.0	88	14	75-125	20	
Carbon Disulfide	<10.0	500	498	100	500	438	88	13	60-140	20	
Carbon Tetrachloride	<1.00	50.0	53.8	108	50	44.5	89	19	62-125	20	
Chlorobenzene	<1.00	50.0	47.8	96	50	44.0	88	8	60-133	21	
Chloroethane	<2.00	50.0	56.0	112	50	45.9	92	20	70-130	20	
Chloroform	<1.00	50.0	51.8	104	50	45.5	91	13	74-125	20	
Chloromethane	<2.00	50.0	54.6	109	50	46.6	93	16	70-130	20	
2-Chlorotoluene	<1.00	50.0	49.8	100	50	45.6	91	9	73-125	20	
4-Chlorotoluene	<1.00	50.0	50.4	101	50	45.6	91	10	74-125	20	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 342449

Analyst: CRW

Lab Batch ID: 771863

Sample: 537489-1-BKS

Date Prepared: 09/08/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 09/08/2009

Matrix: Water

Units: ug/L

VOAs by SW-846 8260B		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
	p-Cymene (p-Isopropyltoluene)	<1.00	50.0	52.8	106	50	45.6	91	15	75-125	20	
	Dibromochloromethane	<1.00	50.0	51.1	102	50	45.5	91	12	73-125	20	
	1,2-Dibromo-3-Chloropropane	<1.00	50.0	49.4	99	50	43.9	88	12	59-125	28	
	Dibromomethane	<1.00	50.0	51.8	104	50	46.1	92	12	69-127	23	
	1,2-Dichlorobenzene	<1.00	50.0	48.4	97	50	43.4	87	11	75-125	20	
	1,3-Dichlorobenzene	<1.00	50.0	48.3	97	50	44.1	88	9	75-125	20	
	1,4-Dichlorobenzene	<1.00	50.0	47.2	94	50	43.0	86	9	75-125	20	
	Dichlorodifluoromethane	<1.00	50.0	53.4	107	50	42.4	85	23	70-130	23	
	1,1-Dichloroethane	<1.00	50.0	51.5	103	50	45.8	92	12	72-125	20	
	1,2-Dichloroethane	<1.00	50.0	51.8	104	50	44.9	90	14	68-127	20	
	1,1-Dichloroethene	<1.00	50.0	51.9	104	50	45.2	90	14	59-172	22	
	cis-1,2-Dichloroethene	<1.00	50.0	52.5	105	50	48.4	97	8	75-125	20	
	trans-1,2-dichloroethene	<1.00	50.0	53.0	106	50	47.6	95	11	75-125	20	
	1,2-Dichloropropane	<1.00	50.0	51.0	102	50	47.1	94	8	74-125	20	
	1,3-Dichloropropane	<1.00	50.0	48.8	98	50	44.6	89	9	75-125	20	
	2,2-Dichloropropane	<1.00	50.0	54.0	108	50	44.2	88	20	75-125	20	
	1,1-Dichloropropene	<1.00	50.0	52.1	104	50	45.8	92	13	75-125	20	
	cis-1,3-Dichloropropene	<1.00	50.0	52.2	104	50	46.2	92	12	74-125	20	
	trans-1,3-dichloropropene	<1.00	50.0	52.2	104	50	46.2	92	12	66-125	20	
	Ethylbenzene	<1.00	50.0	51.1	102	50	46.2	92	10	75-125	20	

Relative Percent Difference RPD = $200 * (C-F) / (C+F)$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 342449

Analyst: CRW

Lab Batch ID: 771863

Sample: 537489-1-BKS

Date Prepared: 09/08/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 09/08/2009

Matrix: Water

Units: ug/L

VOAs by SW-846 8260B

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexachlorobutadiene	<1.00	50.0	48.0	96	50	39.2	78	20	75-125	20	F
isopropylbenzene	<1.00	50.0	52.1	104	50	47.4	95	9	75-125	20	
Methylene Chloride	<1.00	50.0	57.4	115	50	45.5	91	23	75-125	35	
n-Propylbenzene	<1.00	50.0	51.1	102	50	46.7	93	9	75-125	20	
Styrene	<1.00	50.0	52.6	105	50	48.4	97	8	75-125	51	
1,1,1,2-Tetrachloroethane	<1.00	50.0	51.6	103	50	46.4	93	11	72-125	20	
1,1,1,2,2-Tetrachloroethane	<1.00	50.0	47.9	96	50	45.2	90	6	74-125	31	
Tetrachloroethylene	<1.00	50.0	48.0	96	50	42.8	86	11	71-125	20	
Toluene	<1.00	50.0	48.7	97	50	44.1	88	10	59-139	21	
1,2,3-Trichlorobenzene	<1.00	50.0	51.2	102	50	44.2	88	15	75-137	20	
1,2,4-Trichlorobenzene	<1.00	50.0	50.5	101	50	42.7	85	17	75-135	20	
1,1,1-Trichloroethane	<1.00	50.0	53.1	106	50	44.4	89	18	75-125	20	
1,1,2-Trichloroethane	<1.00	50.0	50.6	101	50	45.7	91	10	75-127	20	
Trichloroethene	<1.00	50.0	51.9	104	50	46.9	94	10	62-137	24	
Trichlorofluoromethane	<1.00	50.0	55.7	111	50	42.7	85	26	67-125	20	F
1,2,3-Trichloropropane	<1.00	50.0	49.1	98	50	46.4	93	6	75-125	20	
1,2,4-Trimethylbenzene	<1.00	50.0	52.3	105	50	46.9	94	11	75-125	20	
1,3,5-Trimethylbenzene	<1.00	50.0	52.5	105	50	46.6	93	12	70-125	20	
o-Xylene	<1.00	50.0	51.8	104	50	48.4	97	7	75-125	20	
m,p-Xylenes	<2.00	100	102	102	100	93.0	93	9	75-125	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 342449

Project ID: Route 111 & Rand Ave Vicinity/21561979

Analyst: CRW

Date Prepared: 09/08/2009

Date Analyzed: 09/08/2009

Lab Batch ID: 771863

Sample: 537489-1-BKS

Batch #: 1

Matrix: Water

Units: ug/L

VOAs by SW-846 8260B		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Vinyl Acetate		<10.0	500	481	96	500	357	71	30	60-140	20	F
Vinyl Chloride		<0.400	50.0	56.1	112	50	46.8	94	18	75-125	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$
 Blank Spike Recovery [D] = $100 * (C)/(B)$
 Blank Spike Duplicate Recovery [G] = $100 * (F)/(E)$
 All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 342449

Lab Batch #: 771536

Project ID: Route 111 & Rand Ave Vicinity/21561!

Date Analyzed: 09/04/2009

Date Prepared: 09/04/2009

Analyst: MCH

QC- Sample ID: 342441-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Acetone	<0.154	0.573	0.391	68	50-150	
Benzene	<0.002	0.057	0.042	74	66-142	
Bromobenzene	<0.008	0.057	0.044	77	75-125	
Bromochloromethane	<0.008	0.057	0.051	89	73-125	
Bromodichloromethane	<0.002	0.057	0.045	79	75-125	
Bromoform	<0.002	0.057	0.031	54	75-125	X
Bromomethane	<0.002	0.057	0.028	49	65-135	X
2-Butanone	<0.077	0.573	0.393	69	75-125	X
MTBE	<0.008	0.057	0.064	112	65-135	
tert-Butylbenzene	<0.008	0.057	0.051	89	75-125	
Sec-Butylbenzene	<0.008	0.057	0.044	77	75-125	
n-Butylbenzene	<0.008	0.057	0.029	51	75-125	X
Carbon Disulfide	<0.077	0.573	0.348	61	65-135	X
Carbon Tetrachloride	<0.002	0.057	0.046	81	62-125	
Chlorobenzene	<0.002	0.057	0.038	67	60-133	
Chloroethane	<0.002	0.057	0.034	60	65-135	X
Chloroform	<0.002	0.057	0.047	82	74-125	
Chloromethane	<0.002	0.057	0.039	68	65-135	
2-Chlorotoluene	<0.008	0.057	0.050	88	73-125	
4-Chlorotoluene	<0.008	0.057	0.041	72	74-125	X
p-Cymene (p-Isopropyltoluene)	<0.008	0.057	0.038	67	75-125	X
1,2-Dibromo-3-Chloropropane	<0.008	0.057	0.036	63	59-125	
Dibromochloromethane	<0.002	0.057	0.035	61	73-125	X
Dibromomethane	<0.008	0.057	0.038	67	69-127	X
1,2-Dichlorobenzene	<0.002	0.057	0.033	58	75-125	X
1,3-Dichlorobenzene	<0.002	0.057	0.037	65	75-125	X
1,4-Dichlorobenzene	<0.002	0.057	0.031	54	75-125	X
Dichlorodifluoromethane	<0.008	0.057	0.046	81	65-135	
1,2-Dichloroethane	<0.002	0.057	0.043	75	68-127	
1,1-Dichloroethane	<0.002	0.057	0.050	88	72-125	
trans-1,2-dichloroethene	<0.002	0.057	0.037	65	75-125	X
cis-1,2-Dichloroethene	<0.008	0.057	0.044	77	75-125	
1,1-Dichloroethene	<0.002	0.057	0.048	84	59-172	
2,2-Dichloropropane	<0.008	0.057	0.048	84	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference [E] = 200*(C-A)/(C+B)

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 342449

Lab Batch #: 771536

Project ID: Route 111 & Rand Ave Vicinity/21561'

Date Analyzed: 09/04/2009

Date Prepared: 09/04/2009

Analyst: MCH

QC- Sample ID: 342441-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes		Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
1,3-Dichloropropane	<0.008	0.057	0.049	86	75-125	
1,2-Dichloropropane	<0.002	0.057	0.050	88	74-125	
trans-1,3-dichloropropene	<0.002	0.057	0.032	56	66-125	X
1,1-Dichloropropene	<0.008	0.057	0.041	72	75-125	X
cis-1,3-Dichloropropene	<0.002	0.057	0.028	49	74-125	X
Ethylbenzene	<0.002	0.057	0.042	74	75-125	X
Hexachlorobutadiene	<0.008	0.057	0.018	32	75-125	X
isopropylbenzene	<0.008	0.057	0.039	68	75-125	X
Methylene Chloride	<0.015	0.057	0.078	137	75-125	X
n-Propylbenzene	<0.008	0.057	0.051	89	75-125	
Styrene	<0.008	0.057	0.029	51	75-125	X
1,1,1,2-Tetrachloroethane	<0.008	0.057	0.048	84	72-125	
1,1,1,2-Tetrachloroethane	<0.002	0.057	0.040	70	74-125	X
Tetrachloroethylene	<0.002	0.057	0.046	81	71-125	
Toluene	<0.002	0.057	0.042	74	59-139	
1,2,4-Trichlorobenzene	<0.008	0.057	0.015	26	75-135	X
1,2,3-Trichlorobenzene	<0.008	0.057	0.014	25	75-137	X
1,1,2-Trichloroethane	<0.002	0.057	0.052	91	75-127	
1,1,1-Trichloroethane	<0.002	0.057	0.050	88	75-125	
Trichloroethene	<0.002	0.057	0.041	72	62-137	
Trichlorofluoromethane	<0.008	0.057	0.042	74	67-125	
1,2,3-Trichloropropane	<0.008	0.057	0.038	67	75-125	X
1,2,4-Trimethylbenzene	<0.008	0.057	0.021	37	75-125	X
1,3,5-Trimethylbenzene	<0.008	0.057	0.037	65	70-130	X
Vinyl Acetate	<0.077	0.573	0.093	16	75-125	X
Vinyl Chloride	<0.002	0.057	0.038	67	65-135	
o-Xylene	<0.003	0.057	0.037	65	75-125	X
m,p-Xylenes	<0.002	0.115	0.075	65	75-125	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference [E] = 200*(C-A)/(C+B)
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 342449

Lab Batch ID: 771858

Date Analyzed: 09/08/2009

Reporting Units: mg/kg

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 342449-002 S

Date Prepared: 09/08/2009

Batch #: 1

Matrix: Soil

Analyst: MCH

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acetone	<0.122	0.624	0.450	72	0.616	0.438	71	3	50-150	21	
Benzene	0.004	0.062	0.061	92	0.062	0.064	97	5	66-142	21	
Bromobenzene	<0.006	0.062	0.062	100	0.062	0.062	100	0	75-125	25	
Bromochloromethane	<0.006	0.062	0.071	115	0.062	0.075	121	5	73-125	20	
Bromodichloromethane	<0.006	0.062	0.069	111	0.062	0.073	118	6	75-125	20	
Bromoform	<0.006	0.062	0.052	84	0.062	0.056	90	7	75-125	20	
Bromomethane	<0.006	0.062	0.058	94	0.062	0.063	102	8	65-135	20	
2-Butanone	<0.061	0.624	0.475	76	0.616	0.449	73	6	75-125	20	X
MTBE	<0.006	0.062	0.071	115	0.062	0.076	123	7	65-135	20	
tert-Butylbenzene	<0.006	0.062	0.068	110	0.062	0.065	105	5	75-125	25	
Sec-Butylbenzene	0.031	0.062	0.090	95	0.062	0.081	81	11	75-125	25	
n-Butylbenzene	0.089	0.062	0.137	77	0.062	0.127	61	8	75-125	25	X
Carbon Disulfide	<0.061	0.624	0.717	115	0.616	0.749	122	4	65-135	20	
Carbon Tetrachloride	<0.006	0.062	0.076	123	0.062	0.082	132	8	62-125	20	X
Chlorobenzene	<0.006	0.062	0.065	105	0.062	0.066	106	2	60-133	21	
Chloroethane	<0.012	0.062	0.066	106	0.062	0.069	111	4	65-135	20	
Chloroform	<0.006	0.062	0.064	103	0.062	0.068	110	6	74-125	20	
Chloromethane	<0.012	0.062	0.069	111	0.062	0.073	118	6	65-135	20	
2-Chlorotoluene	<0.006	0.062	0.061	98	0.062	0.060	97	2	73-125	25	
4-Chlorotoluene	<0.006	0.062	0.077	124	0.062	0.077	124	0	74-125	25	
p-Cymene (p-Isopropyltoluene)	0.042	0.062	0.100	94	0.062	0.094	84	6	75-125	25	
1,2-Dibromo-3-Chloropropane	<0.006	0.062	0.059	95	0.062	0.066	106	11	59-125	28	
Dibromochloromethane	<0.006	0.062	0.050	81	0.062	0.053	85	6	73-125	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 342449

Lab Batch ID: 771858

Date Analyzed: 09/08/2009

Reporting Units: mg/kg

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Soil

QC- Sample ID: 342449-002 S Analyst: MCH

Date Prepared: 09/08/2009

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dibromomethane	<0.006	0.062	0.057	92	0.062	0.057	92	0	69-127	23	
1,2-Dichlorobenzene	<0.006	0.062	0.056	90	0.062	0.057	92	2	75-125	25	
1,3-Dichlorobenzene	<0.006	0.062	0.063	102	0.062	0.064	103	2	75-125	25	
1,4-Dichlorobenzene	<0.006	0.062	0.056	90	0.062	0.058	94	4	75-125	25	
Dichlorodifluoromethane	<0.006	0.062	0.094	152	0.062	0.098	158	4	65-135	23	X
1,2-Dichloroethane	<0.006	0.062	0.054	87	0.062	0.056	90	4	68-127	20	
1,1-Dichloroethane	<0.006	0.062	0.064	103	0.062	0.067	108	5	72-125	20	
trans-1,2-dichloroethene	<0.006	0.062	0.065	105	0.062	0.069	111	6	75-125	20	
cis-1,2-Dichloroethene	<0.006	0.062	0.069	111	0.062	0.071	115	3	75-125	20	
1,1-Dichloroethene	<0.006	0.062	0.080	129	0.062	0.083	134	4	59-172	22	
2,2-Dichloropropane	<0.006	0.062	0.080	129	0.062	0.083	134	4	75-125	25	X
1,3-Dichloropropane	<0.006	0.062	0.057	92	0.062	0.059	95	3	75-125	25	
1,2-Dichloropropane	<0.006	0.062	0.062	100	0.062	0.064	103	3	74-125	20	
trans-1,3-dichloropropene	<0.006	0.062	0.060	97	0.062	0.061	98	2	66-125	20	
1,1-Dichloropropene	<0.006	0.062	0.067	108	0.062	0.068	110	1	75-125	25	
cis-1,3-Dichloropropene	<0.006	0.062	0.059	95	0.062	0.060	97	2	74-125	20	
Ethylbenzene	0.241	0.062	0.279	61	0.062	0.273	52	2	75-125	20	X
Hexachlorobutadiene	<0.006	0.062	0.042	68	0.062	0.029	47	37	75-125	25	XF
isopropylbenzene	0.059	0.062	0.124	105	0.062	0.121	100	2	75-125	25	
Methylene Chloride	<0.024	0.062	0.050	81	0.062	0.051	82	2	75-125	35	
n-Propylbenzene	0.136	0.062	0.186	81	0.062	0.185	79	1	75-125	25	
Styrene	<0.006	0.062	0.072	116	0.062	0.073	118	1	75-125	51	
1,1,1,2-Tetrachloroethane	<0.006	0.062	0.073	118	0.062	0.077	124	5	72-125	20	

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 342449

Lab Batch ID: 771858

Date Analyzed: 09/08/2009

Reporting Units: mg/kg

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 342449-002 S

Date Prepared: 09/08/2009

Batch #: 1 Matrix: Soil Analyst: MCH

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<0.006	0.062	0.054	87	0.062	0.053	85	2	74-125	31	
Tetrachloroethylene	<0.006	0.062	0.071	115	0.062	0.073	118	3	71-125	20	
Toluene	0.008	0.062	0.067	95	0.062	0.069	98	3	59-139	21	
1,2,4-Trichlorobenzene	<0.006	0.062	0.041	66	0.062	0.041	66	0	75-135	25	X
1,2,3-Trichlorobenzene	<0.006	0.062	0.044	71	0.062	0.041	66	7	75-137	25	X
1,1,2-Trichloroethane	<0.006	0.062	0.064	103	0.062	0.066	106	3	75-127	20	
1,1,1-Trichloroethane	<0.006	0.062	0.076	123	0.062	0.080	129	5	75-125	20	X
Trichloroethene	<0.006	0.062	0.075	121	0.062	0.077	124	3	62-137	24	
Trichlorofluoromethane	<0.006	0.062	0.087	140	0.062	0.092	148	6	67-125	20	X
1,2,3-Trichloropropane	<0.006	0.062	0.058	94	0.062	0.059	95	2	75-125	20	
1,2,4-Trimethylbenzene	0.730	0.062	0.723	0	0.062	0.719	0	1	75-125	25	X
1,3,5-Trimethylbenzene	0.206	0.062	0.244	61	0.062	0.242	58	1	70-130	25	X
Vinyl Acetate	<0.061	0.624	0.276	44	0.616	0.282	46	2	75-125	20	X
Vinyl Chloride	<0.002	0.062	0.075	121	0.062	0.077	124	3	65-135	20	
o-Xylene	0.270	0.062	0.306	58	0.062	0.298	45	3	75-125	20	X
m,p-Xylenes	0.649	0.125	0.706	46	0.123	0.690	33	2	75-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 342449

Lab Batch ID: 771868

Date Analyzed: 09/08/2009

Reporting Units: mg/kg

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 342441-001 S

Date Prepared: 09/08/2009

Batch #: 1

Matrix: Soil

Analyst: CRW

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acetone	<0.167	0.560	0.400	71	0.560	0.423	76	6	50-150	21	
Benzene	<0.002	0.056	0.026	46	0.056	0.026	46	0	66-142	21	X
Bromobenzene	<0.008	0.056	0.009	16	0.056	0.009	16	0	75-125	25	X
Bromochloromethane	<0.008	0.056	0.031	55	0.056	0.029	52	7	73-125	20	X
Bromodichloromethane	<0.002	0.056	0.026	46	0.056	0.025	45	4	75-125	20	X
Bromoform	<0.002	0.056	0.018	32	0.056	0.017	30	6	75-125	20	X
Bromomethane	<0.002	0.056	0.039	70	0.056	0.044	79	12	65-135	20	
2-Butanone	<0.083	0.560	0.393	70	0.560	0.379	68	4	75-125	20	X
MTBE	<0.008	0.056	0.046	82	0.056	0.044	79	4	65-135	20	
tert-Butylbenzene	<0.008	0.056	0.011	20	0.056	0.013	23	17	75-125	25	X
Sec-Butylbenzene	<0.008	0.056	0.009	16	0.056	0.012	21	29	75-125	25	XF
n-Butylbenzene	<0.008	0.056	0.005	9	0.056	0.007	13	33	75-125	25	XF
Carbon Disulfide	<0.083	0.560	0.288	51	0.560	0.336	60	15	65-135	20	X
Carbon Tetrachloride	<0.002	0.056	0.030	54	0.056	0.033	59	10	62-125	20	X
Chlorobenzene	<0.002	0.056	0.013	23	0.056	0.013	23	0	60-133	21	X
Chloroethane	<0.002	0.056	0.035	63	0.056	0.044	79	23	65-135	20	XF
Chloroform	<0.002	0.056	0.029	52	0.056	0.029	52	0	74-125	20	X
Chloromethane	<0.002	0.056	0.043	77	0.056	0.054	96	23	65-135	20	F
2-Chlorotoluene	<0.008	0.056	0.009	16	0.056	0.010	18	11	73-125	25	X
4-Chlorotoluene	<0.008	0.056	0.008	14	0.056	0.008	14	0	74-125	25	X
p-Cymene (p-Isopropyltoluene)	<0.008	0.056	0.007	13	0.056	0.010	18	35	75-125	25	XF
1,2-Dibromo-3-Chloropropane	<0.008	0.056	0.015	27	0.056	0.015	27	0	59-125	28	X
Dibromochloromethane	<0.002	0.056	0.018	32	0.056	0.018	32	0	73-125	25	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Work Order #: 342449

Lab Batch ID: 771868

Date Analyzed: 09/08/2009

Reporting Units: mg/kg

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 342441-001 S

Date Prepared: 09/08/2009

Batch #: 1

Matrix: Soil

Analyst: CRW

VOAs by SW-846 8260B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Dibromomethane	<0.008	0.056	0.024	43	0.056	0.022	39	9	69-127	23	X
1,2-Dichlorobenzene	<0.002	0.056	0.006	11	0.056	0.006	11	0	75-125	25	X
1,3-Dichlorobenzene	<0.002	0.056	0.006	11	0.056	0.006	11	0	75-125	25	X
1,4-Dichlorobenzene	<0.002	0.056	0.005	9	0.056	0.005	9	0	75-125	25	X
Dichlorodifluoromethane	<0.008	0.056	0.045	80	0.056	0.064	114	35	65-135	23	F
1,2-Dichloroethane	<0.002	0.056	0.028	50	0.056	0.026	46	7	68-127	20	X
1,1-Dichloroethane	<0.002	0.056	0.033	59	0.056	0.034	61	3	72-125	20	X
trans-1,2-dichloroethene	<0.002	0.056	0.025	45	0.056	0.027	48	8	75-125	20	X
cis-1,2-Dichloroethene	<0.008	0.056	0.027	48	0.056	0.027	48	0	75-125	20	X
1,1-Dichloroethene	<0.002	0.056	0.032	57	0.056	0.036	64	12	59-172	22	X
2,2-Dichloropropane	<0.008	0.056	0.032	57	0.056	0.039	70	20	75-125	25	X
1,3-Dichloropropane	<0.008	0.056	0.024	43	0.056	0.023	41	4	75-125	25	X
1,2-Dichloropropane	<0.002	0.056	0.029	52	0.056	0.028	50	4	74-125	20	X
trans-1,3-dichloropropene	<0.002	0.056	0.018	32	0.056	0.017	30	6	66-125	20	X
1,1-Dichloropropene	<0.008	0.056	0.027	48	0.056	0.029	52	7	75-125	25	X
cis-1,3-Dichloropropene	<0.002	0.056	0.018	32	0.056	0.017	30	6	74-125	20	X
Ethylbenzene	<0.002	0.056	0.016	29	0.056	0.018	32	12	75-125	20	X
Hexachlorobutadiene	<0.008	0.056	0.003	5	0.056	0.004	7	29	75-125	25	XF
isopropylbenzene	<0.008	0.056	0.014	25	0.056	0.017	30	19	75-125	25	X
Methylene Chloride	<0.017	0.056	0.039	70	0.056	0.039	70	0	75-125	35	X
n-Propylbenzene	<0.008	0.056	0.011	20	0.056	0.014	25	24	75-125	25	X
Styrene	<0.008	0.056	0.009	16	0.056	0.010	18	11	75-125	51	X
1,1,1,2-Tetrachloroethane	<0.008	0.056	0.020	36	0.056	0.021	38	5	72-125	20	X

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQ = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 342449

Lab Batch ID: 771868

Date Analyzed: 09/08/2009

Reporting Units: mg/kg

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Soil

QC- Sample ID: 342441-001 S Date Prepared: 09/08/2009 Analyst: CRW

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
VOAs by SW-846 8260B											
1,1,2,2-Tetrachloroethane	<0.002	0.056	0.020	36	0.056	0.020	36	0	74-125	31	X
Tetrachloroethylene	<0.002	0.056	0.019	34	0.056	0.022	39	15	71-125	20	X
Toluene	<0.002	0.056	0.019	34	0.056	0.020	36	5	59-139	21	X
1,2,4-Trichlorobenzene	<0.008	0.056	0.003	5	0.056	0.003	5	0	75-135	25	X
1,2,3-Trichlorobenzene	<0.008	0.056	0.003	5	0.056	0.003	5	0	75-137	25	X
1,1,2-Trichloroethane	<0.002	0.056	0.026	46	0.056	0.024	43	8	75-127	20	X
1,1,1-Trichloroethane	<0.002	0.056	0.031	55	0.056	0.035	63	12	75-125	20	X
Trichloroethene	<0.002	0.056	0.023	41	0.056	0.024	43	4	62-137	24	X
Trichlorofluoromethane	<0.008	0.056	0.039	70	0.056	0.056	100	36	67-125	20	F
1,2,3-Trichloropropane	<0.008	0.056	0.021	38	0.056	0.021	38	0	75-125	20	X
1,2,4-Trimethylbenzene	<0.008	0.056	0.005	9	0.056	0.007	13	33	75-125	25	XF
1,3,5-Trimethylbenzene	<0.008	0.056	0.008	14	0.056	0.011	20	32	70-130	25	XF
Vinyl Acetate	<0.083	0.560	0.062	11	0.560	0.059	11	5	75-125	20	X
Vinyl Chloride	<0.002	0.056	0.043	77	0.056	0.059	105	31	65-135	20	F
o-Xylene	<0.003	0.056	0.014	25	0.056	0.015	27	7	75-125	20	X
m,p-Xylenes	<0.002	0.112	0.029	26	0.112	0.034	30	16	75-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQ.L = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery



Project Name: 900 S. Central Avenue

Work Order #: 342449

Lab Batch #: 770125

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 08/27/2009

Date Prepared: 08/27/2009

Analyst: ALA

QC- Sample ID: 342449-006 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	23.9	23.2	3	20	

Lab Batch #: 770127

Date Analyzed: 08/27/2009

Date Prepared: 08/27/2009

Analyst: ALA

QC- Sample ID: 342401-004 D

Batch #: 1

Matrix: Solid

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	2.39	2.51	5	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
 4143 Greenbrier Dr., Stafford, TX 77477
 XENCO TEL: 281-240-4200 FAX: 281-240-4280

- CALSCIENCE
- TEST AMERICA
- SPL
- OTHER

- Please Check Appropriate Box:
- ENV. SERVICES
 - MOTIVA SOCON
 - SHELL PIPELINE
 - MOTIVA RETAIL
 - CONSULTANT
 - SHELL RETAIL
 - LUBES
 - OTHER

Print Bill To: Contact Name: KEVIN DYER
 INCIDENT # (ENV. SERVICES): 9 7 2 1 6 6 4 0
 DATE: 8/26/09
 CHECK IF NO INCIDENT # APPLIES:
 P.O. # 3 4 0 0 6 1
 SAP #

CONSULTANT COMPANY: URS CORPORATION - FIELD OFFICE
 ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300
 CITY: ST. LOUIS, MISSOURI 63110
 OFFICE: 314-743-4168 FAX: 314-743-4168
 CELL: 314-452-8929
 TURNAROUND TIME (CALENDAR DAYS): 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND
 DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) EDD
 TEMPERATURE ON RECEIPT C° Cooler #1 2-3 Cooler #2
 SPECIAL INSTRUCTIONS OR NOTES:
 Please include "J" values on Level 2 Reports
 Please provide sample receipt upon login.

CONSULTANT PROJECT NAME NO.: 900 S. CENTRAL AVENUE; ROXANA, ILLINOIS 62084
 CONSULTANT PROJECT CONTACT (Report to): WENDY PENNINGTON
 ROUTE: 111 & RAND AVE VICINITY / 21561979
 LAB USE ONLY: 342449-H
 W. Pennington
 W. Miller
 W. Satama

LAB USE ONLY	FIELD SAMPLE IDENTIFICATION		SAMPLING		MATRIX	HCL	PRESERVATIVE			NO. OF CONT.	LABORATORY NOTES
	DATE	TIME	DATE	TIME			H2O2	H2SO4	NONE		
	GP-9-18	8/25/09	1250	↓	SOIL			2	3	5	X
	GP-9-37	8/25/09	1355	↓				2	3	5	X
	TB 082509	8/25/09	1015	↓	WMP			1	3	4	X
	GP-7-37	8/26/09	1015	↓	WMP			1	3	4	X
	GP-7-37D		1015	↓				2	3	5	X
	GP-7-41		1020	↓				2	3	5	X
	GP-7-25		1045	↓				2	3	5	X
	GP-8-13		1345	↓				2	3	5	X
	GP-8-35		1350	↓				2	3	5	X
	GP-8-47		1410	↓				1	3	4	X

Requested Analysis: VOC 8260B, SVOC/PAH 8270B, moisture

Requested by (Signature): Wendy P right
 Date: 8/26/09
 Time: 1700

Received by (Signature): FREDERICK
 Date: 8/27/09
 Time: 0845



Prelogin / Nonconformance Report - Sample Log-In

Client: URS CORPORATION
Date/Time: 08/27/09
Lab ID #: 3 of 2449
Initials: [Signature]

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	<u>Yes</u>	No		
7. Chain of custody signed when-relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No. <u>704</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>71</u> lbs <u>23</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

email

Contact: Wendy Pennington Contacted by: Debbie Simmons Date/Time: 8/27/09

Regarding: Sample # 005, 1 liter (2oz) C.O.C. says 4 containers receiving 5 containers, receiving 5 containers

Corrective Action Taken: Sample # 011, labels says EP8-47 D, C.O.C. says, just EP-8-47

GPB-47 should be identified as GP8-47D.

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 343257

Reviewer: Tony Sedlacek

Date Reviewed: 1/18/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GP-4-11	GP-4-22.5
GP-4-33	GP-2-17
GP-2-23.5D	GP-2-23.5
TB083109	GP-4-34
GP-4-34D	GP-4-42
GP-1-31EB	GP-1-31
GP-1-31D	GP-1-22.5
GP-1-34	GP-1-42

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that methylene chloride was detected in the method blank. VOC and SVOC MS/MSD and MS/MSD RPDs were outside evaluation criteria. Acetone in sample GP-1-22.5 was qualified using professional judgment. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that VOC sample containers for sample GP-2-17 were listed on the COC but were not received by the laboratory. The laboratory contacted URS and URS shipped the VOC samples for next day delivery to the laboratory. In addition, the laboratory received VOC vials for samples GP-1-31 and GP-1-31D and only one vial had a sample label. The vials were in the sample bag. The samples were a parent sample and field duplicate. All samples were analyzed for the requested analyses. All sample ID issues were resolved prior to sample analysis and no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

No

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
537898-1-BLK	VOCs	Methylene chloride	3.43	µg/L

Methylene chloride was reported non-detect in all samples associated with method blank 537898-1-BLK; therefore, no qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

Yes, sample GP-1-34 was spiked and analyzed for VOCs and SVOCs. Sample GP-4-33 was spiked and analyzed for VOCs.

Were MS/MSD recoveries within evaluation criteria?

No, 23 out of 62 VOC MS recoveries and 14 out of 62 VOC MSD recoveries in sample GP-4-33 and 9 out of 62 VOC MS recoveries, 8 out of 62 VOC MSD recoveries and 1 out of 62 VOC MS/MSD RPDs in sample GP-1-34 were outside evaluation criteria and were not listed individually.

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/ RPD Criteria
GP-1-34	SVOCs	Aniline	34/51	40	5-115/25
GP-1-34	SVOCs	bis(2-chloroethyl) ether	72/64	11	65-135/25

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/ RPD Criteria
GP-1-34	SVOCs	3,3-Dichlorobenzidine	13/8	55	12-147/25
GP-1-34	SVOCs	2,4-Dimethylphenol	75/25	102	32-119/25

USEPA National Functional Guidelines for Superfund Organic Methods Data Review indicates that organic data should not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria; therefore, no qualification of the data was required.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
GP-2-23.5	GP-2-23.5D
GP-4-34	GP-4-34D
GP-1-31	GP-1-31D

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes

Professional judgment was used to qualify the common laboratory contaminant acetone reported at concentrations less than two times (2X) the RL. Additionally, USEPA Method 5035A states that acidification of certain soils with sodium bisulfate may produce a false positive acetone artifact of 100-200 ppb, or more. Acetone reported at concentrations less than 200 ppb (ug/kg) were qualified.

Sample ID	Analyte	New RL	Qualification	Comment
GP-1-22.5	Acetone	-	U	Professional Judgment

Analytical Report 343257

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

21-SEP-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),

South Carolina(96031001), Louisiana(04154), Georgia(917)



21-SEP-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **343257**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 343257. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 343257 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

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Certified and approved by numerous States and Agencies.

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Sample Cross Reference 343257



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GP-4-11	S	Aug-31-09 12:05		343257-001
GP-4-22.5	S	Aug-31-09 12:15		343257-002
GP-4-33	S	Aug-31-09 12:25		343257-003
GP-2-17	S	Aug-31-09 16:30		343257-004
GP-2-23.5D	S	Aug-31-09 16:50		343257-005
GP-2-23.5	S	Aug-31-09 16:50		343257-006
TB083109	W	Aug-31-09 00:00		343257-007
GP-4-34	W	Sep-01-09 11:00		343257-008
GP-4-34D	W	Sep-01-09 11:00		343257-009
GP-4-42	W	Sep-01-09 12:50		343257-010
GP-1-31EB	W	Sep-02-09 09:10		343257-011
GP-1-31	S	Sep-02-09 09:40		343257-012
GP-1-31D	S	Sep-02-09 09:40		343257-013
GP-1-22.5	S	Sep-02-09 09:50		343257-014
GP-1-34	W	Sep-02-09 12:10		343257-015
GP-1-42	W	Sep-02-09 14:05		343257-016



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic

Work Order Number: 343257

Report Date: 21-SEP-09

Date Received: 09/03/2009

Sample receipt non conformances and Comments:

Sample numbered 343257-004 (GP-2-17) was missing the terracores, only received a 2 oz jar. Client was contacted on 9/3 and the missing terracores were shipped that day and received the following day, 9/4.

The terracore vials for samples numbered 343257-012 and 343257-013 were not all labeled with the field ID. One terracore was labeled GP-1-31 and all others were in the same bag with this sample. These were duplicate samples of each other.

All others samples matched the chain of custody.

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-770971 Percent Moisture

None

Batch: LBA-771432 SVOCs by SW-846 8270C

2,4-Dimethylphenol, 3,3-Dichlorobenzidine, bis(2-chloroethyl) ether recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 343257-016, -010, -015, -009, -008.

The Laboratory Control Sample for 3,3-Dichlorobenzidine, bis(2-chloroethyl) ether, 2,4-Dimethylphenol is within laboratory Control Limits

Hexachlorocyclopentadiene, Indeno(1,2,3-c,d)Pyrene, 2,4-Dimethylphenol, 3,3-Dichlorobenzidine, Aniline (Phenylamine, Aminobenzene) RPD was outside QC limits in the Matrix Spike/Matrix Spike Duplicate.

Samples affected are: 343257-016, -010, -015, -009, -008



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 343257

Report Date: 21-SEP-09
Date Received: 09/03/2009

Batch: LBA-772589 VOAs by SW-846 8260B

1,1,1-Trichloroethane, 1,2-Dichlorobenzene, 4-Chlorotoluene, Bromobenzene, Ethylbenzene, Methylene Chloride, Styrene, Tetrachloroethylene, cis-1,2-Dichloroethene, m,p-Xylenes, n-Butylbenzene recovered below QC limits in the Matrix Spike. 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Butanone, Acetone, Bromomethane, Carbon Disulfide, Chloromethane, Hexachlorobutadiene, trans-1,2-dichloroethene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Dichlorodifluoromethane, Vinyl Chloride recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 343257-012, -005, -003, -014, -002, -006, -013, -004, -001.

The Laboratory Control Sample for Acetone, Methylene Chloride, 1,3-Dichlorobenzene, Bromomethane, cis-1,2-Dichloroethene, Carbon Disulfide, Tetrachloroethylene, m,p-Xylenes, 1,4-Dichlorobenzene, Bromobenzene, n-Butylbenzene, Chloromethane, Ethylbenzene, 1,1,1-Trichloroethane, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, Dichlorodifluoromethane, trans-1,2-dichloroethene, 2-Butanone, Styrene, 4-Chlorotoluene, Hexachlorobutadiene, 1,2,3-Trichlorobenzene, 1,1-Dichloropropene, Vinyl Chloride is within laboratory Control Limits

Note: CCV biased high 23.4% for Acetone. Acceptance range is 20%. Acetone was 3.4% higher than acceptance range. Sample 014 reporting J value for Acetone, this value could be biased high.

Batch: LBA-772603 VOAs by SW-846 8260B

Methylene Chloride detected in the blank below the MQL but above the SQL; possible laboratory contamination.

Samples affected are: 343257-016, -007, -015.

1,1-Dichloropropene recovered below QC limits in the Matrix Spike. 2,2-Dichloropropane, Acetone, Bromomethane, Dibromochloromethane, Methylene Chloride, Vinyl Acetate, cis-1,3-Dichloropropene, trans-1,2-dichloroethene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 343257-016, -007, -015.

The Laboratory Control Sample for Bromomethane, Acetone, Methylene Chloride, Vinyl Acetate, 2,2-Dichloropropane, cis-1,3-Dichloropropene, trans-1,2-dichloroethene, Dibromochloromethane, 1,1-Dichloropropene is within laboratory Control Limits

Bromomethane RPD was outside QC limits in the Matrix Spike/Matrix Spike Duplicate.

Samples affected are: 343257-016, -007, -015



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic
Work Order Number: 343257

Report Date: 21-SEP-09
Date Received: 09/03/2009

Batch: LBA-773004 VOAs by SW-846 8260B
SW8260B

Batch 773004, Trichlorofluoromethane recovered below QC limits in the Matrix Spike. 1,1-Dichloropropene, 2-Butanone, Acetone, Benzene, Bromomethane, Carbon Disulfide, Chloroethane, Chloromethane, Dichlorodifluoromethane, Methylene Chloride, Tetrachloroethylene, Vinyl Acetate, Vinyl Chloride, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, trans-1,2-dichloroethene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloropropane, Bromochloromethane, Chloroform, Dibromomethane, o-Xylene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 343257-010, -009, -008, -011.

The Laboratory Control Sample for Bromomethane, Acetone, Methylene Chloride, 1,1-Dichloroethane, 1,2-Dichloropropane, cis-1,2-Dichloroethene, Bromochloromethane, Carbon Disulfide, Vinyl Acetate, Benzene, Tetrachloroethylene, Chloromethane, cis-1,3-Dichloropropene, Chloroform, Trichlorofluoromethane, 1,1-Dichloroethene, Dibromomethane, o-Xylene, Dichlorodifluoromethane, trans-1,2-dichloroethene, 2-Butanone, Vinyl Chloride, Chloroethane, 1,1-Dichloropropene is within laboratory Control Limits



Certificate of Analysis Summary 343257

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Thu Sep-03-09 08:30 am


Report Date: 21-SEP-09

Project Manager: Debbie Simmons

	Lab Id:	343257-001	343257-002	343257-003	343257-004	343257-005	343257-006
Analysis Requested	Field Id:	GP-4-11	GP-4-22.5	GP-4-33	GP-2-17	GP-2-23.5D	GP-2-23.5
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-31-09 12:05	Aug-31-09 12:15	Aug-31-09 12:25	Aug-31-09 16:30	Aug-31-09 16:50	Aug-31-09 16:50
Percent Moisture	Extracted:						
	Analyzed:	Sep-03-09 17:42	Sep-03-09 17:43	Sep-03-09 17:44	Sep-03-09 17:45	Sep-03-09 17:46	Sep-03-09 17:47
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		31.81 1.00	20.36 1.00	9.21 1.00	22.06 1.00	12.22 1.00	23.46 1.00

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Certificate of Analysis Summary 343257

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Analysis Requested	Lab Id:	343257-001	343257-002	343257-003	343257-004	343257-005	343257-006
	Field Id:	GP-4-11	GP-4-22.5	GP-4-33	GP-2-17	GP-2-23.5D	GP-2-23.5
Depth:							
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampled:		Aug-31-09 12:05	Aug-31-09 12:15	Aug-31-09 12:25	Aug-31-09 16:30	Aug-31-09 16:50	Aug-31-09 16:50
Extracted:		Sep-13-09 15:36	Sep-13-09 15:38	Sep-13-09 15:30	Sep-13-09 15:40	Sep-13-09 15:42	Sep-13-09 15:44
Analyzed:		Sep-13-09 19:23	Sep-13-09 19:49	Sep-13-09 17:38	Sep-13-09 20:15	Sep-13-09 20:41	Sep-13-09 21:07
Units/RL:		mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Acetone		U 0.176	U 0.094	U 0.102	U 0.104	U 0.090	U 0.104
Benzene		0.002 J 0.009	U 0.005	0.003 J 0.005	U 0.005	U 0.004	U 0.005
Bromobenzene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Bromochloromethane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Bromodichloromethane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Bromoform		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Bromomethane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
2-Butanone		U 0.088	U 0.047	U 0.051	U 0.052	U 0.045	U 0.052
MTBE		0.005 J 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
tert-Butylbenzene		0.005 J 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Sec-Butylbenzene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
n-Butylbenzene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Carbon Disulfide		U 0.088	U 0.047	U 0.051	U 0.052	U 0.045	U 0.052
Carbon Tetrachloride		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Chlorobenzene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Chloroethane		U 0.018	U 0.009	U 0.010	U 0.010	U 0.009	U 0.010
Chloroform		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Chloromethane		U 0.018	U 0.009	U 0.010	U 0.010	U 0.009	U 0.010
2-Chlorotoluene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
4-Chlorotoluene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
p-Cymene (p-Isopropyltoluene)		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
1,2-Dibromo-3-Chloropropane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Dibromochloromethane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Dibromomethane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
1,2-Dichlorobenzene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005

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 Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 343257

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Thu Sep-03-09 08:30 am

Report Date: 21-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	343257-001	343257-002	343257-003	343257-004	343257-005	343257-006
	Field Id:	GP-4-11	GP-4-22.5	GP-4-33	GP-2-17	GP-2-23.5D	GP-2-23.5
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-31-09 12:05	Aug-31-09 12:15	Aug-31-09 12:25	Aug-31-09 16:30	Aug-31-09 16:50	Aug-31-09 16:50
	Extracted:	Sep-13-09 15:36	Sep-13-09 15:38	Sep-13-09 15:30	Sep-13-09 15:40	Sep-13-09 15:42	Sep-13-09 15:44
	Analyzed:	Sep-13-09 19:23	Sep-13-09 19:49	Sep-13-09 17:38	Sep-13-09 20:15	Sep-13-09 20:41	Sep-13-09 21:07
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
1,3-Dichlorobenzene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
1,4-Dichlorobenzene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Dichlorodifluoromethane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
1,2-Dichloroethane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
1,1-Dichloroethane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
trans-1,2-dichloroethene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
cis-1,2-Dichloroethene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
1,1-Dichloroethene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
2,2-Dichloropropane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
1,3-Dichloropropane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
1,2-Dichloropropane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
trans-1,3-dichloropropene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
1,1-Dichloropropene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
cis-1,3-Dichloropropene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Ethylbenzene		0.002 J 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Hexachlorobutadiene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
isopropylbenzene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Methylene Chloride		U 0.035	U 0.019	U 0.020	U 0.021	U 0.018	U 0.021
n-Propylbenzene		0.003 J 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Styrene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
1,1,1,2-Tetrachloroethane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
1,1,2,2-Tetrachloroethane		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Tetrachloroethylene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
Toluene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005
1,2,4-Trichlorobenzene		U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 343257

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Sep-03-09 08:30 am

Report Date: 21-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	343257-001	343257-002	343257-003	343257-004	343257-005	343257-006
	Field Id:	GP-4-11	GP-4-22.5	GP-4-33	GP-2-17	GP-2-23.5D	GP-2-23.5
Depth:							
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampled:	Aug-31-09 12:05	Aug-31-09 12:15	Aug-31-09 12:25	Aug-31-09 16:30	Aug-31-09 16:50	Aug-31-09 16:50	Aug-31-09 16:50
Extracted:	Sep-13-09 15:36	Sep-13-09 15:38	Sep-13-09 15:30	Sep-13-09 15:40	Sep-13-09 15:42	Sep-13-09 15:44	Sep-13-09 15:44
Analyzed:	Sep-13-09 19:23	Sep-13-09 19:49	Sep-13-09 17:38	Sep-13-09 20:15	Sep-13-09 20:41	Sep-13-09 21:07	Sep-13-09 21:07
Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
1,2,3-Trichlorobenzene	U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005	U 0.005
1,1,2-Trichloroethane	U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005	U 0.005
1,1,1-Trichloroethane	U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005	U 0.005
Trichloroethene	U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005	U 0.005
Trichlorofluoromethane	U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005	U 0.005
1,2,3-Trichloropropane	U 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005	U 0.005
1,2,4-Trimethylbenzene	0.011 0.009	U 0.005	0.002 J 0.005	U 0.005	U 0.004	U 0.005	U 0.005
1,3,5-Trimethylbenzene	0.003 J 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005	U 0.005
Vinyl Acetate	U 0.088	U 0.047	U 0.051	U 0.052	U 0.045	U 0.052	U 0.052
Vinyl Chloride	U 0.004	U 0.002	U 0.002	U 0.002	U 0.002	U 0.002	U 0.002
o-Xylene	0.002 J 0.009	U 0.005	U 0.005	U 0.005	U 0.004	U 0.005	U 0.005
m,p-Xylenes	0.005 J 0.018	U 0.009	U 0.010	U 0.010	U 0.009	U 0.009	U 0.010

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 Contact: Wendy Pennington
 Project Location: Roxana, IL 62084

Date Received in Lab: Thu Sep-03-09 08:30 am
 Report Date: 21-SEP-09

Project Manager: Debbie Simmons

	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	343257-007	343257-008	343257-009	343257-010	343257-011	343257-012
Analysis Requested	TB083109	GP-4-34	GP-4-34D	GP-4-42	GP-1-31EB	GP-1-31	WATER	WATER	WATER	WATER	SOIL
	Aug-31-09 00:00	Sep-01-09 11:00	Sep-01-09 11:00	Sep-01-09 12:50	Sep-02-09 09:10	Sep-02-09 09:40					
Percent Moisture											
Percent Moisture											Sep-03-09 17:48
											%
											4.55
											RL
											1.00

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Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	343257-007	343257-008	343257-009	343257-010	343257-011	343257-012
						TB083109	GP-4-34	GP-4-34D	GP-4-42	GP-1-31EB	GP-1-31
						WATER	WATER	WATER	WATER	WATER	SOIL
						Aug-31-09 00:00	Sep-01-09 11:00	Sep-01-09 11:00	Sep-01-09 12:50	Sep-02-09 09:10	Sep-02-09 09:40
SVOAs by SW-846 8270C	Extracted:	Analyzed:	Units/RL:								
Acenaphthene						U 0.005	U 0.005	U 0.005	U 0.005		
Acenaphthylene						U 0.005	U 0.005	U 0.005	U 0.005		
Aniline (Phenylamine, Aminobenzene)						U 0.020	U 0.020	U 0.020	U 0.020		
Anthracene						U 0.005	U 0.005	U 0.005	U 0.005		
Benzo(a)anthracene						U 0.005	U 0.005	U 0.005	U 0.005		
Benzo(a)pyrene						U 0.005	U 0.005	U 0.005	U 0.005		
Benzo(b)fluoranthene						U 0.005	U 0.005	U 0.005	U 0.005		
Benzo(k)fluoranthene						U 0.005	U 0.005	U 0.005	U 0.005		
Benzo(g,h,i)perylene						U 0.005	U 0.005	U 0.005	U 0.005		
Benzoic Acid						U 0.030	U 0.030	U 0.030	U 0.030		
Benzyl Butyl Phthalate						U 0.005	U 0.005	U 0.005	U 0.005		
bis(2-chloroethoxy) methane						U 0.010	U 0.010	U 0.010	U 0.010		
bis(2-chloroethyl) ether						U 0.010	U 0.010	U 0.010	U 0.010		
bis(2-chloroisopropyl) ether						U 0.010	U 0.010	U 0.010	U 0.010		
bis(2-ethylhexyl) phthalate						U 0.005	U 0.005	U 0.005	U 0.005		
4-Bromophenyl-phenylether						U 0.010	U 0.010	U 0.010	U 0.010		
4-chloro-3-methylphenol						U 0.010	U 0.010	U 0.010	U 0.010		
4-Chloroaniline						U 0.020	U 0.020	U 0.020	U 0.020		
2-Chloronaphthalene						U 0.010	U 0.010	U 0.010	U 0.010		
2-Chlorophenol						U 0.010	U 0.010	U 0.010	U 0.010		
4-Chlorophenyl Phenyl Ether						U 0.005	U 0.005	U 0.005	U 0.005		
Chrysene						U 0.005	U 0.005	U 0.005	U 0.005		
Dibenz(a,h)anthracene						U 0.010	U 0.010	U 0.010	U 0.010		
Dibenzofuran						U 0.005	U 0.005	U 0.005	U 0.005		
di-n-Butyl Phthalate						U 0.005	U 0.005	U 0.005	U 0.005		

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Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Sep-03-09 08:30 am

Report Date: 21-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	343257-007	343257-008	343257-009	343257-010	343257-011	343257-012
	Field Id:	TB083109	GP-4-34	GP-4-34D	GP-4-42	GP-1-31EB	GP-1-31
Depth:							
Matrix:		WATER	WATER	WATER	WATER	WATER	SOIL
Sampled:		Aug-31-09 00:00	Sep-01-09 11:00	Sep-01-09 11:00	Sep-01-09 12:50	Sep-02-09 09:10	Sep-02-09 09:40
Extracted:			Sep-04-09 12:00	Sep-04-09 12:03	Sep-04-09 12:06		
Analyzed:			Sep-08-09 16:31	Sep-08-09 17:08	Sep-08-09 17:44		
Units/RL:			mg/L RL	mg/L RL	mg/L RL		
3,3-Dichlorobenzidine			U 0.010	U 0.010	U 0.010		
2,4-Dichlorophenol			U 0.010	U 0.010	U 0.010		
Diethyl Phthalate			U 0.005	U 0.005	U 0.005		
Dimethyl Phthalate			U 0.005	U 0.005	U 0.005		
2,4-Dimethylphenol			U 0.010	U 0.010	U 0.010		
4,6-dinitro-2-methyl phenol			U 0.010	U 0.010	U 0.010		
2,4-Dinitrophenol			U 0.010	U 0.010	U 0.010		
2,4-Dinitrotoluene			U 0.010	U 0.010	U 0.010		
2,6-Dinitrotoluene			U 0.010	U 0.010	U 0.010		
di-n-Octyl Phthalate			U 0.005	U 0.005	U 0.005		
Fluoranthene			U 0.005	U 0.005	U 0.005		
Fluorene			U 0.005	U 0.005	U 0.005		
Hexachlorobenzene			U 0.010	U 0.010	U 0.010		
Hexachlorocyclopentadiene			U 0.010	U 0.010	U 0.010		
Hexachloroethane			U 0.010	U 0.010	U 0.010		
Indeno(1,2,3-c,d)Pyrene			U 0.005	U 0.005	U 0.005		
Isophorone			U 0.010	U 0.010	U 0.010		
2-Methylnaphthalene			U 0.005	U 0.005	U 0.005		
2-methylphenol			U 0.010	U 0.010	U 0.010		
3&4-Methylphenol			U 0.010	U 0.010	U 0.010		
Naphthalene			U 0.005	0.001 J 0.005	U 0.005		
2-Nitroaniline			U 0.010	U 0.010	U 0.010		
3-Nitroaniline			U 0.010	U 0.010	U 0.010		
4-Nitroaniline			U 0.020	U 0.020	U 0.020		
Nitrobenzene			U 0.010	U 0.010	U 0.010		

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Carlos Castro

Managing Director, Texas



Certificate of Analysis Summary 343257

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Sep-03-09 08:30 am


Report Date: 21-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	343257-007	343257-008	343257-009	343257-010	343257-011	343257-012
	TB083109	GP-4-34	GP-4-34D	GP-4-42	GP-1-31EB	GP-1-31	GP-1-31	GP-1-31	WATER	WATER	WATER	WATER	WATER	SOIL
SVOAs by SW-846 8270C	Aug-31-09 00:00	Sep-01-09 11:00	Sep-01-09 11:00	Sep-01-09 12:00	Sep-01-09 12:03	Sep-01-09 12:06	Sep-01-09 12:06	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
2-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U
N-Nitrosodi-n-Propylamine	U	U	U	U	U	U	U	U	U	U	U	U	U	U
N-Nitrosodiphenylamine	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Phenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Pyrene	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Pyridine	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	U	U	U	U	U	U	U

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 Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 343257

URS Corporation-St. Louis, St. Louis, MO




Project Id: Route 111 & Rand Ave Vicinity/2156197
 Contact: Wendy Pennington
 Project Location: Roxana, IL 62084

Date Received in Lab: Thu Sep-03-09 08:30 am
 Report Date: 21-SEP-09
 Project Manager: Debbie Simmons

Lab Id:	343257-007	343257-008	343257-009	343257-010	343257-011	343257-012
Field Id:	TB083109	GP-4-34	GP-4-34D	GP-4-42	GP-1-31EB	GP-1-31
Depth:						
Matrix:	WATER	WATER	WATER	WATER	WATER	SOIL
Sampled:	Aug-31-09 00:00	Sep-01-09 11:00	Sep-01-09 11:00	Sep-01-09 12:50	Sep-02-09 09:10	Sep-02-09 09:40
Extracted:	Sep-13-09 17:00	Sep-15-09 09:42	Sep-15-09 09:44	Sep-15-09 09:46	Sep-15-09 09:48	Sep-13-09 15:46
Analyzed:	Sep-13-09 23:22	Sep-15-09 13:08	Sep-15-09 13:34	Sep-15-09 14:00	Sep-15-09 14:27	Sep-13-09 21:33
Units/RL:	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL	mg/kg RL
Acetone	U 100	U 100	U 100	U 100	U 100	U 0.090
Benzene	U 5.00	63.5 5.00	66.9 5.00	U 5.00	U 5.00	U 0.004
Bromobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Bromochloromethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Bromodichloromethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Bromoform	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Bromomethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
2-Butanone	U 50.0	U 50.0	U 50.0	U 50.0	U 50.0	U 0.045
MTBE	U 5.00	8.75 5.00	9.28 5.00	U 5.00	U 5.00	U 0.004
n-Butylbenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Sec-Butylbenzene	U 5.00	3.87 J 5.00	3.86 J 5.00	1.25 J 5.00	U 5.00	U 0.004
tert-Butylbenzene	U 5.00	8.38 5.00	8.22 5.00	1.76 J 5.00	U 5.00	U 0.004
Carbon Disulfide	U 50.0	U 50.0	U 50.0	U 50.0	U 50.0	U 0.045
Carbon Tetrachloride	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Chlorobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Chloroethane	U 10.0	U 10.0	U 10.0	U 10.0	U 10.0	U 0.009
Chloroform	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Chloromethane	U 10.0	U 10.0	U 10.0	U 10.0	U 10.0	U 0.009
2-Chlorotoluene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
4-Chlorotoluene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
p-Cymene (p-Isopropyltoluene)	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Dibromochloromethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
1,2-Dibromo-3-Chloropropane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Dibromomethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
1,2-Dichlorobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004

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 Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 343257

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Thu Sep-03-09 08:30 am

Report Date: 21-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	343257-007	343257-008	343257-009	343257-010	343257-011	343257-012
	Field Id:	TB083109	GP-4-34	GP-4-34D	GP-4-42	GP-1-31EB	GP-1-31
	Depth:						
	Matrix:	WATER	WATER	WATER	WATER	WATER	SOIL
	Sampled:	Aug-31-09 00:00	Sep-01-09 11:00	Sep-01-09 11:00	Sep-01-09 12:50	Sep-02-09 09:10	Sep-02-09 09:40
	Extracted:	Sep-13-09 17:00	Sep-15-09 09:42	Sep-15-09 09:44	Sep-15-09 09:46	Sep-15-09 09:48	Sep-13-09 15:46
	Analyzed:	Sep-13-09 23:22	Sep-15-09 13:08	Sep-15-09 13:34	Sep-15-09 14:00	Sep-15-09 14:27	Sep-13-09 21:33
	Units/RL:	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL	mg/kg RL
1,3-Dichlorobenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
1,4-Dichlorobenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Dichlorodifluoromethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
1,1-Dichloroethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
1,2-Dichloroethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
1,1-Dichloroethene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
cis-1,2-Dichloroethene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
trans-1,2-dichloroethene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
1,2-Dichloropropane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
1,3-Dichloropropane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
2,2-Dichloropropane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
1,1-Dichloropropene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
cis-1,3-Dichloropropene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
trans-1,3-dichloropropene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Ethylbenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Hexachlorobutadiene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
isopropylbenzene		U 5.00	16.6 5.00	16.3 5.00	U 5.00	U 5.00	U 0.004
Methylene Chloride		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.018
n-Propylbenzene		U 5.00	6.10 5.00	5.91 5.00	U 5.00	U 5.00	U 0.004
Styrene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
1,1,1,2-Tetrachloroethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
1,1,2,2-Tetrachloroethane		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Tetrachloroethylene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004
Toluene		U 5.00	4.92J 5.00	5.12 5.00	U 5.00	U 5.00	U 0.004
1,2,3-Trichlorobenzene		U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 0.004

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 343257

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
 Contact: Wendy Pennington
 Project Location: Roxana, IL 62084


Date Received in Lab: Thu Sep-03-09 08:30 am
 Report Date: 21-SEP-09
 Project Manager: Debbie Simmons

Project Name: 900 S. Central Avenue

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	343257-007	343257-008	343257-009	343257-010	343257-011	343257-012
VOAs by SW-846 8260B									TB083109	GP-4-34	GP-4-34D	GP-4-42	GP-1-31EB	GP-1-31
				WATER	Aug-31-09 00:00	Sep-13-09 17:00	Sep-13-09 23:22	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,4-Trichlorobenzene				WATER	Sep-01-09 11:00	Sep-15-09 09:42	Sep-15-09 13:08	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,1-Trichloroethane				WATER	Sep-01-09 11:00	Sep-15-09 09:42	Sep-15-09 13:08	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,2-Trichloroethane				WATER	Sep-01-09 11:00	Sep-15-09 09:42	Sep-15-09 13:08	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Trichloroethene				WATER	Sep-01-09 11:00	Sep-15-09 09:42	Sep-15-09 13:08	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Trichlorofluoromethane				WATER	Sep-01-09 11:00	Sep-15-09 09:42	Sep-15-09 13:08	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,3-Trichloropropane				WATER	Sep-01-09 11:00	Sep-15-09 09:42	Sep-15-09 13:08	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,4-Trimethylbenzene				WATER	Sep-01-09 11:00	Sep-15-09 09:42	Sep-15-09 13:08	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,3,5-Trimethylbenzene				WATER	Sep-01-09 11:00	Sep-15-09 09:42	Sep-15-09 13:08	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
o-Xylene				WATER	Sep-01-09 11:00	Sep-15-09 09:42	Sep-15-09 13:08	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
m,p-Xylenes				WATER	Sep-01-09 11:00	Sep-15-09 09:42	Sep-15-09 13:08	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Vinyl Acetate				WATER	Sep-01-09 11:00	Sep-15-09 09:42	Sep-15-09 13:08	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Vinyl Chloride				WATER	Sep-01-09 11:00	Sep-15-09 09:42	Sep-15-09 13:08	RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00

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 Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 343257

URS Corporation-St. Louis, St. Louis, MO

Project Name: 900 S. Central Avenue

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Thu Sep-03--09 08:30 am

Report Date: 21-SEP-09

Project Manager: Debbie Simmons



	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	343257-013	343257-014	343257-015	343257-016
Analysis Requested	GP-1-31D	GP-1-22.5	GP-1-34	GP-1-42	SOIL	SOIL	WATER	WATER	
	Sep-02-09 09:40	Sep-02-09 09:50	Sep-02-09 12:10	Sep-02-09 14:05					
Percent Moisture	Extracted:	Analized:	Units/RL:						
	Sep-03-09 17:49	Sep-03-09 17:50	% RL						
Percent Moisture	5.45	15.32	1.00	1.00					

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Managing Director, Texas



Certificate of Analysis Summary 343257

URS Corporation-St. Louis, St. Louis, MO




Project Id: Route 111 & Rand Ave Vicinity/2156197
Contact: Wendy Pennington
Project Location: Roxana, IL 62084
Date Received in Lab: Thu Sep-03-09 08:30 am
Report Date: 21-SEP-09
Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	343257-013	343257-014	343257-015	343257-016
	Field Id:	GP-1-31D	GP-1-22.5	GP-1-34	GP-1-42
Depth:					
Matrix:	SOIL	SOIL	WATER	WATER	WATER
Sampled:	Sep-02-09 09:40	Sep-02-09 09:50	Sep-02-09 12:10	Sep-02-09 14:05	Sep-02-09 14:05
Extracted:			Sep-04-09 12:09	Sep-04-09 12:18	Sep-04-09 12:18
Analyzed:			Sep-08-09 12:53	Sep-08-09 18:21	Sep-08-09 18:21
Units/RL:			mg/L RL	mg/L RL	mg/L RL
3,3-Dichlorobenzidine			U 0.010	U 0.010	U 0.010
2,4-Dichlorophenol			U 0.010	U 0.010	U 0.010
Diethyl Phthalate			U 0.005	U 0.005	U 0.005
Dimethyl Phthalate			U 0.005	U 0.005	U 0.005
2,4-Dimethylphenol			U 0.010	U 0.010	U 0.010
4,6-dinitro-2-methyl phenol			U 0.010	U 0.010	U 0.010
2,4-Dinitrophenol			U 0.010	U 0.010	U 0.010
2,4-Dinitrotoluene			U 0.010	U 0.010	U 0.010
2,6-Dinitrotoluene			U 0.010	U 0.010	U 0.010
di-n-Octyl Phthalate			U 0.005	U 0.005	U 0.005
Fluoranthene			U 0.005	U 0.005	U 0.005
Fluorene			U 0.005	U 0.005	U 0.005
Hexachlorobenzene			U 0.010	U 0.010	U 0.010
Hexachlorocyclopentadiene			U 0.010	U 0.010	U 0.010
Hexachloroethane			U 0.010	U 0.010	U 0.010
Indeno(1,2,3-c,d)Pyrene			U 0.005	U 0.005	U 0.005
Isophorone			U 0.010	U 0.010	U 0.010
2-Methylnaphthalene			U 0.005	U 0.005	U 0.005
2-methylphenol			U 0.010	U 0.010	U 0.010
3&4-Methylphenol			U 0.010	U 0.010	U 0.010
Naphthalene			U 0.005	U 0.005	U 0.005
2-Nitroaniline			U 0.010	U 0.010	U 0.010
3-Nitroaniline			U 0.010	U 0.010	U 0.010
4-Nitroaniline			U 0.021	U 0.020	U 0.020
Nitrobenzene			U 0.010	U 0.010	U 0.010

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Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 343257

URS Corporation--St. Louis, St. Louis, MO

Project Name: 900 S. Central Avenue

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Thu Sep-03-09 08:30 am

Report Date: 21-SEP-09

Project Manager: Debbie Simmons



Analysis Requested	Lab Id:	343257-013	343257-014	343257-015	343257-016
	Field Id:	GP-1-31D	GP-1-22.5	GP-1-34	GP-1-42
Depth:					
Matrix:	SOIL	SOIL	WATER	WATER	WATER
Sampled:	Sep-02-09 09:40	Sep-02-09 09:50	Sep-02-09 12:10	Sep-02-09 14:05	Sep-02-09 14:05
Extracted:			Sep-04-09 12:09	Sep-04-09 12:18	Sep-04-09 12:18
Analyzed:			Sep-08-09 12:53	Sep-08-09 18:21	Sep-08-09 18:21
Units/RL:			mg/L RL	mg/L RL	mg/L RL
2-Nitrophenol			U 0.010	U 0.010	U 0.010
4-Nitrophenol			U 0.010	U 0.010	U 0.010
N-Nitrosodi-n-Propylamine			U 0.010	U 0.010	U 0.010
N-Nitrosodiphenylamine			U 0.010	U 0.010	U 0.010
Pentachlorophenol			U 0.010	U 0.010	U 0.010
Phenanthrene			U 0.005	U 0.005	U 0.005
Phenol			U 0.010	U 0.010	U 0.010
Pyrene			U 0.005	U 0.005	U 0.005
Pyridine			U 0.010	U 0.010	U 0.010
2,4,5-Trichlorophenol			U 0.010	U 0.010	U 0.010
2,4,6-Trichlorophenol			U 0.010	U 0.010	U 0.010

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Carlos Castro

Managing Director, Texas



Certificate of Analysis Summary 343257

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197
 Contact: Wendy Pennington
 Project Location: Roxana, IL 62084

Date Received in Lab: Thu Sep-03-09 08:30 am
 Report Date: 21-SEP-09
 Project Manager: Debbie Simmons

Project Name: 900 S. Central Avenue

Analysis Requested	Lab Id:	343257-013	343257-014	343257-015	343257-016
	Field Id:	GP-1-31D	GP-1-22.5	GP-1-34	GP-1-42
	Depth:				
	Matrix:	SOIL	SOIL	WATER	WATER
	Sampled:	Sep-02-09 09:40	Sep-02-09 09:50	Sep-02-09 12:10	Sep-02-09 14:05
	Extracted:	Sep-13-09 15:48	Sep-13-09 15:50	Sep-13-09 17:01	Sep-13-09 17:05
	Analyzed:	Sep-13-09 21:59	Sep-13-09 22:25	Sep-13-09 23:48	Sep-14-09 01:33
	Units/RL:	mg/kg RL	mg/kg RL	ug/L RL	ug/L RL
Acetone		U 0.082	U 0.004	U 100	U 100
Benzene		U 0.004	U 0.004	U 5.00	U 5.00
Bromobenzene		U 0.004	U 0.004	U 5.00	U 5.00
Bromochloromethane		U 0.004	U 0.004	U 5.00	U 5.00
Bromodichloromethane		U 0.004	U 0.004	U 5.00	U 5.00
Bromoform		U 0.004	U 0.004	U 5.00	U 5.00
Bromomethane		U 0.004	U 0.004	U 5.00	U 5.00
2-Butanone		U 0.041	U 0.043	U 50.0	U 50.0
MTBE		U 0.004	U 0.004	U 5.00	1.92 J 5.00
tert-Butylbenzene		U 0.004	0.002 J 0.004	U 5.00	U 5.00
Sec-Butylbenzene		U 0.004	0.001 J 0.004	U 5.00	U 5.00
n-Butylbenzene		U 0.004	U 0.004	U 5.00	U 5.00
Carbon Disulfide		U 0.041	U 0.043	U 50.0	U 50.0
Carbon Tetrachloride		U 0.004	U 0.004	U 5.00	U 5.00
Chlorobenzene		U 0.004	U 0.004	U 5.00	U 5.00
Chloroethane		U 0.008	U 0.009	U 10.0	U 10.0
Chloroform		U 0.004	U 0.004	U 5.00	U 5.00
Chloromethane		U 0.008	U 0.009	U 10.0	U 10.0
2-Chlorotoluene		U 0.004	U 0.004	U 5.00	U 5.00
4-Chlorotoluene		U 0.004	U 0.004	U 5.00	U 5.00
p-Cymene (p-Isopropyltoluene)		U 0.004	U 0.004	U 5.00	U 5.00
1,2-Dibromo-3-Chloropropane		U 0.004	U 0.004	U 5.00	U 5.00
Dibromochloromethane		U 0.004	U 0.004	U 5.00	U 5.00
Dibromomethane		U 0.004	U 0.004	U 5.00	U 5.00
1,2-Dichlorobenzene		U 0.004	U 0.004	U 5.00	U 5.00

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Carlos Castro
 Managing Director, Texas



Certificate of Analysis Summary 343257

URS Corporation-St. Louis, St. Louis, MO

Project Name: 900 S. Central Avenue

Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Thu Sep-03-09 08:30 am

Report Date: 21-SEP-09

Project Manager: Debbie Simmons



Analysis Requested	Lab Id:	343257-013	343257-014	343257-015	343257-016
	Field Id:	GP-1-31D	GP-1-22.5	GP-1-34	GP-1-42
Depth:					
Matrix:	SOIL	SOIL	SOIL	WATER	WATER
Sampled:	Sep-02-09 09:40	Sep-02-09 09:50	Sep-02-09 12:10	Sep-02-09 14:05	
Extracted:	Sep-13-09 15:48	Sep-13-09 15:50	Sep-13-09 17:01	Sep-13-09 17:05	
Analyzed:	Sep-13-09 21:59	Sep-13-09 22:25	Sep-13-09 23:48	Sep-14-09 01:33	
Units/RL:	mg/kg RL	mg/kg RL	ug/L RL	ug/L RL	
1,3-Dichlorobenzene	U 0.004	U 0.004	U 5.00	U 5.00	
1,4-Dichlorobenzene	U 0.004	U 0.004	U 5.00	U 5.00	
Dichlorodifluoromethane	U 0.004	U 0.004	U 5.00	U 5.00	
1,2-Dichloroethane	U 0.004	U 0.004	U 5.00	U 5.00	
1,1-Dichloroethane	U 0.004	U 0.004	U 5.00	U 5.00	
trans-1,2-dichloroethene	U 0.004	U 0.004	U 5.00	U 5.00	
cis-1,2-Dichloroethene	U 0.004	U 0.004	U 5.00	U 5.00	
1,1-Dichloroethene	U 0.004	U 0.004	U 5.00	U 5.00	
2,2-Dichloropropane	U 0.004	U 0.004	U 5.00	U 5.00	
1,3-Dichloropropane	U 0.004	U 0.004	U 5.00	U 5.00	
1,2-Dichloropropane	U 0.004	U 0.004	U 5.00	U 5.00	
trans-1,3-dichloropropene	U 0.004	U 0.004	U 5.00	U 5.00	
1,1-Dichloropropene	U 0.004	U 0.004	U 5.00	U 5.00	
cis-1,3-Dichloropropene	U 0.004	U 0.004	U 5.00	U 5.00	
Ethylbenzene	U 0.004	U 0.004	U 5.00	U 5.00	
Hexachlorobutadiene	U 0.004	U 0.004	U 5.00	U 5.00	
isopropylbenzene	U 0.004	U 0.004	U 5.00	U 5.00	
Methylene Chloride	U 0.016	U 0.017	U 5.00	U 5.00	
n-Propylbenzene	U 0.004	U 0.004	U 5.00	U 5.00	
Styrene	U 0.004	U 0.004	U 5.00	U 5.00	
1,1,1,2-Tetrachloroethane	U 0.004	U 0.004	U 5.00	U 5.00	
1,1,2,2-Tetrachloroethane	U 0.004	U 0.004	U 5.00	U 5.00	
Tetrachloroethylene	U 0.004	U 0.004	U 5.00	U 5.00	
Toluene	U 0.004	U 0.004	U 5.00	U 5.00	
1,2,4-Trichlorobenzene	U 0.004	U 0.004	U 5.00	U 5.00	

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 343257

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Thu Sep-03-09 08:30 am

Report Date: 21-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	343257-013	343257-014	343257-015	343257-016
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL:	GP-1-31D Sep-02-09 09:40 SOIL mg/kg RL U 0.004	GP-1-22.5 Sep-02-09 09:50 SOIL mg/kg RL U 0.004	GP-1-34 Sep-02-09 12:10 WATER ug/L RL U 5.00	GP-1-42 Sep-02-09 14:05 WATER ug/L RL U 5.00
VOAs by SW-846 8260B					
1,2,3-Trichlorobenzene		U 0.004	U 0.004	U 5.00	U 5.00
1,1,2-Trichloroethane		U 0.004	U 0.004	U 5.00	U 5.00
1,1,1-Trichloroethane		U 0.004	U 0.004	U 5.00	U 5.00
Trichloroethene		U 0.004	U 0.004	U 5.00	U 5.00
Trichlorofluoromethane		U 0.004	U 0.004	U 5.00	U 5.00
1,2,3-Trichloropropane		U 0.004	U 0.004	U 5.00	U 5.00
1,2,4-Trimethylbenzene		U 0.004	U 0.004	U 5.00	U 5.00
1,3,5-Trimethylbenzene		U 0.004	U 0.004	U 5.00	U 5.00
Vinyl Acetate		U 0.041	U 0.043	U 50.0	U 50.0
Vinyl Chloride		U 0.002	U 0.002	U 2.00	U 2.00
o-Xylene		U 0.004	U 0.004	U 5.00	U 5.00
m,p-Xylenes		U 0.008	U 0.009	U 10.0	U 10.0

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Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : Percent Moisture

Client : URS Corporation-St. Louis

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GP-1-22.5	Sep. 2, 2009	Sep. 3, 2009				Sep.3, 2009	45	1	P
GP-1-31	Sep. 2, 2009	Sep. 3, 2009				Sep.3, 2009	45	1	P
GP-1-31D	Sep. 2, 2009	Sep. 3, 2009				Sep.3, 2009	45	1	P
GP-4-33	Aug. 31, 2009	Sep. 3, 2009				Sep.3, 2009	45	3	P
GP-4-22.5	Aug. 31, 2009	Sep. 3, 2009				Sep.3, 2009	45	3	P
GP-2-17	Aug. 31, 2009	Sep. 3, 2009				Sep.3, 2009	45	3	P
GP-2-23.5	Aug. 31, 2009	Sep. 3, 2009				Sep.3, 2009	45	3	P
GP-2-23.5D	Aug. 31, 2009	Sep. 3, 2009				Sep.3, 2009	45	3	P
GP-4-11	Aug. 31, 2009	Sep. 3, 2009				Sep.3, 2009	45	3	P



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : VOAs by SW-846 8260B

Client : URS Corporation-St. Louis

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GP-2-23.5	Aug. 31, 2009	Sep. 3, 2009	Sep. 13, 2009	14	13	Sep.13, 2009	14	13	P
GP-1-34	Sep. 2, 2009	Sep. 3, 2009				Sep.13, 2009	14	11	P
TB083109	Aug. 31, 2009	Sep. 3, 2009				Sep.13, 2009	14	13	P
GP-1-31D	Sep. 2, 2009	Sep. 3, 2009	Sep. 13, 2009	14	11	Sep.13, 2009	14	11	P
GP-2-17	Aug. 31, 2009	Sep. 3, 2009	Sep. 13, 2009	14	13	Sep.13, 2009	14	13	P
GP-4-33	Aug. 31, 2009	Sep. 3, 2009	Sep. 13, 2009	14	13	Sep.13, 2009	14	13	P
GP-1-31	Sep. 2, 2009	Sep. 3, 2009	Sep. 13, 2009	14	11	Sep.13, 2009	14	11	P
GP-1-31EB	Sep. 2, 2009	Sep. 3, 2009				Sep.15, 2009	14	13	P
GP-4-34D	Sep. 1, 2009	Sep. 3, 2009				Sep.15, 2009	14	14	P
GP-1-22.5	Sep. 2, 2009	Sep. 3, 2009	Sep. 13, 2009	14	11	Sep.13, 2009	14	11	P
GP-2-23.5D	Aug. 31, 2009	Sep. 3, 2009	Sep. 13, 2009	14	13	Sep.13, 2009	14	13	P
GP-4-34	Sep. 1, 2009	Sep. 3, 2009				Sep.15, 2009	14	14	P
GP-4-42	Sep. 1, 2009	Sep. 3, 2009				Sep.15, 2009	14	14	P
GP-4-22.5	Aug. 31, 2009	Sep. 3, 2009	Sep. 13, 2009	14	13	Sep.13, 2009	14	13	P
GP-1-42	Sep. 2, 2009	Sep. 3, 2009				Sep.14, 2009	14	12	P
GP-4-11	Aug. 31, 2009	Sep. 3, 2009	Sep. 13, 2009	14	13	Sep.13, 2009	14	13	P



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : SVOAs by SW-846 8270C

Client : URS Corporation-St. Louis

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GP-4-34D	Sep. 1, 2009	Sep. 3, 2009	Sep. 4, 2009	7	3	Sep.8, 2009	40	4	P
GP-4-42	Sep. 1, 2009	Sep. 3, 2009	Sep. 4, 2009	7	3	Sep.8, 2009	40	4	P
GP-4-34	Sep. 1, 2009	Sep. 3, 2009	Sep. 4, 2009	7	3	Sep.8, 2009	40	4	P
GP-1-42	Sep. 2, 2009	Sep. 3, 2009	Sep. 4, 2009	7	2	Sep.8, 2009	40	4	P
GP-1-34	Sep. 2, 2009	Sep. 3, 2009	Sep. 4, 2009	7	2	Sep.8, 2009	40	4	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
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12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343257,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771235

Sample: 537018-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/04/09 16:08

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.043	0.050	86	43-116	
2-Fluorophenol	0.032	0.050	64	21-100	
Nitrobenzene-d5	0.043	0.050	86	35-114	
Phenol-d6	0.021	0.050	42	10-94	
Terphenyl-D14	0.044	0.050	88	33-141	
2,4,6-Tribromophenol	0.043	0.050	86	10-123	

Lab Batch #: 771235

Sample: 537018-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/04/09 16:46

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.042	0.050	84	43-116	
2-Fluorophenol	0.032	0.050	64	21-100	
Nitrobenzene-d5	0.042	0.050	84	35-114	
Phenol-d6	0.022	0.050	44	10-94	
Terphenyl-D14	0.041	0.050	82	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

Lab Batch #: 771235

Sample: 537018-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/04/09 17:24

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.049	0.050	98	43-116	
2-Fluorophenol	0.036	0.050	72	21-100	
Nitrobenzene-d5	0.047	0.050	94	35-114	
Phenol-d6	0.024	0.050	48	10-94	
Terphenyl-D14	0.056	0.050	112	33-141	
2,4,6-Tribromophenol	0.040	0.050	80	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343257,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771432

Sample: 343132-003 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/08/09 11:40

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.023	0.050	46	21-100	
Nitrobenzene-d5	0.046	0.050	92	35-114	
Phenol-d6	0.018	0.050	36	10-94	
Terphenyl-D14	0.043	0.050	86	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

Lab Batch #: 771432

Sample: 343132-003 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/08/09 12:16

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.050	74	43-116	
2-Fluorophenol	0.026	0.050	52	21-100	
Nitrobenzene-d5	0.046	0.050	92	35-114	
Phenol-d6	0.020	0.050	40	10-94	
Terphenyl-D14	0.041	0.050	82	33-141	
2,4,6-Tribromophenol	0.042	0.050	84	10-123	

Lab Batch #: 771432

Sample: 343257-015 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/08/09 12:53

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.033	0.052	63	43-116	
2-Fluorophenol	0.030	0.052	58	21-100	
Nitrobenzene-d5	0.040	0.052	77	35-114	
Phenol-d6	0.014	0.052	27	10-94	
Terphenyl-D14	0.036	0.052	69	33-141	
2,4,6-Tribromophenol	0.040	0.052	77	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343257,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771432

Sample: 343257-015 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/08/09 13:29

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.040	0.053	75	43-116	
2-Fluorophenol	0.022	0.053	42	21-100	
Nitrobenzene-d5	0.048	0.053	91	35-114	
Phenol-d6	0.015	0.053	28	10-94	
Terphenyl-D14	0.042	0.053	79	33-141	
2,4,6-Tribromophenol	0.045	0.053	85	10-123	

Lab Batch #: 771432

Sample: 343257-015 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/08/09 14:05

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.036	0.053	68	43-116	
2-Fluorophenol	0.023	0.053	43	21-100	
Nitrobenzene-d5	0.044	0.053	83	35-114	
Phenol-d6	0.016	0.053	30	10-94	
Terphenyl-D14	0.040	0.053	75	33-141	
2,4,6-Tribromophenol	0.041	0.053	77	10-123	

Lab Batch #: 771432

Sample: 343257-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/08/09 16:31

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.034	0.050	68	43-116	
2-Fluorophenol	0.025	0.050	50	21-100	
Nitrobenzene-d5	0.040	0.050	80	35-114	
Phenol-d6	0.014	0.050	28	10-94	
Terphenyl-D14	0.038	0.050	76	33-141	
2,4,6-Tribromophenol	0.044	0.050	88	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343257,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771432

Sample: 343257-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/08/09 17:08

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.042	0.050	84	43-116	
2-Fluorophenol	0.026	0.050	52	21-100	
Nitrobenzene-d5	0.051	0.050	102	35-114	
Phenol-d6	0.017	0.050	34	10-94	
Terphenyl-D14	0.044	0.050	88	33-141	
2,4,6-Tribromophenol	0.053	0.050	106	10-123	

Lab Batch #: 771432

Sample: 343257-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/08/09 17:44

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.035	0.050	70	43-116	
2-Fluorophenol	0.021	0.050	42	21-100	
Nitrobenzene-d5	0.043	0.050	86	35-114	
Phenol-d6	0.013	0.050	26	10-94	
Terphenyl-D14	0.038	0.050	76	33-141	
2,4,6-Tribromophenol	0.045	0.050	90	10-123	

Lab Batch #: 771432

Sample: 343257-016 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/08/09 18:21

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.035	0.051	69	43-116	
2-Fluorophenol	0.021	0.051	41	21-100	
Nitrobenzene-d5	0.041	0.051	80	35-114	
Phenol-d6	0.012	0.051	24	10-94	
Terphenyl-D14	0.039	0.051	76	33-141	
2,4,6-Tribromophenol	0.042	0.051	82	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343257,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 772589

Sample: 537883-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/13/09 16:19

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0503	0.0500	101	58-152	
Dibromofluoromethane	0.0529	0.0500	106	74-126	
1,2-Dichloroethane-D4	0.0508	0.0500	102	80-120	
Toluene-D8	0.0505	0.0500	101	73-132	

Lab Batch #: 772589

Sample: 537883-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/13/09 17:11

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0541	0.0500	108	58-152	
Dibromofluoromethane	0.0518	0.0500	104	74-126	
1,2-Dichloroethane-D4	0.0508	0.0500	102	80-120	
Toluene-D8	0.0488	0.0500	98	73-132	

Lab Batch #: 772589

Sample: 343257-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/13/09 17:38

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0544	0.0500	109	58-152	
Dibromofluoromethane	0.0532	0.0500	106	74-126	
1,2-Dichloroethane-D4	0.0510	0.0500	102	80-120	
Toluene-D8	0.0499	0.0500	100	73-132	

Lab Batch #: 772589

Sample: 343257-003 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/13/09 18:04

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0539	0.0500	108	58-152	
Dibromofluoromethane	0.0528	0.0500	106	74-126	
1,2-Dichloroethane-D4	0.0518	0.0500	104	80-120	
Toluene-D8	0.0499	0.0500	100	73-132	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343257,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 772589

Sample: 343257-003 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/13/09 18:30

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0535	0.0500	107	58-152	
Dibromofluoromethane	0.0500	0.0500	100	74-126	
1,2-Dichloroethane-D4	0.0502	0.0500	100	80-120	
Toluene-D8	0.0503	0.0500	101	73-132	

Lab Batch #: 772589

Sample: 343257-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/13/09 19:23

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0640	0.0500	128	58-152	
Dibromofluoromethane	0.0540	0.0500	108	74-126	
1,2-Dichloroethane-D4	0.0547	0.0500	109	80-120	
Toluene-D8	0.0460	0.0500	92	73-132	

Lab Batch #: 772589

Sample: 343257-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/13/09 19:49

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0536	0.0500	107	58-152	
Dibromofluoromethane	0.0517	0.0500	103	74-126	
1,2-Dichloroethane-D4	0.0512	0.0500	102	80-120	
Toluene-D8	0.0480	0.0500	96	73-132	

Lab Batch #: 772589

Sample: 343257-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/13/09 20:15

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0505	0.0500	101	58-152	
Dibromofluoromethane	0.0544	0.0500	109	74-126	
1,2-Dichloroethane-D4	0.0557	0.0500	111	80-120	
Toluene-D8	0.0473	0.0500	95	73-132	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343257,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 772589

Sample: 343257-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/13/09 20:41

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0603	0.0500	121	58-152	
Dibromofluoromethane	0.0518	0.0500	104	74-126	
1,2-Dichloroethane-D4	0.0511	0.0500	102	80-120	
Toluene-D8	0.0491	0.0500	98	73-132	

Lab Batch #: 772589

Sample: 343257-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/13/09 21:07

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0593	0.0500	119	58-152	
Dibromofluoromethane	0.0522	0.0500	104	74-126	
1,2-Dichloroethane-D4	0.0510	0.0500	102	80-120	
Toluene-D8	0.0495	0.0500	99	73-132	

Lab Batch #: 772589

Sample: 343257-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/13/09 21:33

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0507	0.0500	101	58-152	
Dibromofluoromethane	0.0558	0.0500	112	74-126	
1,2-Dichloroethane-D4	0.0549	0.0500	110	80-120	
Toluene-D8	0.0474	0.0500	95	73-132	

Lab Batch #: 772589

Sample: 343257-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/13/09 21:59

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0523	0.0500	105	58-152	
Dibromofluoromethane	0.0548	0.0500	110	74-126	
1,2-Dichloroethane-D4	0.0522	0.0500	104	80-120	
Toluene-D8	0.0484	0.0500	97	73-132	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343257,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 772589

Sample: 343257-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/13/09 22:25

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0671	0.0500	134	58-152	
Dibromofluoromethane	0.0534	0.0500	107	74-126	
1,2-Dichloroethane-D4	0.0518	0.0500	104	80-120	
Toluene-D8	0.0501	0.0500	100	73-132	

Lab Batch #: 772603

Sample: 537898-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/13/09 15:28

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0517	0.0500	103	74-124	
Dibromofluoromethane	0.0497	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0490	0.0500	98	63-144	
Toluene-D8	0.0494	0.0500	99	80-117	

Lab Batch #: 772603

Sample: 537898-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/13/09 16:21

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0522	0.0500	104	74-124	
Dibromofluoromethane	0.0459	0.0500	92	75-131	
1,2-Dichloroethane-D4	0.0486	0.0500	97	63-144	
Toluene-D8	0.0488	0.0500	98	80-117	

Lab Batch #: 772603

Sample: 343257-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/13/09 23:22

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0499	0.0500	100	74-124	
Dibromofluoromethane	0.0460	0.0500	92	75-131	
1,2-Dichloroethane-D4	0.0486	0.0500	97	63-144	
Toluene-D8	0.0485	0.0500	97	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343257,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 772603

Sample: 343257-015 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/13/09 23:48

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0494	0.0500	99	74-124	
Dibromofluoromethane	0.0448	0.0500	90	75-131	
1,2-Dichloroethane-D4	0.0469	0.0500	94	63-144	
Toluene-D8	0.0489	0.0500	98	80-117	

Lab Batch #: 772603

Sample: 343257-015 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/14/09 00:15

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0498	0.0500	100	74-124	
Dibromofluoromethane	0.0467	0.0500	93	75-131	
1,2-Dichloroethane-D4	0.0482	0.0500	96	63-144	
Toluene-D8	0.0502	0.0500	100	80-117	

Lab Batch #: 772603

Sample: 343257-015 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/14/09 00:41

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0504	0.0500	101	74-124	
Dibromofluoromethane	0.0475	0.0500	95	75-131	
1,2-Dichloroethane-D4	0.0494	0.0500	99	63-144	
Toluene-D8	0.0503	0.0500	101	80-117	

Lab Batch #: 772603

Sample: 343257-016 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/14/09 01:33

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0487	0.0500	97	74-124	
Dibromofluoromethane	0.0449	0.0500	90	75-131	
1,2-Dichloroethane-D4	0.0490	0.0500	98	63-144	
Toluene-D8	0.0489	0.0500	98	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343257,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 773004

Sample: 538126-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 08:46

SURROGATE RECOVERY STUDY					
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0498	0.0500	100	74-124	
Dibromofluoromethane	0.0514	0.0500	103	75-131	
1,2-Dichloroethane-D4	0.0508	0.0500	102	63-144	
Toluene-D8	0.0496	0.0500	99	80-117	

Lab Batch #: 773004

Sample: 538126-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 09:38

SURROGATE RECOVERY STUDY					
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0516	0.0500	103	74-124	
Dibromofluoromethane	0.0501	0.0500	100	75-131	
1,2-Dichloroethane-D4	0.0508	0.0500	102	63-144	
Toluene-D8	0.0485	0.0500	97	80-117	

Lab Batch #: 773004

Sample: 344003-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 11:23

SURROGATE RECOVERY STUDY					
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0518	0.0500	104	74-124	
Dibromofluoromethane	0.0494	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0492	0.0500	98	63-144	
Toluene-D8	0.0503	0.0500	101	80-117	

Lab Batch #: 773004

Sample: 344003-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 11:49

SURROGATE RECOVERY STUDY					
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0517	0.0500	103	74-124	
Dibromofluoromethane	0.0495	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0504	0.0500	101	63-144	
Toluene-D8	0.0501	0.0500	100	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343257,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 773004

Sample: 343257-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 09/15/09 13:08	SURROGATE RECOVERY STUDY			
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0535	0.0500	107	74-124	
Dibromofluoromethane	0.0502	0.0500	100	75-131	
1,2-Dichloroethane-D4	0.0491	0.0500	98	63-144	
Toluene-D8	0.0497	0.0500	99	80-117	

Lab Batch #: 773004

Sample: 343257-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 09/15/09 13:34	SURROGATE RECOVERY STUDY			
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0528	0.0500	106	74-124	
Dibromofluoromethane	0.0500	0.0500	100	75-131	
1,2-Dichloroethane-D4	0.0504	0.0500	101	63-144	
Toluene-D8	0.0495	0.0500	99	80-117	

Lab Batch #: 773004

Sample: 343257-010 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 09/15/09 14:00	SURROGATE RECOVERY STUDY			
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0517	0.0500	103	74-124	
Dibromofluoromethane	0.0494	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0490	0.0500	98	63-144	
Toluene-D8	0.0498	0.0500	100	80-117	

Lab Batch #: 773004

Sample: 343257-011 / SMP

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 09/15/09 14:27	SURROGATE RECOVERY STUDY			
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0512	0.0500	102	74-124	
Dibromofluoromethane	0.0502	0.0500	100	75-131	
1,2-Dichloroethane-D4	0.0506	0.0500	101	63-144	
Toluene-D8	0.0478	0.0500	96	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 772589

Sample: 537883-1-BKS

Matrix: Solid

Date Analyzed: 09/13/2009

Date Prepared: 09/13/2009

Analyst: ZHO

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<0.020	0.500	0.601	120	50-150	
Benzene	<0.001	0.050	0.046	92	66-142	
Bromobenzene	<0.001	0.050	0.046	92	75-125	
Bromochloromethane	<0.001	0.050	0.046	92	73-125	
Bromodichloromethane	<0.001	0.050	0.049	98	75-125	
Bromoform	<0.001	0.050	0.051	102	75-125	
Bromomethane	<0.001	0.050	0.038	76	65-135	
2-Butanone	<0.010	0.500	0.542	108	75-125	
MTBE	<0.001	0.050	0.054	108	65-135	
tert-Butylbenzene	<0.001	0.050	0.057	114	75-125	
Sec-Butylbenzene	<0.001	0.050	0.057	114	75-125	
n-Butylbenzene	<0.001	0.050	0.056	112	75-125	
Carbon Disulfide	<0.010	0.500	0.420	84	65-135	
Carbon Tetrachloride	<0.001	0.050	0.050	100	62-125	
Chlorobenzene	<0.001	0.050	0.046	92	60-133	
Chloroethane	<0.002	0.050	0.047	94	65-135	
Chloroform	<0.001	0.050	0.049	98	74-125	
Chloromethane	<0.002	0.050	0.045	90	65-135	
2-Chlorotoluene	<0.001	0.050	0.051	102	73-125	
4-Chlorotoluene	<0.001	0.050	0.050	100	74-125	
p-Cymene (p-Isopropyltoluene)	<0.001	0.050	0.056	112	75-125	
1,2-Dibromo-3-Chloropropane	<0.001	0.050	0.057	114	59-125	
Dibromochloromethane	<0.001	0.050	0.049	98	73-125	
Dibromomethane	<0.001	0.050	0.046	92	69-127	
1,2-Dichlorobenzene	<0.001	0.050	0.049	98	75-125	
1,3-Dichlorobenzene	<0.001	0.050	0.048	96	75-125	
1,4-Dichlorobenzene	<0.001	0.050	0.047	94	75-125	
Dichlorodifluoromethane	<0.001	0.050	0.050	100	65-135	
1,2-Dichloroethane	<0.001	0.050	0.047	94	68-127	
1,1-Dichloroethane	<0.001	0.050	0.049	98	72-125	
trans-1,2-dichloroethene	<0.001	0.050	0.048	96	75-125	
cis-1,2-Dichloroethene	<0.001	0.050	0.048	96	75-125	
1,1-Dichloroethene	<0.001	0.050	0.049	98	59-172	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 772589

Sample: 537883-1-BKS

Matrix: Solid

Date Analyzed: 09/13/2009

Date Prepared: 09/13/2009

Analyst: ZHO

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
2,2-Dichloropropane	<0.001	0.050	0.056	112	75-125	
1,3-Dichloropropane	<0.001	0.050	0.047	94	75-125	
1,2-Dichloropropane	<0.001	0.050	0.046	92	74-125	
trans-1,3-dichloropropene	<0.001	0.050	0.048	96	66-125	
1,1-Dichloropropene	<0.001	0.050	0.048	96	75-125	
cis-1,3-Dichloropropene	<0.001	0.050	0.048	96	74-125	
Ethylbenzene	<0.001	0.050	0.050	100	75-125	
Hexachlorobutadiene	<0.001	0.050	0.053	106	75-125	
isopropylbenzene	<0.001	0.050	0.056	112	75-125	
Methylene Chloride	<0.004	0.050	0.048	96	75-125	
n-Propylbenzene	<0.001	0.050	0.053	106	75-125	
Styrene	<0.001	0.050	0.049	98	75-125	
1,1,1,2-Tetrachloroethane	<0.001	0.050	0.053	106	72-125	
1,1,1,2-Tetrachloroethane	<0.001	0.050	0.052	104	74-125	
Tetrachloroethylene	<0.001	0.050	0.047	94	71-125	
Toluene	<0.001	0.050	0.045	90	59-139	
1,2,4-Trichlorobenzene	<0.001	0.050	0.052	104	75-135	
1,2,3-Trichlorobenzene	<0.001	0.050	0.050	100	75-137	
1,1,2-Trichloroethane	<0.001	0.050	0.045	90	75-127	
1,1,1-Trichloroethane	<0.001	0.050	0.053	106	75-125	
Trichloroethene	<0.001	0.050	0.047	94	62-137	
Trichlorofluoromethane	<0.001	0.050	0.052	104	67-125	
1,2,3-Trichloropropane	<0.001	0.050	0.051	102	75-125	
1,2,4-Trimethylbenzene	<0.001	0.050	0.053	106	75-125	
1,3,5-Trimethylbenzene	<0.001	0.050	0.054	108	70-130	
Vinyl Acetate	<0.010	0.500	0.526	105	75-125	
Vinyl Chloride	<0.001	0.050	0.048	96	65-135	
o-Xylene	<0.001	0.050	0.052	104	75-125	
m,p-Xylenes	<0.002	0.100	0.099	99	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 772603

Sample: 537898-1-BKS

Matrix: Water

Date Analyzed: 09/13/2009

Date Prepared: 09/13/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	387	77	60-140	
Benzene	<1.00	50.0	49.9	100	66-142	
Bromobenzene	<1.00	50.0	52.1	104	75-125	
Bromochloromethane	<1.00	50.0	48.5	97	73-125	
Bromodichloromethane	<1.00	50.0	45.6	91	75-125	
Bromoform	<1.00	50.0	47.0	94	75-125	
Bromomethane	<1.00	50.0	49.2	98	70-130	
2-Butanone	<10.0	500	457	91	60-140	
MTBE	<1.00	50.0	50.6	101	65-135	
n-Butylbenzene	<1.00	50.0	51.2	102	75-125	
Sec-Butylbenzene	<1.00	50.0	55.0	110	75-125	
tert-Butylbenzene	<1.00	50.0	55.4	111	75-125	
Carbon Disulfide	<10.0	500	582	116	60-140	
Carbon Tetrachloride	<1.00	50.0	53.2	106	62-125	
Chlorobenzene	<1.00	50.0	50.1	100	60-133	
Chloroethane	<2.00	50.0	51.9	104	70-130	
Chloroform	<1.00	50.0	48.1	96	74-125	
Chloromethane	<2.00	50.0	47.1	94	70-130	
2-Chlorotoluene	<1.00	50.0	54.4	109	73-125	
4-Chlorotoluene	<1.00	50.0	54.4	109	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	57.2	114	75-125	
Dibromochloromethane	<1.00	50.0	46.7	93	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	43.1	86	59-125	
Dibromomethane	<1.00	50.0	46.4	93	69-127	
1,2-Dichlorobenzene	<1.00	50.0	50.8	102	75-125	
1,3-Dichlorobenzene	<1.00	50.0	50.9	102	75-125	
1,4-Dichlorobenzene	<1.00	50.0	49.9	100	75-125	
Dichlorodifluoromethane	<1.00	50.0	55.9	112	70-130	
1,1-Dichloroethane	<1.00	50.0	48.6	97	72-125	
1,2-Dichloroethane	<1.00	50.0	46.5	93	68-127	
1,1-Dichloroethene	<1.00	50.0	50.8	102	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	48.5	97	75-125	
trans-1,2-dichloroethene	<1.00	50.0	51.0	102	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 772603

Sample: 537898-1-BKS

Matrix: Water

Date Analyzed: 09/13/2009

Date Prepared: 09/13/2009

Analyst: ZHO

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	50.2	100	74-125	
1,3-Dichloropropane	<1.00	50.0	50.0	100	75-125	
2,2-Dichloropropane	<1.00	50.0	54.7	109	75-125	
1,1-Dichloropropene	<1.00	50.0	52.7	105	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	47.2	94	74-125	
trans-1,3-dichloropropene	<1.00	50.0	47.0	94	66-125	
Ethylbenzene	<1.00	50.0	54.5	109	75-125	
Hexachlorobutadiene	<1.00	50.0	53.1	106	75-125	
isopropylbenzene	<1.00	50.0	56.5	113	75-125	
Methylene Chloride	3.43	50.0	46.3	93	75-125	
n-Propylbenzene	<1.00	50.0	56.4	113	75-125	
Styrene	<1.00	50.0	50.0	100	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	54.7	109	72-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	53.1	106	74-125	
Tetrachloroethylene	<1.00	50.0	54.6	109	71-125	
Toluene	<1.00	50.0	49.7	99	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	51.9	104	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	55.6	111	75-135	
1,1,1-Trichloroethane	<1.00	50.0	51.8	104	75-125	
1,1,2-Trichloroethane	<1.00	50.0	48.5	97	75-127	
Trichloroethene	<1.00	50.0	48.8	98	62-137	
Trichlorofluoromethane	<1.00	50.0	49.3	99	67-125	
1,2,3-Trichloropropane	<1.00	50.0	50.8	102	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	56.8	114	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	58.9	118	70-125	
o-Xylene	<1.00	50.0	56.6	113	75-125	
m,p-Xylenes	<2.00	100	111	111	75-125	
Vinyl Acetate	<10.0	500	537	107	60-140	
Vinyl Chloride	<0.400	50.0	52.8	106	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 773004

Sample: 538126-1-BKS

Matrix: Water

Date Analyzed: 09/15/2009

Date Prepared: 09/15/2009

Analyst: CRW

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	562	112	60-140	
Benzene	<1.00	50.0	47.1	94	66-142	
Bromobenzene	<1.00	50.0	48.1	96	75-125	
Bromochloromethane	<1.00	50.0	47.6	95	73-125	
Bromodichloromethane	<1.00	50.0	49.3	99	75-125	
Bromoform	<1.00	50.0	52.9	106	75-125	
Bromomethane	<1.00	50.0	37.8	76	70-130	
2-Butanone	<10.0	500	512	102	60-140	
MTBE	<1.00	50.0	53.6	107	65-135	
n-Butylbenzene	<1.00	50.0	54.8	110	75-125	
Sec-Butylbenzene	<1.00	50.0	55.0	110	75-125	
tert-Butylbenzene	<1.00	50.0	55.7	111	75-125	
Carbon Disulfide	<10.0	500	469	94	60-140	
Carbon Tetrachloride	<1.00	50.0	48.7	97	62-125	
Chlorobenzene	<1.00	50.0	47.0	94	60-133	
Chloroethane	<2.00	50.0	39.5	79	70-130	
Chloroform	<1.00	50.0	47.7	95	74-125	
Chloromethane	<2.00	50.0	44.1	88	70-130	
2-Chlorotoluene	<1.00	50.0	50.8	102	73-125	
4-Chlorotoluene	<1.00	50.0	49.6	99	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	55.8	112	75-125	
Dibromochloromethane	<1.00	50.0	51.0	102	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	55.6	111	59-125	
Dibromomethane	<1.00	50.0	48.1	96	69-127	
1,2-Dichlorobenzene	<1.00	50.0	50.2	100	75-125	
1,3-Dichlorobenzene	<1.00	50.0	48.6	97	75-125	
1,4-Dichlorobenzene	<1.00	50.0	46.8	94	75-125	
Dichlorodifluoromethane	<1.00	50.0	49.2	98	70-130	
1,1-Dichloroethane	<1.00	50.0	47.0	94	72-125	
1,2-Dichloroethane	<1.00	50.0	47.5	95	68-127	
1,1-Dichloroethene	<1.00	50.0	48.3	97	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	48.3	97	75-125	
trans-1,2-dichloroethene	<1.00	50.0	48.0	96	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 773004

Sample: 538126-1-BKS

Matrix: Water

Date Analyzed: 09/15/2009

Date Prepared: 09/15/2009

Analyst: CRW

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	45.4	91	74-125	
1,3-Dichloropropane	<1.00	50.0	48.7	97	75-125	
2,2-Dichloropropane	<1.00	50.0	54.8	110	75-125	
1,1-Dichloropropene	<1.00	50.0	48.2	96	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	49.4	99	74-125	
trans-1,3-dichloropropene	<1.00	50.0	49.4	99	66-125	
Ethylbenzene	<1.00	50.0	50.0	100	75-125	
Hexachlorobutadiene	<1.00	50.0	52.7	105	75-125	
isopropylbenzene	<1.00	50.0	54.7	109	75-125	
Methylene Chloride	<1.00	50.0	45.8	92	75-125	
n-Propylbenzene	<1.00	50.0	51.7	103	75-125	
Styrene	<1.00	50.0	50.4	101	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	53.2	106	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	51.6	103	74-125	
Tetrachloroethylene	<1.00	50.0	48.7	97	71-125	
Toluene	<1.00	50.0	45.0	90	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	52.9	106	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	53.6	107	75-135	
1,1,1-Trichloroethane	<1.00	50.0	50.8	102	75-125	
1,1,2-Trichloroethane	<1.00	50.0	46.6	93	75-127	
Trichloroethene	<1.00	50.0	47.5	95	62-137	
Trichlorofluoromethane	<1.00	50.0	50.6	101	67-125	
1,2,3-Trichloropropane	<1.00	50.0	50.5	101	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	53.4	107	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	53.9	108	70-125	
o-Xylene	<1.00	50.0	52.5	105	75-125	
m,p-Xylenes	<2.00	100	100	100	75-125	
Vinyl Acetate	<10.0	500	488	98	60-140	
Vinyl Chloride	<0.400	50.0	48.0	96	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343257

Analyst: KAN

Lab Batch ID: 771235

Sample: 537018-1-BKS

Date Prepared: 09/04/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 09/04/2009

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

SVOAs by SW-846 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acenaphthene	<0.001	0.050	0.040	80	0.05	0.040	80	0	27-132	31	
Acenaphthylene	<0.001	0.050	0.039	78	0.05	0.039	78	0	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.001	0.050	0.038	76	0.05	0.037	74	3	5-115	25	
Anthracene	<0.001	0.050	0.040	80	0.05	0.040	80	0	47-145	25	
Benzo(a)anthracene	<0.001	0.050	0.042	84	0.05	0.043	86	2	33-143	25	
Benzo(a)pyrene	<0.001	0.050	0.040	80	0.05	0.040	80	0	65-135	25	
Benzo(b)fluoranthene	<0.001	0.050	0.041	82	0.05	0.040	80	2	24-159	25	
Benzo(k)fluoranthene	<0.001	0.050	0.041	82	0.05	0.039	78	5	25-125	25	
Benzo(g,h,i)perylene	<0.001	0.050	0.047	94	0.05	0.050	100	6	65-135	25	
Benzoic Acid	<0.009	0.150	0.085	57	0.15	0.064	43	28	30-115	40	
Benzyl Butyl Phthalate	<0.001	0.050	0.039	78	0.05	0.038	76	3	65-135	25	
bis(2-chloroethoxy) methane	<0.001	0.050	0.039	78	0.05	0.038	76	3	54-188	25	
bis(2-chloroethyl) ether	<0.001	0.050	0.037	74	0.05	0.037	74	0	65-135	25	
bis(2-chloroisopropyl) ether	<0.001	0.050	0.038	76	0.05	0.037	74	3	65-135	25	
bis(2-ethylhexyl) phthalate	<0.001	0.050	0.041	82	0.05	0.040	80	2	8-158	25	
4-Bromophenyl-phenylether	<0.001	0.050	0.039	78	0.05	0.039	78	0	65-135	25	
4-chloro-3-methylphenol	<0.001	0.050	0.039	78	0.05	0.038	76	3	16-129	33	
4-Chloroaniline	<0.001	0.050	0.045	90	0.05	0.044	88	2	9-128	25	
2-Chloronaphthalene	<0.001	0.050	0.041	82	0.05	0.042	84	2	65-135	25	
2-Chlorophenol	<0.001	0.050	0.038	76	0.05	0.037	74	3	16-116	40	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Analyst: KAN

Date Prepared: 09/04/2009

Date Analyzed: 09/04/2009

Lab Batch ID: 771235

Sample: 537018-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
4-Chlorophenyl Phenyl Ether		<0.001	0.050	0.039	78	0.05	0.039	78	0	65-135	25	
Chrysene		<0.001	0.050	0.039	78	0.05	0.039	78	0	65-135	25	
Dibenz(a,h)anthracene		<0.001	0.050	0.046	92	0.05	0.047	94	2	50-125	25	
Dibenzofuran		<0.001	0.050	0.041	82	0.05	0.040	80	2	52-125	25	
di-n-Butyl Phthalate		<0.003	0.050	0.043	86	0.05	0.041	82	5	49-135	50	
3,3-Dichlorobenzidine		<0.002	0.050	0.040	80	0.05	0.037	74	8	12-147	25	
2,4-Dichlorophenol		<0.001	0.050	0.039	78	0.05	0.038	76	3	65-135	25	
Diethyl Phthalate		<0.001	0.050	0.040	80	0.05	0.039	78	3	37-125	50	
Dimethyl Phthalate		<0.001	0.050	0.040	80	0.05	0.040	80	0	25-175	50	
2,4-Dimethylphenol		<0.001	0.050	0.038	76	0.05	0.037	74	3	32-119	25	
4,6-dinitro-2-methyl phenol		<0.001	0.050	0.040	80	0.05	0.040	80	0	2-181	25	
2,4-Dinitrophenol		<0.001	0.050	0.037	74	0.05	0.037	74	0	65-135	25	
2,4-Dinitrotoluene		<0.001	0.050	0.039	78	0.05	0.039	78	0	22-135	38	
2,6-Dinitrotoluene		<0.001	0.050	0.039	78	0.05	0.038	76	3	49-122	38	
di-n-Octyl Phthalate		<0.001	0.050	0.040	80	0.05	0.036	72	11	43-134	50	
Fluoranthene		<0.001	0.050	0.040	80	0.05	0.039	78	3	47-125	25	
Fluorene		<0.001	0.050	0.039	78	0.05	0.039	78	0	48-139	25	
Hexachlorobenzene		<0.001	0.050	0.039	78	0.05	0.039	78	0	46-133	25	
Hexachlorocyclopentadiene		<0.001	0.050	0.038	76	0.05	0.036	72	5	41-125	25	
Hexachlorocyclohexane		<0.001	0.050	0.039	78	0.05	0.038	76	3	25-153	25	

Relative Percent Difference RPD = 260% (C-F)/(C+F)



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 773004

Sample: 538126-1-BKS

Matrix: Water

Date Analyzed: 09/15/2009

Date Prepared: 09/15/2009

Analyst: CRW

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	45.4	91	74-125	
1,3-Dichloropropane	<1.00	50.0	48.7	97	75-125	
2,2-Dichloropropane	<1.00	50.0	54.8	110	75-125	
1,1-Dichloropropene	<1.00	50.0	48.2	96	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	49.4	99	74-125	
trans-1,3-dichloropropene	<1.00	50.0	49.4	99	66-125	
Ethylbenzene	<1.00	50.0	50.0	100	75-125	
Hexachlorobutadiene	<1.00	50.0	52.7	105	75-125	
isopropylbenzene	<1.00	50.0	54.7	109	75-125	
Methylene Chloride	<1.00	50.0	45.8	92	75-125	
n-Propylbenzene	<1.00	50.0	51.7	103	75-125	
Styrene	<1.00	50.0	50.4	101	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	53.2	106	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	51.6	103	74-125	
Tetrachloroethylene	<1.00	50.0	48.7	97	71-125	
Toluene	<1.00	50.0	45.0	90	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	52.9	106	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	53.6	107	75-135	
1,1,1-Trichloroethane	<1.00	50.0	50.8	102	75-125	
1,1,2-Trichloroethane	<1.00	50.0	46.6	93	75-127	
Trichloroethene	<1.00	50.0	47.5	95	62-137	
Trichlorofluoromethane	<1.00	50.0	50.6	101	67-125	
1,2,3-Trichloropropane	<1.00	50.0	50.5	101	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	53.4	107	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	53.9	108	70-125	
o-Xylene	<1.00	50.0	52.5	105	75-125	
m,p-Xylenes	<2.00	100	100	100	75-125	
Vinyl Acetate	<10.0	500	488	98	60-140	
Vinyl Chloride	<0.400	50.0	48.0	96	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Analyst: KAN

Date Analyzed: 09/04/2009

Lab Batch ID: 771235

Date Prepared: 09/04/2009

Sample: 537018-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

SVOAs by SW-846 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acenaphthene	<0.001	0.050	0.040	80	0.05	0.040	80	0	27-132	31	
Acenaphthylene	<0.001	0.050	0.039	78	0.05	0.039	78	0	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.001	0.050	0.038	76	0.05	0.037	74	3	5-115	25	
Anthracene	<0.001	0.050	0.040	80	0.05	0.040	80	0	47-145	25	
Benzo(a)anthracene	<0.001	0.050	0.042	84	0.05	0.043	86	2	33-143	25	
Benzo(a)pyrene	<0.001	0.050	0.040	80	0.05	0.040	80	0	65-135	25	
Benzo(b)fluoranthene	<0.001	0.050	0.041	82	0.05	0.040	80	2	24-159	25	
Benzo(k)fluoranthene	<0.001	0.050	0.041	82	0.05	0.039	78	5	25-125	25	
Benzo(g,h,i)perylene	<0.001	0.050	0.047	94	0.05	0.050	100	6	65-135	25	
Benzoic Acid	<0.009	0.150	0.085	57	0.15	0.064	43	28	30-115	40	
Benzyl Butyl Phthalate	<0.001	0.050	0.039	78	0.05	0.038	76	3	65-135	25	
bis(2-chloroethoxy) methane	<0.001	0.050	0.039	78	0.05	0.038	76	3	54-188	25	
bis(2-chloroethyl) ether	<0.001	0.050	0.037	74	0.05	0.037	74	0	65-135	25	
bis(2-chloroisopropyl) ether	<0.001	0.050	0.038	76	0.05	0.037	74	3	65-135	25	
bis(2-ethylhexyl) phthalate	<0.001	0.050	0.041	82	0.05	0.040	80	2	8-158	25	
4-Bromophenyl-phenylether	<0.001	0.050	0.039	78	0.05	0.039	78	0	65-135	25	
4-chloro-3-methylphenol	<0.001	0.050	0.039	78	0.05	0.038	76	3	16-129	33	
4-Chloroaniline	<0.001	0.050	0.045	90	0.05	0.044	88	2	9-128	25	
2-Chloronaphthalene	<0.001	0.050	0.041	82	0.05	0.042	84	2	65-135	25	
2-Chlorophenol	<0.001	0.050	0.038	76	0.05	0.037	74	3	16-116	40	

Relative Percent Difference RPD = $200 * [(C-F) / (C+F)]$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Analyst: KAN

Date Prepared: 09/04/2009

Date Analyzed: 09/04/2009

Lab Batch ID: 771235

Sample: 537018-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
SVOAs by SW-846 8270C											
4-Chlorophenyl Phenyl Ether	<0.001	0.050	0.039	78	0.05	0.039	78	0	65-135	25	
Chrysene	<0.001	0.050	0.039	78	0.05	0.039	78	0	65-135	25	
Dibenz(a,h)anthracene	<0.001	0.050	0.046	92	0.05	0.047	94	2	50-125	25	
Dibenzofuran	<0.001	0.050	0.041	82	0.05	0.040	80	2	52-125	25	
di-n-Butyl Phthalate	<0.003	0.050	0.043	86	0.05	0.041	82	5	49-135	50	
3,3-Dichlorobenzidine	<0.002	0.050	0.040	80	0.05	0.037	74	8	12-147	25	
2,4-Dichlorophenol	<0.001	0.050	0.039	78	0.05	0.038	76	3	65-135	25	
Diethyl Phthalate	<0.001	0.050	0.040	80	0.05	0.039	78	3	37-125	50	
Dimethyl Phthalate	<0.001	0.050	0.040	80	0.05	0.040	80	0	25-175	50	
2,4-Dimethylphenol	<0.001	0.050	0.038	76	0.05	0.037	74	3	32-119	25	
4,6-dinitro-2-methyl phenol	<0.001	0.050	0.040	80	0.05	0.040	80	0	2-181	25	
2,4-Dinitrophenol	<0.001	0.050	0.037	74	0.05	0.037	74	0	65-135	25	
2,4-Dinitrotoluene	<0.001	0.050	0.039	78	0.05	0.039	78	0	22-135	38	
2,6-Dinitrotoluene	<0.001	0.050	0.039	78	0.05	0.038	76	3	49-122	38	
di-n-Octyl Phthalate	<0.001	0.050	0.040	80	0.05	0.036	72	11	43-134	50	
Fluoranthene	<0.001	0.050	0.040	80	0.05	0.039	78	3	47-125	25	
Fluorene	<0.001	0.050	0.039	78	0.05	0.039	78	0	48-139	25	
Hexachlorobenzene	<0.001	0.050	0.039	78	0.05	0.039	78	0	46-133	25	
Hexachlorocyclopentadiene	<0.001	0.050	0.038	76	0.05	0.036	72	5	41-125	25	
Hexachloroethane	<0.001	0.050	0.039	78	0.05	0.038	76	3	25-153	25	

Relative Percent Difference RPD = $200 * [(C-F) / (C+F)]$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 343257

Analyst: KAN

Lab Batch ID: 771235

Sample: 537018-1-BKS

Units: mg/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 09/04/2009

Matrix: Water

Date Prepared: 09/04/2009

Batch #: 1

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
	Indeno(1,2,3-c,d)Pyrene	<0.001	0.050	0.045	90	0.05	0.046	92	2	27-160	25	
	Isophorone	<0.001	0.050	0.038	76	0.05	0.038	76	0	26-175	25	
	2-Methylnaphthalene	<0.001	0.050	0.041	82	0.05	0.040	80	2	25-175	25	
	2-methylphenol	<0.001	0.050	0.034	68	0.05	0.034	68	0	14-176	25	
	3&4-Methylphenol	<0.002	0.100	0.060	60	0.1	0.060	60	0	14-176	25	
	Naphthalene	<0.001	0.050	0.039	78	0.05	0.039	78	0	26-175	25	
	2-Nitroaniline	<0.001	0.050	0.040	80	0.05	0.040	80	0	65-135	25	
	3-Nitroaniline	<0.002	0.050	0.041	82	0.05	0.039	78	5	65-135	25	
	4-Nitroaniline	<0.001	0.050	0.035	70	0.05	0.044	88	23	65-135	25	
	Nitrobenzene	<0.001	0.050	0.039	78	0.05	0.039	78	0	65-135	25	
	2-Nitrophenol	<0.001	0.050	0.040	80	0.05	0.040	80	0	65-135	25	
	4-Nitrophenol	<0.001	0.050	0.024	48	0.05	0.025	50	4	10-80	50	
	N-Nitrosodi-n-Propylamine	<0.001	0.050	0.036	72	0.05	0.035	70	3	22-134	38	
	N-Nitrosodiphenylamine	<0.002	0.050	0.040	80	0.05	0.040	80	0	2-196	25	
	Pentachlorophenol	<0.001	0.050	0.039	78	0.05	0.039	78	0	17-117	50	
	Phenanthrene	<0.001	0.050	0.041	82	0.05	0.041	82	0	65-135	25	
	Phenol	<0.001	0.050	0.026	52	0.05	0.021	42	21	12-110	25	
	Pyrene	<0.001	0.050	0.039	78	0.05	0.039	78	0	23-152	31	
	Pyridine	<0.004	0.050	0.025	50	0.05	0.021	42	17	16-86	28	
	2,4,5-Trichlorophenol	<0.001	0.050	0.038	76	0.05	0.038	76	0	65-135	25	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Analyst: KAN

Date Prepared: 09/04/2009

Date Analyzed: 09/04/2009

Lab Batch ID: 771235

Sample: 537018-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		<0.001	0.050	0.040	80	0.05	0.040	80	0	65-135	25	
2,4,6-Trichlorophenol												

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$
 Blank Spike Recovery [D] = $100 * (C)/[B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$
 All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 343257

Lab Batch ID: 771432

Date Analyzed: 09/08/2009

Reporting Units: mg/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Water

QC- Sample ID: 343132-003 S

Date Prepared: 09/04/2009

Analyst: KAN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
SVOAs by SW-846 8270C											
Acenaphthene	<0.005	0.050	0.037	74	0.050	0.037	74	0	27-132	31	
Acenaphthylene	<0.005	0.050	0.038	76	0.050	0.036	72	5	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.021	0.050	0.033	66	0.050	0.034	68	3	5-115	25	
Anthracene	<0.005	0.050	0.039	78	0.050	0.039	78	0	47-145	25	
Benzo(a)anthracene	<0.005	0.050	0.039	78	0.050	0.039	78	0	33-143	25	
Benzo(a)pyrene	<0.005	0.050	0.039	78	0.050	0.040	80	3	65-135	25	
Benzo(b)fluoranthene	<0.005	0.050	0.041	82	0.050	0.039	78	5	24-159	25	
Benzo(k)fluoranthene	<0.005	0.050	0.038	76	0.050	0.041	82	8	25-125	25	
Benzo(g,h,i)perylene	<0.005	0.050	0.041	82	0.050	0.041	82	0	65-135	25	
Benzoic Acid	<0.031	0.150	0.108	72	0.150	0.118	79	9	30-115	40	
Benzyl Butyl Phthalate	<0.005	0.050	0.042	84	0.050	0.042	84	0	65-135	25	
bis(2-chloroethoxy) methane	<0.010	0.050	0.041	82	0.050	0.041	82	0	54-188	25	
bis(2-chloroethyl) ether	<0.010	0.050	0.036	72	0.050	0.036	72	0	65-135	25	
bis(2-chloroisopropyl) ether	<0.010	0.050	0.042	84	0.050	0.041	82	2	65-135	25	
bis(2-ethylhexyl) phthalate	0.002	0.050	0.046	88	0.050	0.046	88	0	8-158	25	
4-Bromophenyl-phenylether	<0.010	0.050	0.038	76	0.050	0.038	76	0	65-135	25	
4-chloro-3-methylphenol	<0.010	0.050	0.041	82	0.050	0.043	86	5	16-129	33	
4-Chloroaniline	<0.021	0.050	0.033	66	0.050	0.031	62	6	9-128	25	
2-Chloronaphthalene	<0.010	0.050	0.036	72	0.050	0.036	72	0	65-135	25	
2-Chlorophenol	<0.010	0.050	0.035	70	0.050	0.036	72	3	16-116	40	
4-Chlorophenyl Phenyl Ether	<0.010	0.050	0.040	80	0.050	0.040	80	0	65-135	25	
Chrysene	<0.005	0.050	0.038	76	0.050	0.039	78	3	65-135	25	
Dibenz(a,h)anthracene	<0.005	0.050	0.041	82	0.050	0.042	84	2	50-125	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*[(C-F)/(C+F)]

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch ID: 771432

Batch #: 1 Matrix: Water

Date Analyzed: 09/08/2009

QC- Sample ID: 343132-003 S

Date Prepared: 09/04/2009 Analyst: KAN

Reporting Units: mg/L

SVOAs by SW-846 8270C Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dibenzofuran	<0.010	0.050	0.040	80	0.050	0.040	80	0	52-125	25	
di-n-Butyl Phthalate	<0.005	0.050	0.043	86	0.050	0.044	88	2	49-135	50	
3,3-Dichlorobenzidine	<0.010	0.050	0.032	64	0.050	0.034	68	6	12-147	25	
2,4-Dichlorophenol	<0.010	0.050	0.039	78	0.050	0.039	78	0	65-135	25	
Diethyl Phthalate	<0.005	0.050	0.043	86	0.050	0.044	88	2	37-125	50	
Dimethyl Phthalate	<0.005	0.050	0.041	82	0.050	0.041	82	0	25-175	50	
2,4-Dimethylphenol	<0.010	0.050	0.038	76	0.050	0.037	74	3	32-119	25	
4,6-dinitro-2-methyl phenol	<0.010	0.050	0.038	76	0.050	0.039	78	3	2-181	25	
2,4-Dinitrophenol	<0.010	0.050	0.035	70	0.050	0.036	72	3	65-135	25	
2,4-Dinitrotoluene	<0.010	0.050	0.045	90	0.050	0.046	92	2	22-135	38	
2,6-Dinitrotoluene	<0.010	0.050	0.044	88	0.050	0.044	88	0	49-122	38	
di-n-Octyl Phthalate	<0.005	0.050	0.044	88	0.050	0.043	86	2	43-134	50	
Fluoranthene	<0.005	0.050	0.040	80	0.050	0.042	84	5	47-125	25	
Fluorene	<0.005	0.050	0.040	80	0.050	0.040	80	0	48-139	25	
Hexachlorobenzene	<0.010	0.050	0.038	76	0.050	0.037	74	3	46-133	25	
Hexachlorocyclopentadiene	<0.010	0.050	0.035	70	0.050	0.024	48	37	41-125	25	F
Hexachloroethane	<0.010	0.050	0.045	90	0.050	0.044	88	2	25-153	25	
Indeno(1,2,3-c,d)Pyrene	<0.005	0.050	0.042	84	0.050	0.027	54	43	27-160	25	F
Isophorone	<0.010	0.050	0.040	80	0.050	0.040	80	0	26-175	25	
2-Methylnaphthalene	<0.005	0.050	0.040	80	0.050	0.040	80	0	25-175	25	
2-methylphenol	<0.010	0.050	0.036	72	0.050	0.034	68	6	14-176	25	
3&4-Methylphenol	<0.010	0.100	0.069	69	0.100	0.067	67	3	14-176	25	
Naphthalene	<0.005	0.050	0.036	72	0.050	0.036	72	0	26-175	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343257

Lab Batch ID: 771432

Date Analyzed: 09/08/2009

Reporting Units: mg/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Water

QC- Sample ID: 343132-003 S

Date Prepared: 09/04/2009

Analyst: KAN

SVOAs by SW-846 8270C Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	2-Nitroaniline	<0.010	0.050	0.044	88	0.050	0.045	90	2	65-135	25
3-Nitroaniline	<0.010	0.050	0.045	90	0.050	0.049	98	9	65-135	25	
4-Nitroaniline	<0.021	0.050	0.048	96	0.050	0.053	106	10	65-135	25	
Nitrobenzene	<0.010	0.050	0.043	86	0.050	0.043	86	0	65-135	25	
2-Nitrophenol	<0.010	0.050	0.044	88	0.050	0.044	88	0	65-135	25	
4-Nitrophenol	<0.010	0.050	0.023	46	0.050	0.030	60	26	10-80	50	
N-Nitrosodi-n-Propylamine	<0.010	0.050	0.043	86	0.050	0.038	76	12	22-134	38	
N-Nitrosodiphenylamine	<0.010	0.050	0.036	72	0.050	0.036	72	0	2-196	25	
Pentachlorophenol	<0.010	0.050	0.033	66	0.050	0.037	74	11	17-117	50	
Phenanthrene	<0.005	0.050	0.038	76	0.050	0.038	76	0	65-135	25	
Phenol	<0.010	0.050	0.020	40	0.050	0.020	40	0	12-110	25	
Pyrene	<0.005	0.050	0.037	74	0.050	0.036	72	3	23-152	31	
Pyridine	<0.010	0.050	0.020	40	0.050	0.024	48	18	16-86	28	
2,4,5-Trichlorophenol	<0.010	0.050	0.040	80	0.050	0.041	82	2	65-135	25	
2,4,6-Trichlorophenol	<0.010	0.050	0.039	78	0.050	0.041	82	5	65-135	25	

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQ = Estimated Quantitation Limit

Work Order #: 343257

Lab Batch ID: 771432

Date Analyzed: 09/08/2009

Reporting Units: mg/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Water

QC- Sample ID: 343257-015 S

Date Prepared: 09/04/2009

Analyst: KAN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
SVOAs by SW-846 8270C											
Acenaphthene	<0.005	0.053	0.038	72	0.053	0.036	68	5	27-132	31	
Acenaphthylene	<0.005	0.053	0.038	72	0.053	0.035	66	8	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.021	0.053	0.018	34	0.053	0.027	51	40	5-115	25	F
Anthracene	<0.005	0.053	0.039	74	0.053	0.037	70	5	47-145	25	
Benzo(a)anthracene	<0.005	0.053	0.035	66	0.053	0.038	72	8	33-143	25	
Benzo(a)pyrene	<0.005	0.053	0.039	74	0.053	0.036	68	8	65-135	25	
Benzo(b)fluoranthene	<0.005	0.053	0.041	77	0.053	0.040	75	2	24-159	25	
Benzo(k)fluoranthene	<0.005	0.053	0.040	75	0.053	0.038	72	5	25-125	25	
Benzo(g,h,i)perylene	<0.005	0.053	0.041	77	0.053	0.039	74	5	65-135	25	
Benzoic Acid	<0.031	0.158	0.104	66	0.158	0.110	70	6	30-115	40	
Benzyl Butyl Phthalate	<0.005	0.053	0.043	81	0.053	0.041	77	5	65-135	25	
bis(2-chloroethoxy) methane	<0.010	0.053	0.042	79	0.053	0.039	74	7	54-188	25	
bis(2-chloroethyl) ether	<0.010	0.053	0.038	72	0.053	0.034	64	11	65-135	25	X
bis(2-chloroisopropyl) ether	<0.010	0.053	0.042	79	0.053	0.040	75	5	65-135	25	
bis(2-ethylhexyl) phthalate	<0.005	0.053	0.043	81	0.053	0.042	79	2	8-158	25	
4-Bromophenyl-phenylether	<0.010	0.053	0.038	72	0.053	0.037	70	3	65-135	25	
4-chloro-3-methylphenol	<0.010	0.053	0.042	79	0.053	0.040	75	5	16-129	33	
4-Chloroaniline	<0.021	0.053	0.025	47	0.053	0.022	42	13	9-128	25	
2-Chloronaphthalene	<0.010	0.053	0.037	70	0.053	0.035	66	6	65-135	25	
2-Chlorophenol	<0.010	0.053	0.036	68	0.053	0.035	66	3	16-116	40	
4-Chlorophenyl Phenyl Ether	<0.010	0.053	0.040	75	0.053	0.039	74	3	65-135	25	
Chrysene	<0.005	0.053	0.038	72	0.053	0.037	70	3	65-135	25	
Dibenz(a,h)anthracene	<0.005	0.053	0.042	79	0.053	0.040	75	5	50-125	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch ID: 771432

Batch #: 1 Matrix: Water

Date Analyzed: 09/08/2009

QC- Sample ID: 343257-015 S Analyst: KAN

Reporting Units: mg/L

SVOAs by SW-846 8270C Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Dibenzofuran	<0.010	0.053	0.041	77	0.053	0.038	72	8	52-125	25
di-n-Butyl Phthalate	<0.005	0.053	0.043	81	0.053	0.042	79	2	49-135	50	
3,3-Dichlorobenzidine	<0.010	0.053	0.007	13	0.053	0.004	8	55	12-147	25	XF
2,4-Dichlorophenol	<0.010	0.053	0.040	75	0.053	0.037	70	8	65-135	25	
Diethyl Phthalate	<0.005	0.053	0.044	83	0.053	0.042	79	5	37-125	50	
Dimethyl Phthalate	<0.005	0.053	0.042	79	0.053	0.040	75	5	25-175	50	
2,4-Dimethylphenol	<0.010	0.053	0.040	75	0.053	0.013	25	102	32-119	25	XF
4,6-dinitro-2-methyl phenol	<0.010	0.053	0.039	74	0.053	0.038	72	3	2-181	25	
2,4-Dinitrophenol	<0.010	0.053	0.037	70	0.053	0.035	66	6	65-135	25	
2,4-Dinitrotoluene	<0.010	0.053	0.046	87	0.053	0.044	83	4	22-135	38	
2,6-Dinitrotoluene	<0.010	0.053	0.044	83	0.053	0.043	81	2	49-122	38	
di-n-Octyl Phthalate	<0.005	0.053	0.044	83	0.053	0.043	81	2	43-134	50	
Fluoranthene	<0.005	0.053	0.042	79	0.053	0.040	75	5	47-125	25	
Fluorene	<0.005	0.053	0.041	77	0.053	0.039	74	5	48-139	25	
Hexachlorobenzene	<0.010	0.053	0.038	72	0.053	0.036	68	5	46-133	25	
Hexachlorocyclopentadiene	<0.010	0.053	0.024	45	0.053	0.026	49	8	41-125	25	
Hexachloroethane	<0.010	0.053	0.047	89	0.053	0.044	83	7	25-153	25	
Indeno(1,2,3-c,d)Pyrene	<0.005	0.053	0.043	81	0.053	0.040	75	7	27-160	25	
Isophorone	<0.010	0.053	0.041	77	0.053	0.039	74	5	26-175	25	
2-Methylnaphthalene	<0.005	0.053	0.041	77	0.053	0.039	74	5	25-175	25	
2-methylphenol	<0.010	0.053	0.035	66	0.053	0.034	64	3	14-176	25	
3&4-Methylphenol	<0.010	0.105	0.079	75	0.105	0.074	70	7	14-176	25	
Naphthalene	<0.005	0.053	0.037	70	0.053	0.034	64	8	26-175	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch ID: 771432

Batch #: 1 Matrix: Water

QC- Sample ID: 343257-015 S

Date Analyzed: 09/08/2009

Analyst: KAN

Date Prepared: 09/04/2009

Reporting Units: mg/L

Analytes	SVOAs by SW-846 8270C										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
2-Nitroaniline	<0.010	0.053	0.046	87	0.053	0.043	81	7	65-135	25	
3-Nitroaniline	<0.010	0.053	0.038	72	0.053	0.041	77	8	65-135	25	
4-Nitroaniline	<0.021	0.053	0.047	89	0.053	0.045	85	4	65-135	25	
Nitrobenzene	<0.010	0.053	0.044	83	0.053	0.041	77	7	65-135	25	
2-Nitrophenol	<0.010	0.053	0.045	85	0.053	0.042	79	7	65-135	25	
4-Nitrophenol	<0.010	0.053	0.026	49	0.053	0.029	55	11	10-80	50	
N-Nitrosodi-n-Propylamine	<0.010	0.053	0.039	74	0.053	0.039	74	0	22-134	38	
N-Nitrosodiphenylamine	<0.010	0.053	0.039	74	0.053	0.034	64	14	2-196	25	
Pentachlorophenol	<0.010	0.053	0.040	75	0.053	0.034	64	16	17-117	50	
Phenanthrene	<0.005	0.053	0.039	74	0.053	0.037	70	5	65-135	25	
Phenol	<0.010	0.053	0.018	34	0.053	0.019	36	5	12-110	25	
Pyrene	<0.005	0.053	0.037	70	0.053	0.036	68	3	23-152	31	
Pyridine	<0.010	0.053	0.011	21	0.053	0.012	23	9	16-86	28	
2,4,5-Trichlorophenol	<0.010	0.053	0.040	75	0.053	0.039	74	3	65-135	25	
2,4,6-Trichlorophenol	<0.010	0.053	0.042	79	0.053	0.040	75	5	65-135	25	

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 343257

Lab Batch ID: 772589

Date Analyzed: 09/13/2009

Reporting Units: mg/kg

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 343257-003 S

Date Prepared: 09/13/2009

Batch #: 1

Matrix: Soil

Analyst: ZHO

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
VOAs by SW-846 8260B											
Acetone	<0.102	0.502	0.172	34	0.498	0.167	34	3	50-150	21	X
Benzene	0.003	0.050	0.041	76	0.050	0.043	80	5	66-142	21	
Bromobenzene	<0.005	0.050	0.037	74	0.050	0.041	82	10	75-125	25	X
Bromochloromethane	<0.005	0.050	0.038	76	0.050	0.040	80	5	73-125	20	
Bromodichloromethane	<0.005	0.050	0.040	80	0.050	0.043	86	7	75-125	20	
Bromoform	<0.005	0.050	0.040	80	0.050	0.045	90	12	75-125	20	
Bromomethane	<0.005	0.050	0.029	58	0.050	0.028	56	4	65-135	20	X
2-Butanone	<0.051	0.502	0.268	53	0.498	0.264	53	2	75-125	20	X
MTBE	<0.005	0.050	0.044	88	0.050	0.045	90	2	65-135	20	
tert-Butylbenzene	<0.005	0.050	0.043	86	0.050	0.047	94	9	75-125	25	
Sec-Butylbenzene	<0.005	0.050	0.041	82	0.050	0.043	86	5	75-125	25	
n-Butylbenzene	<0.005	0.050	0.037	74	0.050	0.038	76	3	75-125	25	X
Carbon Disulfide	<0.051	0.502	0.303	60	0.498	0.313	63	3	65-135	20	X
Carbon Tetrachloride	<0.005	0.050	0.033	66	0.050	0.035	70	6	62-125	20	
Chlorobenzene	<0.005	0.050	0.035	70	0.050	0.038	76	8	60-133	21	
Chloroethane	<0.010	0.050	0.035	70	0.050	0.034	68	3	65-135	20	
Chloroform	<0.005	0.050	0.038	76	0.050	0.040	80	5	74-125	20	
Chloromethane	<0.010	0.050	0.031	62	0.050	0.031	62	0	65-135	20	X
2-Chlorotoluene	<0.005	0.050	0.040	80	0.050	0.042	84	5	73-125	25	
4-Chlorotoluene	<0.005	0.050	0.036	72	0.050	0.038	76	5	74-125	25	X
p-Cymene (p-Isopropyltoluene)	<0.005	0.050	0.039	78	0.050	0.042	84	7	75-125	25	
1,2-Dibromo-3-Chloropropane	<0.005	0.050	0.042	84	0.050	0.044	88	5	59-125	28	
Dibromochloromethane	<0.005	0.050	0.041	82	0.050	0.044	88	7	73-125	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQ_L = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 343257

Lab Batch ID: 772589

Date Analyzed: 09/13/2009

Reporting Units: mg/kg

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 343257-003 S

Date Prepared: 09/13/2009

Batch #: 1

Matrix: Soil

Analyst: ZHO

VOAs by SW-846 8260B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dibromomethane	<0.005	0.050	0.038	76	0.050	0.040	80	5	69-127	23	
1,2-Dichlorobenzene	<0.005	0.050	0.035	70	0.050	0.039	78	11	75-125	25	X
1,3-Dichlorobenzene	<0.005	0.050	0.034	68	0.050	0.036	72	6	75-125	25	X
1,4-Dichlorobenzene	<0.005	0.050	0.033	66	0.050	0.035	70	6	75-125	25	X
Dichlorodifluoromethane	<0.005	0.050	0.033	66	0.050	0.032	64	3	65-135	23	X
1,2-Dichloroethane	<0.005	0.050	0.039	78	0.050	0.040	80	3	68-127	20	
1,1-Dichloroethane	<0.005	0.050	0.038	76	0.050	0.040	80	5	72-125	20	
trans-1,2-dichloroethene	<0.005	0.050	0.035	70	0.050	0.037	74	6	75-125	20	X
cis-1,2-Dichloroethene	<0.005	0.050	0.037	74	0.050	0.040	80	8	75-125	20	X
1,1-Dichloroethene	<0.005	0.050	0.034	68	0.050	0.037	74	8	59-172	22	
2,2-Dichloropropane	<0.005	0.050	0.038	76	0.050	0.039	78	3	75-125	25	
1,3-Dichloropropane	<0.005	0.050	0.041	82	0.050	0.044	88	7	75-125	25	
1,2-Dichloropropane	<0.005	0.050	0.038	76	0.050	0.041	82	8	74-125	20	
trans-1,3-dichloropropene	<0.005	0.050	0.038	76	0.050	0.042	84	10	66-125	20	
1,1-Dichloropropene	<0.005	0.050	0.033	66	0.050	0.036	72	9	75-125	25	X
cis-1,3-Dichloropropene	<0.005	0.050	0.038	76	0.050	0.042	84	10	74-125	20	
Ethylbenzene	<0.005	0.050	0.037	74	0.050	0.040	80	8	75-125	20	X
Hexachlorobutadiene	<0.005	0.050	0.035	70	0.050	0.036	72	3	75-125	25	X
isopropylbenzene	<0.005	0.050	0.042	84	0.050	0.045	90	7	75-125	25	
Methylene Chloride	<0.020	0.050	0.036	72	0.050	0.038	76	5	75-125	35	X
n-Propylbenzene	<0.005	0.050	0.039	78	0.050	0.042	84	7	75-125	25	
Styrene	<0.005	0.050	0.037	74	0.050	0.039	78	5	75-125	51	X
1,1,1,2-Tetrachloroethane	<0.005	0.050	0.040	80	0.050	0.043	86	7	72-125	20	

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343257

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch ID: 772589

Batch #: 1 Matrix: Soil

Date Analyzed: 09/13/2009

Analyst: ZHO

Reporting Units: mg/kg

QC- Sample ID: 343257-003 S

VOAs by SW-846 8260B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<0.005	0.050	0.046	92	0.050	0.050	100	8	74-125	31	
Tetrachloroethylene	<0.005	0.050	0.033	66	0.050	0.036	72	9	71-125	20	X
Toluene	<0.005	0.050	0.034	68	0.050	0.038	76	11	59-139	21	
1,2,4-Trichlorobenzene	<0.005	0.050	0.031	62	0.050	0.031	62	0	75-135	25	X
1,2,3-Trichlorobenzene	<0.005	0.050	0.030	60	0.050	0.032	64	6	75-137	25	X
1,1,2-Trichloroethane	<0.005	0.050	0.039	78	0.050	0.042	84	7	75-127	20	
1,1,1-Trichloroethane	<0.005	0.050	0.037	74	0.050	0.038	76	3	75-125	20	X
Trichloroethene	<0.005	0.050	0.033	66	0.050	0.036	72	9	62-137	24	
Trichlorofluoromethane	<0.005	0.050	0.035	70	0.050	0.035	70	0	67-125	20	
1,2,3-Trichloropropane	<0.005	0.050	0.043	86	0.050	0.044	88	2	75-125	20	
1,2,4-Trimethylbenzene	0.002	0.050	0.040	76	0.050	0.044	84	10	75-125	25	
1,3,5-Trimethylbenzene	<0.005	0.050	0.040	80	0.050	0.043	86	7	70-130	25	
Vinyl Acetate	<0.051	0.502	0.460	92	0.498	0.462	93	0	75-125	20	
Vinyl Chloride	<0.002	0.050	0.033	66	0.050	0.032	64	3	65-135	20	X
o-Xylene	<0.005	0.050	0.039	78	0.050	0.043	86	10	75-125	20	
m,p-Xylenes	<0.010	0.100	0.072	72	0.100	0.080	80	11	75-125	20	X

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*[(C-F)/(C+F)]

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343257

Lab Batch ID: 772603

Date Analyzed: 09/14/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 343257-015 S

Date Prepared: 09/13/2009

Batch #: 1

Analyst: ZHO

Matrix: Water

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acetone	<100	500	228	46	500	217	43	5	60-140	21	X
Benzene	<5.00	50.0	34.3	69	50.0	35.0	70	2	66-142	21	
Bromobenzene	<5.00	50.0	42.7	85	50.0	43.9	88	3	75-125	20	
Bromochloromethane	<5.00	50.0	42.5	85	50.0	42.7	85	0	73-125	20	
Bromodichloromethane	<5.00	50.0	38.7	77	50.0	39.5	79	2	75-125	20	
Bromoform	<5.00	50.0	40.6	81	50.0	40.7	81	0	75-125	20	
Bromomethane	<5.00	50.0	21.3	43	50.0	32.4	65	41	70-130	20	XF
2-Butanone	<50.0	500	345	69	500	339	68	2	60-140	20	
MTBE	<5.00	50.0	49.1	98	50.0	49.8	100	1	65-135	20	
n-Butylbenzene	<5.00	50.0	40.9	82	50.0	41.3	83	1	75-125	20	
Sec-Butylbenzene	<5.00	50.0	42.5	85	50.0	42.8	86	1	75-125	20	
tert-Butylbenzene	<5.00	50.0	43.7	87	50.0	44.2	88	1	75-125	20	
Carbon Disulfide	<50.0	500	348	70	500	339	68	3	60-140	20	
Carbon Tetrachloride	<5.00	50.0	38.0	76	50.0	39.2	78	3	62-125	20	
Chlorobenzene	<5.00	50.0	39.6	79	50.0	39.8	80	1	60-133	21	
Chloroethane	<10.0	50.0	38.0	76	50.0	40.1	80	5	70-130	20	
Chloroform	<5.00	50.0	37.2	74	50.0	37.7	75	1	74-125	20	
Chloromethane	<10.0	50.0	37.6	75	50.0	37.7	75	0	70-130	20	
2-Chlorotoluene	<5.00	50.0	39.9	80	50.0	40.8	82	2	73-125	20	
4-Chlorotoluene	<5.00	50.0	42.2	84	50.0	43.0	86	2	74-125	20	
p-Cymene (p-Isopropyltoluene)	<5.00	50.0	45.2	90	50.0	45.5	91	1	75-125	20	
Dibromochloromethane	<5.00	50.0	34.8	70	50.0	35.0	70	1	73-125	20	X
1,2-Dibromo-3-Chloropropane	<5.00	50.0	41.0	82	50.0	41.6	83	1	59-125	28	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343257

Lab Batch ID: 772603

Date Analyzed: 09/14/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Water

QC- Sample ID: 343257-015 S Analyst: ZHO

Date Prepared: 09/13/2009

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dibromomethane	<5.00	50.0	38.0	76	50.0	38.8	78	2	69-127	23	
1,2-Dichlorobenzene	<5.00	50.0	42.1	84	50.0	42.5	85	1	75-125	20	
1,3-Dichlorobenzene	<5.00	50.0	43.9	88	50.0	44.7	89	2	75-125	20	
1,4-Dichlorobenzene	<5.00	50.0	38.7	77	50.0	39.4	79	2	75-125	20	
Dichlorodifluoromethane	<5.00	50.0	42.3	85	50.0	44.4	89	5	70-130	23	
1,1-Dichloroethane	<5.00	50.0	38.5	77	50.0	39.4	79	2	72-125	20	
1,2-Dichloroethane	<5.00	50.0	37.3	75	50.0	38.5	77	3	68-127	20	
1,1-Dichloroethene	<5.00	50.0	35.6	71	50.0	34.7	69	3	59-172	22	
cis-1,2-Dichloroethene	<5.00	50.0	39.6	79	50.0	40.5	81	2	75-125	20	
trans-1,2-dichloroethene	<5.00	50.0	34.0	68	50.0	34.6	69	2	75-125	20	X
1,2-Dichloropropane	<5.00	50.0	40.2	80	50.0	41.2	82	2	74-125	20	
1,3-Dichloropropane	<5.00	50.0	43.1	86	50.0	42.4	85	2	75-125	20	
2,2-Dichloropropane	<5.00	50.0	35.8	72	50.0	36.2	72	1	75-125	20	X
1,1-Dichloropropene	<5.00	50.0	36.5	73	50.0	37.3	75	2	75-125	20	X
cis-1,3-Dichloropropene	<5.00	50.0	33.9	68	50.0	34.8	70	3	74-125	20	X
trans-1,3-dichloropropene	<5.00	50.0	35.2	70	50.0	36.0	72	2	66-125	20	
Ethylbenzene	<5.00	50.0	41.4	83	50.0	41.4	83	0	75-125	20	
Hexachlorobutadiene	<5.00	50.0	43.4	87	50.0	43.5	87	0	75-125	20	
isopropylbenzene	<5.00	50.0	42.1	84	50.0	43.1	86	2	75-125	20	
Methylene Chloride	<5.00	50.0	34.3	69	50.0	34.2	68	0	75-125	35	X
n-Propylbenzene	<5.00	50.0	42.8	86	50.0	43.4	87	1	75-125	20	
Styrene	<5.00	50.0	39.5	79	50.0	39.3	79	1	75-125	51	
1,1,1,2-Tetrachloroethane	<5.00	50.0	42.7	85	50.0	42.2	84	1	72-125	20	

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 343257

Lab Batch ID: 772603

Date Analyzed: 09/14/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Water

QC- Sample ID: 343257-015 S

Analyst: ZHO

Date Prepared: 09/13/2009

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<5.00	50.0	43.8	88	50.0	44.3	89	1	74-125	31	
Tetrachloroethylene	<5.00	50.0	40.4	81	50.0	40.6	81	0	71-125	20	
Toluene	<5.00	50.0	35.1	70	50.0	35.8	72	2	59-139	21	
1,2,3-Trichlorobenzene	<5.00	50.0	47.7	95	50.0	47.5	95	0	75-137	20	
1,2,4-Trichlorobenzene	<5.00	50.0	48.5	97	50.0	48.9	98	1	75-135	20	
1,1,1-Trichloroethane	<5.00	50.0	38.7	77	50.0	39.3	79	2	75-125	20	
1,1,2-Trichloroethane	<5.00	50.0	42.7	85	50.0	42.8	86	0	75-127	20	
Trichloroethene	<5.00	50.0	36.5	73	50.0	37.3	75	2	62-137	24	
Trichlorofluoromethane	<5.00	50.0	38.8	78	50.0	34.3	69	12	67-125	20	
1,2,3-Trichloropropane	<5.00	50.0	45.7	91	50.0	46.5	93	2	75-125	20	
1,2,4-Trimethylbenzene	<5.00	50.0	42.4	85	50.0	43.2	86	2	75-125	20	
1,3,5-Trimethylbenzene	<5.00	50.0	43.0	86	50.0	43.6	87	1	70-125	20	
o-Xylene	<5.00	50.0	41.1	82	50.0	41.0	82	0	75-125	20	
m,p-Xylenes	<10.0	100	85.3	85	100	85.0	85	0	75-125	20	
Vinyl Acetate	<50.0	500	244	49	500	241	48	1	60-140	20	X
Vinyl Chloride	<2.00	50.0	38.9	78	50.0	40.4	81	4	75-125	20	

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 343257

Lab Batch ID: 773004

Date Analyzed: 09/15/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Water

QC- Sample ID: 344003-001 S Analyst: CRW

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acetone	<1.00	50.0	192	38	50.0	185	37	4	60-140	21	X
Benzene	<1.00	50.0	30.7	61	50.0	28.7	57	7	66-142	21	X
Bromobenzene	<5.00	50.0	44.7	89	50.0	43.3	87	3	75-125	20	
Bromochloromethane	<5.00	50.0	37.3	75	50.0	34.8	70	7	73-125	20	X
Bromodichloromethane	<1.00	50.0	45.4	91	50.0	42.1	84	8	75-125	20	
Bromoform	<1.00	50.0	49.4	99	50.0	47.5	95	4	75-125	20	
Bromomethane	<1.00	50.0	17.5	35	50.0	19.9	40	13	70-130	20	X
2-Butanone	<5.00	50.0	296	59	50.0	293	59	1	60-140	20	X
MTBE	<5.00	50.0	49.5	99	50.0	46.3	93	7	65-135	20	
n-Butylbenzene	<5.00	50.0	52.5	105	50.0	47.7	95	10	75-125	20	
Sec-Butylbenzene	<5.00	50.0	51.8	104	50.0	47.1	94	10	75-125	20	
tert-Butylbenzene	<5.00	50.0	52.5	105	50.0	48.4	97	8	75-125	20	
Carbon Disulfide	<5.00	50.0	144	29	50.0	132	26	9	60-140	20	X
Carbon Tetrachloride	<1.00	50.0	35.8	72	50.0	32.7	65	9	62-125	20	
Chlorobenzene	<1.00	50.0	39.1	78	50.0	36.8	74	6	60-133	21	
Chloroethane	<1.00	50.0	23.9	48	50.0	24.1	48	1	70-130	20	X
Chloroform	<1.00	50.0	39.6	79	50.0	36.5	73	8	74-125	20	X
Chloromethane	<1.00	50.0	20.5	41	50.0	21.4	43	4	70-130	20	X
2-Chlorotoluene	<5.00	50.0	44.8	90	50.0	42.2	84	6	73-125	20	
4-Chlorotoluene	<5.00	50.0	46.0	92	50.0	43.7	87	5	74-125	20	
p-Cymene (p-Isopropyltoluene)	<5.00	50.0	52.9	106	50.0	48.5	97	9	75-125	20	
Dibromochloromethane	<1.00	50.0	42.3	85	50.0	40.3	81	5	73-125	20	
1,2-Dibromo-3-Chloropropane	<5.00	50.0	54.5	109	50.0	52.2	104	4	59-125	28	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Project Name: 900 S. Central Avenue

Work Order #: 343257

Lab Batch ID: 773004

Date Analyzed: 09/15/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Water

Analyst: CRW

QC-Sample ID: 344003-001 S

Date Prepared: 09/15/2009

Analytes	VOAs by SW-846 8260B										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dibromomethane	<5.00	50.0	36.0	72	50.0	33.9	68	6	69-127	23	X
1,2-Dichlorobenzene	<1.00	50.0	47.4	95	50.0	44.4	89	7	75-125	20	
1,3-Dichlorobenzene	<1.00	50.0	48.9	98	50.0	46.3	93	5	75-125	20	
1,4-Dichlorobenzene	<1.00	50.0	43.2	86	50.0	40.5	81	6	75-125	20	
Dichlorodifluoromethane	<5.00	50.0	31.4	63	50.0	32.1	64	2	70-130	23	X
1,1-Dichloroethane	<1.00	50.0	38.2	76	50.0	35.3	71	8	72-125	20	X
1,2-Dichloroethane	<1.00	50.0	37.8	76	50.0	35.3	71	7	68-127	20	
1,1-Dichloroethene	<1.00	50.0	32.2	64	50.0	28.9	58	11	59-172	22	X
cis-1,2-Dichloroethene	<5.00	50.0	36.9	74	50.0	34.9	70	6	75-125	20	X
trans-1,2-dichloroethene	<1.00	50.0	26.9	54	50.0	25.1	50	7	75-125	20	X
1,2-Dichloropropane	<1.00	50.0	38.8	78	50.0	36.6	73	6	74-125	20	X
1,3-Dichloropropane	<5.00	50.0	43.6	87	50.0	42.1	84	4	75-125	20	
2,2-Dichloropropane	<5.00	50.0	40.9	82	50.0	37.5	75	9	75-125	20	
1,1-Dichloropropene	<5.00	50.0	31.2	62	50.0	28.7	57	8	75-125	20	X
cis-1,3-Dichloropropene	<1.00	50.0	36.5	73	50.0	35.0	70	4	74-125	20	X
trans-1,3-dichloropropene	<1.00	50.0	36.5	73	50.0	35.0	70	4	66-125	20	
Ethylbenzene	<1.00	50.0	40.5	81	50.0	38.1	76	6	75-125	20	
Hexachlorobutadiene	<5.00	50.0	49.8	100	50.0	43.8	88	13	75-125	20	
isopropylbenzene	<5.00	50.0	48.4	97	50.0	45.2	90	7	75-125	20	
Methylene Chloride	<10.0	50.0	29.9	60	50.0	28.0	56	7	75-125	35	X
n-Propylbenzene	<5.00	50.0	47.4	95	50.0	44.7	89	6	75-125	20	
Styrene	<5.00	50.0	40.2	80	50.0	38.9	78	3	75-125	51	
1,1,1,2-Tetrachloroethane	<5.00	50.0	45.8	92	50.0	42.4	85	8	72-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 343257

Lab Batch ID: 773004

Date Analyzed: 09/15/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC- Sample ID: 344003-001 S

Date Prepared: 09/15/2009

Batch #: 1

Analyst: CRW

Matrix: Water

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<1.00	50.0	49.6	99	50.0	48.4	97	2	74-125	31	
Tetrachloroethylene	<1.00	50.0	35.0	70	50.0	32.7	65	7	71-125	20	X
Toluene	<1.00	50.0	31.5	63	50.0	29.3	59	7	59-139	21	
1,2,3-Trichlorobenzene	<5.00	50.0	52.0	104	50.0	46.8	94	11	75-137	20	
1,2,4-Trichlorobenzene	<5.00	50.0	51.9	104	50.0	46.3	93	11	75-135	20	
1,1,1-Trichloroethane	<1.00	50.0	40.6	81	50.0	37.4	75	8	75-125	20	
1,1,2-Trichloroethane	<1.00	50.0	42.9	86	50.0	40.7	81	5	75-127	20	
Trichloroethene	<1.00	50.0	34.4	69	50.0	31.4	63	9	62-137	24	
Trichlorofluoromethane	<5.00	50.0	32.5	65	50.0	33.5	67	3	67-125	20	X
1,2,3-Trichloropropane	<5.00	50.0	52.5	105	50.0	51.6	103	2	75-125	20	
1,2,4-Trimethylbenzene	<5.00	50.0	46.6	93	50.0	43.5	87	7	75-125	20	
1,3,5-Trimethylbenzene	<5.00	50.0	46.1	92	50.0	42.9	86	7	70-125	20	
o-Xylene	<1.00	50.0	39.0	78	50.0	36.9	74	6	75-125	20	X
m,p-Xylenes	<2.00	100	78.8	79	100	74.5	75	6	75-125	20	
Vinyl Acetate	<50.0	500	242	48	500	227	45	6	60-140	20	X
Vinyl Chloride	<1.00	50.0	25.5	51	50.0	27.1	54	6	75-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: 900 S. Central Avenue

Work Order #: 343257

Lab Batch #: 770971

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 09/03/2009

Date Prepared: 09/03/2009

Analyst: ALA

QC- Sample ID: 343263-002 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	5.24	6.01	14	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

Shell Oil Products Chain Of Custody Record



LAB (LOCATION)
 4143 Greenbrier Dr., Stafford, TX 77477
 XENCO BIL-281-210-4200-FAK-281-240-0280
 CALSCIENCE TEST AMERICA SPL OTHER

Please Check Appropriate Box:
 ENV. SERVICES MOTIVA RETAIL SHELL RETAIL
 MOTIVA SPECIAL CONSULTANT LUBES
 SHELL PIPELINE OTHER

Print Bill To Contact Name: KEVIN DYER
 INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
 DATE: 8/31/09
 PO # _____ \$AP # _____
 PAGE: 1 of 2

CONSULTANT COMPANY: URS CORPORATION - FIELD OFFICE
 ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300
 CITY: ST. LOUIS, MISSOURI 63110
 STATE: ILLINOIS 62048
 CONSULTANT PROJECT NAME / NO.: Route 111 & Rand Ave Visibility / 21551979
 CONSULTANT PROJECT CONTACT (Report): WENDY PENNINGTON
 SALES REPRESENTATIVE (Print): Mike Corbett

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____ EDD _____
 COOLER #2 2-3°C
 TEMPERATURE ON RECEIPT °C Cooler #1 20°C Cooler #3 _____
 RESULTS NEEDED ON WEEKEND

SPECIAL INSTRUCTIONS OR NOTES:
 Please include "J" values on Level 2 Reports
 Please provide sample receipt upon login.
 SHELL CONTRACT RATE APPLIES

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE				NO. OF CONT.	LAB USE ONLY	PID (ppm)	Laboratory Notes	
	GP-4-11	GP-4-22.5	DATE	TIME		HCL	HNO3	H2SO4	NONE					OTHER
	GP-4-11	GP-4-22.5	8/31/09	1205	soil									
	GP-4-22.5	GP-4-33		1215										
	GP-4-33	GP-4-33-MS		1225										
	GP-4-33	GP-4-33-MS D		1225										
	GP-2-17	GP-2-23.5 D		1630										
	GP-2-23.5	GP-2-23.5		1650										
	TB089109													
	GP-4-34				water									
			9/1/09	1100	water									

Requested by (Signature): *Mike Corbett* Date: 9/2/09 Time: 1630
 Requisitioned by (Signature): _____ Date: _____ Time: _____
 Requisitioned by (Signature): _____ Date: 9/13/09 Time: 0830

Requested by (Signature): *Kevin Dyer*
 Requisitioned by (Signature): _____
 Requisitioned by (Signature): _____

Shell Oil Products Chain of Custody Record



LAB (LOCATION)
 416 Greentree Dr., Slatford, TX 77477
 XENCO (PHONE) 281-252-6420, FAX: 281-252-6420

- CALSCIENCE
- TEST AMERICA
- SPL
- OTHER

- Please Check Appropriate Box:
- ENV. SERVICES
 - MOTIVA RETAIL
 - MOTIVA SOACM
 - SHELL PIPELINE
 - SHELL RETAIL
 - CONSULTANT
 - LUBES
 - OTHER

Print Bill To Contact Name: KEVIN DYER
 DATE: 9/1/09
 INCIDENT # (ENV. SERVICES): 9 7 2 1 6 6 4 0
 CHECK IF NO INCIDENT # APPLIES
 PO # 3 4 0 0 6 1
 PAGE: 2 of 2

CONSULTANT COMPANY: URS CORPORATION - FIELD OFFICE
 ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300
 CITY: ST. LOUIS, MISSOURI 63110
 STATE: MISSOURI
 TELEPHONE: OFF: 314-743-4186 FAX: OFF: 314-743-4166
 CELL: 314-482-8928 CELL: 314-482-8928
 EMAIL: wendy_pennington@urscorp.com
 TURNAROUND TIME (CALENDAR DAYS): 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND
 DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) EDD
 TEMPERATURE ON RECEIPT C° Cooler #1 Cooler #2
 SPECIAL INSTRUCTIONS OR NOTES: SHELL CONTRACT RATE APPLIES

900 S. CENTRAL AVENUE, ROXANA, ILLINOIS 62084
 CONSULTANT PROJECT NAME (NO. SAMPLE NUMBER) (PPM):
 WENDY PENNINGTON
 ROXAN 111 & Rand Ave Vicinity / 21661979
 Mike Corbett

LAB USE ONLY	FIELD SAMPLE IDENTIFICATION		SAMPLING		MATRIX	PRESERVATIVE			NO. OF CONT.	VOC 8260B	SVOC/PAH 8270B	moisture	PID (ppm)	Laboratory Notes
	DATE	TIME	DATE	TIME		HCL	HN03	H2B04						
	GP-4-34-D		9/1/09	1100	water	X				X	X			
	GP-4-42		9/1/09	1250	water	X				X	X			
	GP-1-31EB		9/2/09	0910	water	X				X	X			
	GP-1-31		0940		soil	X				X	X			
	GP-1-31D		0940		soil	X				X	X			
	GP-1-22.5		0950		soil	X				X	X			
	GP-1-34		1210		water	X				X	X			
	GP-1-34MS		1210		water	X				X	X			
	GP-1-34 MSD		1210		water	X				X	X			
	GP-1-42		1405		water	X				X	X			

Requested by (Signature): *Mike Corbett*
 Date: 9/2/09
 Time: 1630

Received by (Signature): *Paul Swaney*
 Date: 9/3/09
 Time: 0830

Received by (Signature): *Paul Swaney*
 Date: 9/2/09
 Time: 1630

RECEIVED BY (SIGNATURE): *Paul Swaney*
 DATE: 9/2/09
 TIME: 1630



Prelogin / Nonconformance Report - Sample Log-In

Client: URS CORPORATION
 Date/Time: 09/03/09
 Lab ID #: 343257
 Initials: [Signature]

[Signature]

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	<u>Yes</u>	No		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	<u>No</u>		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No. <u>2120</u>	Cooler 2 No. <u>276</u>	Cooler 3 No. <u>1516</u>	Cooler 4 No.	Cooler 5 No.
<u>35</u> lbs <u>2.0</u> °C	<u>17</u> lbs <u>2.3</u> °C	<u>14</u> lbs <u>3.0</u> °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: (004) Missing VOA's sample, (018) VOA's has no sample ID (013) VOA's has no sample ID, but

Corrective Action Taken: they comes in one plastic wrap (Ferrarese) one vial was labeled GP-1-31. but all vials came together - numbered as 343257-012 + 343257-013. Missing VOA's (Ferrarese) shipped 9/3/09, arrived 9/4/09.

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 343431

Reviewer: Tony Sedlacek

Date Reviewed: 1/18/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
GWP-21-34EB	TB090309
GWP-21-34	GWP-21-42
GW-21-42D	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative did not indicate any problems or discrepancies were encountered.

The cooler receipt form indicated that the COC indicated that two trips were shipped and only one was received by the laboratory. Sufficient sample volume was available for the requested analysis. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
GW-21-42	GW-21-42D

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

Analytical Report 343431

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/21561979

21-SEP-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),

South Carolina(96031001), Louisiana(04154), Georgia(917)



21-SEP-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **343431**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 343431. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 343431 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro

Managing Director, Texas

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Sample Cross Reference 343431



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GWP-21-34EB	W	Sep-03-09 09:20		343431-001
TB090309	W	Sep-03-09 00:00		343431-002
GWP-21-34	W	Sep-03-09 11:05		343431-003
GWP-21-42	W	Sep-03-09 13:00		343431-004
GWP-21-42D	W	Sep-03-09 13:00		343431-005



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route 111 & Rand Ave Vic

Work Order Number: 343431

Report Date: 21-SEP-09

Date Received: 09/04/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-771627 SVOCs by SW-846 8270C

None

Batch: LBA-773004 VOAs by SW-846 8260B

Trichlorofluoromethane recovered below QC limits in the Matrix Spike. 1,1-Dichloropropene, 2-Butanone, Acetone, Benzene, Bromomethane, Carbon Disulfide, Chloroethane, Chloromethane, Dichlorodifluoromethane, Methylene Chloride, Tetrachloroethylene, Vinyl Acetate, Vinyl Chloride, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, trans-1,2-dichloroethene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloropropane, Bromochloromethane, Chloroform, Dibromomethane, o-Xylene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 343431-003, -002, -005, -001, -004.

The Laboratory Control Sample for Bromomethane, Acetone, Methylene Chloride, 1,1-Dichloroethane, 1,2-Dichloropropane, cis-1,2-Dichloroethene, Bromochloromethane, Carbon Disulfide, Vinyl Acetate, Benzene, Tetrachloroethylene, Chloromethane, cis-1,3-Dichloropropene, Chloroform, Trichlorofluoromethane, 1,1-Dichloroethene, Dibromomethane, o-Xylene, Dichlorodifluoromethane, trans-1,2-dichloroethene, 2-Butanone, Vinyl Chloride, Chloroethane, 1,1-Dichloropropene is within laboratory Control Limits



Certificate of Analysis Summary 343431

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Fri Sep-04-09 08:45 am

Report Date: 21-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	343431-001	343431-002	343431-003	343431-004	343431-005
SVOAs by SW-846 8270C		GWP-21-34EB		WATER	Sep-03-09 09:20	Sep-05-09 08:24	Sep-09-09 15:49	mg/L RL	U 0.005	U 0.005	mg/L RL	mg/L RL	U 0.005
Acenaphthene									U 0.005				U 0.005
Acenaphthylene									U 0.005				U 0.005
Aniline (Phenylamine, Aminobenzene)									U 0.020				U 0.020
Anthracene									U 0.005				U 0.005
Benzo(a)anthracene									U 0.005				U 0.005
Benzo(a)pyrene									U 0.005				U 0.005
Benzo(b)fluoranthene									U 0.005				U 0.005
Benzo(k)fluoranthene									U 0.005				U 0.005
Benzo(g,h,i)perylene									U 0.005				U 0.005
Benzoic Acid									U 0.030				U 0.030
Benzyl Butyl Phthalate									U 0.005				U 0.005
bis(2-chloroethoxy) methane									U 0.010				U 0.010
bis(2-chloroethyl) ether									U 0.010				U 0.010
bis(2-chloroisopropyl) ether									U 0.010				U 0.010
bis(2-ethylhexyl) phthalate									U 0.005				U 0.005
4-Bromophenyl-phenylether									U 0.010				U 0.010
4-chloro-3-methylphenol									U 0.010				U 0.010
4-Chloroaniline									U 0.020				U 0.020
2-Chloronaphthalene									U 0.010				U 0.010
2-Chlorophenol									U 0.010				U 0.010
4-Chlorophenyl Phenyl Ether									U 0.010				U 0.010
Chrysene									U 0.005				U 0.005
Dibenz(a,h)anthracene									U 0.005				U 0.005
Dibenzofuran									U 0.010				U 0.010
di-n-Butyl Phthalate									U 0.005				U 0.005

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Managing Director, Texas



Certificate of Analysis Summary 343431

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Fri Sep-04-09 08:45 am

Report Date: 21-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	343431-001	343431-002	343431-003	343431-004	343431-005
SVOAs by SW-846 8270C				WATER	Sep-03-09 09:20	Sep-05-09 08:24	Sep-09-09 15:49	mg/L RL	U 0.010	WATER	WATER	WATER	WATER
									U 0.010	Sep-03-09 00:00	Sep-03-09 11:05	Sep-03-09 13:00	Sep-03-09 13:00
3,3-Dichlorobenzidine									U 0.010				
2,4-Dichlorophenol									U 0.010				
Diethyl Phthalate									U 0.005				
Dimethyl Phthalate									U 0.005				
2,4-Dimethylphenol									U 0.010				
4,6-dinitro-2-methyl phenol									U 0.010				
2,4-Dinitrophenol									U 0.010				
2,4-Dinitrotoluene									U 0.010				
2,6-Dinitrotoluene									U 0.010				
di-n-Octyl Phthalate									U 0.005				
Fluoranthene									U 0.005				
Fluorene									U 0.005				
Hexachlorobenzene									U 0.010				
Hexachlorocyclopentadiene									U 0.010				
Hexachloroethane									U 0.010				
Indeno(1,2,3-c,d)Pyrene									U 0.005				
Isophorone									U 0.010				
2-Methylnaphthalene									U 0.005				
2-methylphenol									U 0.010				
3&4-Methylphenol									U 0.010				
Naphthalene									U 0.005				
2-Nitroaniiline									U 0.010				
3-Nitroaniiline									U 0.010				
4-Nitroaniiline									U 0.020				
Nitrobenzene									U 0.010				

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Carlos Castro
Managing Director, Texas



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Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Fri Sep-04-09 08:45 am

Report Date: 21-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	343431-001	343431-002	343431-003	343431-004	343431-005
	Field Id:	GWP-21-34EB	TB090309	GWP-21-34	GWP-21-42	GWP-21-42D
Depth:						
Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
Sampled:	Sep-03-09 09:20	Sep-03-09 00:00	Sep-03-09 11:05	Sep-03-09 13:00	Sep-03-09 13:00	
Extracted:	Sep-05-09 08:24		Sep-05-09 08:27	Sep-05-09 08:30	Sep-05-09 08:33	
Analyzed:	Sep-09-09 15:49		Sep-09-09 16:27	Sep-09-09 17:06	Sep-09-09 17:44	
Units/RL:	mg/L RL		mg/L RL	mg/L RL	mg/L RL	
2-Nitrophenol	U 0.010		U 0.010	U 0.010	U 0.010	U 0.010
4-Nitrophenol	U 0.010		U 0.010	U 0.010	U 0.010	U 0.010
N-Nitrosodi-n-Propylamine	U 0.010		U 0.010	U 0.010	U 0.010	U 0.010
N-Nitrosodiphenylamine	U 0.010		U 0.010	U 0.010	U 0.010	U 0.010
Pentachlorophenol	U 0.005		U 0.005	U 0.005	U 0.005	U 0.005
Phenanthrene	U 0.010		U 0.010	U 0.010	U 0.010	U 0.010
Phenol	U 0.005		U 0.005	U 0.005	U 0.005	U 0.005
Pyrene	U 0.010		U 0.010	U 0.010	U 0.010	U 0.010
Pyridine	U 0.010		U 0.010	U 0.010	U 0.010	U 0.010
2,4,5-Trichlorophenol	U 0.010		U 0.010	U 0.010	U 0.010	U 0.010
2,4,6-Trichlorophenol	U 0.010		U 0.010	U 0.010	U 0.010	U 0.010

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Carlos Castro
 Managing Director, Texas

Certificate of Analysis Summary 343431

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Date Received in Lab: Fri Sep-04-09 08:45 am

Report Date: 21-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	343431-001	343431-002	343431-003	343431-004	343431-005
	Field Id:	GWP-21-34EB	TB090309	GWP-21-34	GWP-21-42	GWP-21-42D
Depth:						
Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
Sampled:	Sep-03-09 09:20	Sep-03-09 00:00	Sep-03-09 11:05	Sep-03-09 13:00	Sep-03-09 13:00	Sep-03-09 13:00
Extracted:	Sep-15-09 09:50	Sep-15-09 09:30	Sep-15-09 09:52	Sep-15-09 09:54	Sep-15-09 09:56	Sep-15-09 09:56
Analyzed:	Sep-15-09 14:53	Sep-15-09 10:04	Sep-15-09 15:19	Sep-15-09 15:46	Sep-15-09 16:12	Sep-15-09 16:12
Units/RL:	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL
Acetone	U 100	U 100	U 100	U 100	U 100	U 100
Benzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromochloromethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromodichloromethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromoform	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Bromomethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
2-Butanone	U 50.0	U 50.0	U 50.0	U 50.0	U 50.0	U 50.0
MTBE	U 5.00	U 5.00	1.84 J 5.00	5.40 5.00	5.00	5.37 5.00
n-Butylbenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Sec-Butylbenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
tert-Butylbenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Carbon Disulfide	U 50.0	U 50.0	U 50.0	U 50.0	U 50.0	U 50.0
Carbon Tetrachloride	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Chlorobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Chloroethane	U 10.0	U 10.0	U 10.0	U 10.0	U 10.0	U 10.0
Chloroform	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Chloromethane	U 10.0	U 10.0	U 10.0	U 10.0	U 10.0	U 10.0
2-Chlorotoluene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
4-Chlorotoluene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
p-Cymene (p-Isopropyltoluene)	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Dibromochloromethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2-Dibromo-3-Chloropropane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Dibromomethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2-Dichlorobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 343431

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Fri Sep-04-09 08:45 am

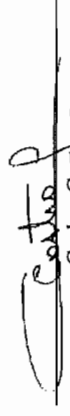
Report Date: 21-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	343431-001	343431-002	343431-003	343431-004	343431-005
				WATER	Sep-03-09 09:20	Sep-15-09 09:50	Sep-15-09 14:53	ug/L RL	GWP-21-34EB	TB090309	GWP-21-34	GWP-21-42	GWP-21-42D
				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL					
1,3-Dichlorobenzene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,4-Dichlorobenzene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Dichlorodifluoromethane				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1-Dichloroethane				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2-Dichloroethane				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1-Dichloroethene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
cis-1,2-Dichloroethene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
trans-1,2-dichloroethene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2-Dichloropropane				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,3-Dichloropropane				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
2,2-Dichloropropane				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1-Dichloropropene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
cis-1,3-Dichloropropene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
trans-1,3-dichloropropene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Ethylbenzene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Hexachlorobutadiene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
isopropylbenzene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Methylene Chloride				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
n-Propylbenzene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Styrene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,1,2-Tetrachloroethane				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,2,2-Tetrachloroethane				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Tetrachloroethylene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Toluene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,3-Trichlorobenzene				WATER	Sep-03-09 00:00	Sep-15-09 09:30	Sep-15-09 10:04	ug/L RL	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 343431

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Fri Sep-04-09 08:45 am


Report Date: 21-SEP-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	343431-001	343431-002	343431-003	343431-004	343431-005
	Field Id:	GWP-21-34EB	TB090309	GWP-21-34	GWP-21-42	GWP-21-42D
Depth:						
Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
Sampled:	Sep-03-09 09:20	Sep-03-09 00:00	Sep-03-09 11:05	Sep-03-09 13:00	Sep-03-09 13:00	Sep-03-09 13:00
Extracted:	Sep-15-09 09:50	Sep-15-09 09:30	Sep-15-09 09:52	Sep-15-09 09:54	Sep-15-09 09:56	Sep-15-09 09:56
Analyzed:	Sep-15-09 14:53	Sep-15-09 10:04	Sep-15-09 15:19	Sep-15-09 15:46	Sep-15-09 16:12	Sep-15-09 16:12
Units/RL:	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL
1,2,4-Trichlorobenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,1-Trichloroethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,1,2-Trichloroethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Trichloroethene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
Trichlorofluoromethane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,3-Trichloropropane	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,2,4-Trimethylbenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
1,3,5-Trimethylbenzene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
o-Xylene	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00	U 5.00
m,p-Xylenes	U 10.0	U 10.0	U 10.0	U 10.0	U 10.0	U 10.0
Vinyl Acetate	U 50.0	U 50.0	U 50.0	U 50.0	U 50.0	U 50.0
Vinyl Chloride	U 2.00	U 2.00	U 2.00	U 2.00	U 2.00	U 2.00

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Carlos Castro
 Managing Director, Texas



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : VOAs by SW-846 8260B

Client : URS Corporation-St. Louis

Work Order #: 343431

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
TB090309	Sep. 3, 2009	Sep. 4, 2009				Sep.15, 2009	14	12	P
GWP-21-42D	Sep. 3, 2009	Sep. 4, 2009				Sep.15, 2009	14	12	P
GWP-21-42	Sep. 3, 2009	Sep. 4, 2009				Sep.15, 2009	14	12	P
GWP-21-34EB	Sep. 3, 2009	Sep. 4, 2009				Sep.15, 2009	14	12	P
GWP-21-34	Sep. 3, 2009	Sep. 4, 2009				Sep.15, 2009	14	12	P



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : SVOAs by SW-846 8270C

Client : URS Corporation-St. Louis

Work Order #: 343431

Project ID: Route 111 & Rand Ave Vicini

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
GWP-21-42	Sep. 3, 2009	Sep. 4, 2009	Sep. 5, 2009	7	2	Sep.9, 2009	40	4	P
GWP-21-42D	Sep. 3, 2009	Sep. 4, 2009	Sep. 5, 2009	7	2	Sep.9, 2009	40	4	P
GWP-21-34	Sep. 3, 2009	Sep. 4, 2009	Sep. 5, 2009	7	2	Sep.9, 2009	40	4	P
GWP-21-34EB	Sep. 3, 2009	Sep. 4, 2009	Sep. 5, 2009	7	2	Sep.9, 2009	40	4	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- * Outside XENCO's scope of NELAC Accreditation.

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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343431,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771627

Sample: 537052-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 09/09/09 13:53

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.036	0.050	72	43-116	
2-Fluorophenol	0.027	0.050	54	21-100	
Nitrobenzene-d5	0.035	0.050	70	35-114	
Phenol-d6	0.019	0.050	38	10-94	
Terphenyl-D14	0.043	0.050	86	33-141	
2,4,6-Tribromophenol	0.033	0.050	66	10-123	

Lab Batch #: 771627

Sample: 537052-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 09/09/09 14:32

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.029	0.050	58	21-100	
Nitrobenzene-d5	0.038	0.050	76	35-114	
Phenol-d6	0.021	0.050	42	10-94	
Terphenyl-D14	0.038	0.050	76	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

Lab Batch #: 771627

Sample: 537052-1-BSD / BSD

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 09/09/09 15:10

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.041	0.050	82	43-116	
2-Fluorophenol	0.032	0.050	64	21-100	
Nitrobenzene-d5	0.041	0.050	82	35-114	
Phenol-d6	0.023	0.050	46	10-94	
Terphenyl-D14	0.040	0.050	80	33-141	
2,4,6-Tribromophenol	0.041	0.050	82	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343431,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771627

Sample: 343431-001 / SMP

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 09/09/09 15:49

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.034	0.050	68	43-116	
2-Fluorophenol	0.021	0.050	42	21-100	
Nitrobenzene-d5	0.034	0.050	68	35-114	
Phenol-d6	0.010	0.050	20	10-94	
Terphenyl-D14	0.045	0.050	90	33-141	
2,4,6-Tribromophenol	0.033	0.050	66	10-123	

Lab Batch #: 771627

Sample: 343431-003 / SMP

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 09/09/09 16:27

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.050	74	43-116	
2-Fluorophenol	0.020	0.050	40	21-100	
Nitrobenzene-d5	0.037	0.050	74	35-114	
Phenol-d6	0.011	0.050	22	10-94	
Terphenyl-D14	0.041	0.050	82	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

Lab Batch #: 771627

Sample: 343431-004 / SMP

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 09/09/09 17:06

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.037	0.050	74	43-116	
2-Fluorophenol	0.024	0.050	48	21-100	
Nitrobenzene-d5	0.037	0.050	74	35-114	
Phenol-d6	0.010	0.050	20	10-94	
Terphenyl-D14	0.040	0.050	80	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343431,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 771627

Sample: 343431-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/09/09 17:44

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.020	0.050	40	21-100	
Nitrobenzene-d5	0.038	0.050	76	35-114	
Phenol-d6	0.011	0.050	22	10-94	
Terphenyl-D14	0.040	0.050	80	33-141	
2,4,6-Tribromophenol	0.039	0.050	78	10-123	

Lab Batch #: 773004

Sample: 538126-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 08:46

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0498	0.0500	100	74-124	
Dibromofluoromethane	0.0514	0.0500	103	75-131	
1,2-Dichloroethane-D4	0.0508	0.0500	102	63-144	
Toluene-D8	0.0496	0.0500	99	80-117	

Lab Batch #: 773004

Sample: 538126-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 09:38

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0516	0.0500	103	74-124	
Dibromofluoromethane	0.0501	0.0500	100	75-131	
1,2-Dichloroethane-D4	0.0508	0.0500	102	63-144	
Toluene-D8	0.0485	0.0500	97	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343431,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 773004

Sample: 343431-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 10:04

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0516	0.0500	103	74-124	
Dibromofluoromethane	0.0517	0.0500	103	75-131	
1,2-Dichloroethane-D4	0.0491	0.0500	98	63-144	
Toluene-D8	0.0485	0.0500	97	80-117	

Lab Batch #: 773004

Sample: 344003-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 11:23

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0518	0.0500	104	74-124	
Dibromofluoromethane	0.0494	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0492	0.0500	98	63-144	
Toluene-D8	0.0503	0.0500	101	80-117	

Lab Batch #: 773004

Sample: 344003-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 11:49

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0517	0.0500	103	74-124	
Dibromofluoromethane	0.0495	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0504	0.0500	101	63-144	
Toluene-D8	0.0501	0.0500	100	80-117	

Lab Batch #: 773004

Sample: 343431-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 14:53

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0516	0.0500	103	74-124	
Dibromofluoromethane	0.0531	0.0500	106	75-131	
1,2-Dichloroethane-D4	0.0528	0.0500	106	63-144	
Toluene-D8	0.0480	0.0500	96	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 343431,

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 773004

Sample: 343431-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 15:19

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0512	0.0500	102	74-124	
Dibromofluoromethane	0.0523	0.0500	105	75-131	
1,2-Dichloroethane-D4	0.0497	0.0500	99	63-144	
Toluene-D8	0.0481	0.0500	96	80-117	

Lab Batch #: 773004

Sample: 343431-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 15:46

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0526	0.0500	105	74-124	
Dibromofluoromethane	0.0522	0.0500	104	75-131	
1,2-Dichloroethane-D4	0.0488	0.0500	98	63-144	
Toluene-D8	0.0486	0.0500	97	80-117	

Lab Batch #: 773004

Sample: 343431-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09/15/09 16:12

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0523	0.0500	105	74-124	
Dibromofluoromethane	0.0523	0.0500	105	75-131	
1,2-Dichloroethane-D4	0.0500	0.0500	100	63-144	
Toluene-D8	0.0481	0.0500	96	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 343431

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 773004

Sample: 538126-1-BKS

Matrix: Water

Date Analyzed: 09/15/2009

Date Prepared: 09/15/2009

Analyst: CRW

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	562	112	60-140	
Benzene	<1.00	50.0	47.1	94	66-142	
Bromobenzene	<1.00	50.0	48.1	96	75-125	
Bromochloromethane	<1.00	50.0	47.6	95	73-125	
Bromodichloromethane	<1.00	50.0	49.3	99	75-125	
Bromoform	<1.00	50.0	52.9	106	75-125	
Bromomethane	<1.00	50.0	37.8	76	70-130	
2-Butanone	<10.0	500	512	102	60-140	
MTBE	<1.00	50.0	53.6	107	65-135	
n-Butylbenzene	<1.00	50.0	54.8	110	75-125	
Sec-Butylbenzene	<1.00	50.0	55.0	110	75-125	
tert-Butylbenzene	<1.00	50.0	55.7	111	75-125	
Carbon Disulfide	<10.0	500	469	94	60-140	
Carbon Tetrachloride	<1.00	50.0	48.7	97	62-125	
Chlorobenzene	<1.00	50.0	47.0	94	60-133	
Chloroethane	<2.00	50.0	39.5	79	70-130	
Chloroform	<1.00	50.0	47.7	95	74-125	
Chloromethane	<2.00	50.0	44.1	88	70-130	
2-Chlorotoluene	<1.00	50.0	50.8	102	73-125	
4-Chlorotoluene	<1.00	50.0	49.6	99	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	55.8	112	75-125	
Dibromochloromethane	<1.00	50.0	51.0	102	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	55.6	111	59-125	
Dibromomethane	<1.00	50.0	48.1	96	69-127	
1,2-Dichlorobenzene	<1.00	50.0	50.2	100	75-125	
1,3-Dichlorobenzene	<1.00	50.0	48.6	97	75-125	
1,4-Dichlorobenzene	<1.00	50.0	46.8	94	75-125	
Dichlorodifluoromethane	<1.00	50.0	49.2	98	70-130	
1,1-Dichloroethane	<1.00	50.0	47.0	94	72-125	
1,2-Dichloroethane	<1.00	50.0	47.5	95	68-127	
1,1-Dichloroethene	<1.00	50.0	48.3	97	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	48.3	97	75-125	
trans-1,2-dichloroethene	<1.00	50.0	48.0	96	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 343431

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch #: 773004

Sample: 538126-1-BKS

Matrix: Water

Date Analyzed: 09/15/2009

Date Prepared: 09/15/2009

Analyst: CRW

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	45.4	91	74-125	
1,3-Dichloropropane	<1.00	50.0	48.7	97	75-125	
2,2-Dichloropropane	<1.00	50.0	54.8	110	75-125	
1,1-Dichloropropene	<1.00	50.0	48.2	96	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	49.4	99	74-125	
trans-1,3-dichloropropene	<1.00	50.0	49.4	99	66-125	
Ethylbenzene	<1.00	50.0	50.0	100	75-125	
Hexachlorobutadiene	<1.00	50.0	52.7	105	75-125	
isopropylbenzene	<1.00	50.0	54.7	109	75-125	
Methylene Chloride	<1.00	50.0	45.8	92	75-125	
n-Propylbenzene	<1.00	50.0	51.7	103	75-125	
Styrene	<1.00	50.0	50.4	101	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	53.2	106	72-125	
1,1,1,2,2-Tetrachloroethane	<1.00	50.0	51.6	103	74-125	
Tetrachloroethylene	<1.00	50.0	48.7	97	71-125	
Toluene	<1.00	50.0	45.0	90	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	52.9	106	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	53.6	107	75-135	
1,1,1-Trichloroethane	<1.00	50.0	50.8	102	75-125	
1,1,2-Trichloroethane	<1.00	50.0	46.6	93	75-127	
Trichloroethene	<1.00	50.0	47.5	95	62-137	
Trichlorofluoromethane	<1.00	50.0	50.6	101	67-125	
1,2,3-Trichloropropane	<1.00	50.0	50.5	101	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	53.4	107	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	53.9	108	70-125	
o-Xylene	<1.00	50.0	52.5	105	75-125	
m,p-Xylenes	<2.00	100	100	100	75-125	
Vinyl Acetate	<10.0	500	488	98	60-140	
Vinyl Chloride	<0.400	50.0	48.0	96	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: 900 S. Central Avenue

Work Order #: 343431

Analyst: KAN

Lab Batch ID: 771627

Date Prepared: 09/05/2009

Batch #: 1

Sample: 537052-1-BKS

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 09/09/2009

Matrix: Water

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
SVOAs by SW-846 8270C											
Acenaphthene	<0.001	0.050	0.037	74	0.05	0.040	80	8	27-132	31	
Acenaphthylene	<0.001	0.050	0.036	72	0.05	0.039	78	8	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.001	0.050	0.034	68	0.05	0.036	72	6	5-115	25	
Anthracene	<0.001	0.050	0.038	76	0.05	0.040	80	5	47-145	25	
Benzo(a)anthracene	<0.001	0.050	0.039	78	0.05	0.042	84	7	33-143	25	
Benzo(a)pyrene	<0.001	0.050	0.038	76	0.05	0.041	82	8	65-135	25	
Benzo(b)fluoranthene	<0.001	0.050	0.039	78	0.05	0.040	80	3	24-159	25	
Benzo(k)fluoranthene	<0.001	0.050	0.037	74	0.05	0.040	80	8	25-125	25	
Benzo(g,h,i)perylene	<0.001	0.050	0.049	98	0.05	0.053	106	8	65-135	25	
Benzoic Acid	<0.009	0.150	0.068	45	0.15	0.068	45	0	30-115	40	
Benzy] Butyl Phthalate	<0.001	0.050	0.035	70	0.05	0.038	76	8	65-135	25	
bis(2-chloroethoxy) methane	<0.001	0.050	0.037	74	0.05	0.040	80	8	54-188	25	
bis(2-chloroethyl) ether	<0.001	0.050	0.035	70	0.05	0.037	74	6	65-135	25	
bis(2-chloroisopropyl) ether	<0.001	0.050	0.035	70	0.05	0.038	76	8	65-135	25	
bis(2-ethylhexyl) phthalate	<0.001	0.050	0.037	74	0.05	0.040	80	8	8-158	25	
4-Bromophenyl-phenylether	<0.001	0.050	0.038	76	0.05	0.040	80	5	65-135	25	
4-chloro-3-methylphenol	<0.001	0.050	0.036	72	0.05	0.039	78	8	16-129	33	
4-Chloroaniline	<0.001	0.050	0.041	82	0.05	0.041	82	0	9-128	25	
2-Chloronaphthalene	<0.001	0.050	0.039	78	0.05	0.043	86	10	65-135	25	
2-Chlorophenol	<0.001	0.050	0.035	70	0.05	0.038	76	8	16-116	40	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$
 Blank Spike Recovery [D] = $100 * (C)/[B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$
 All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343431

Project ID: Route 111 & Rand Ave Vicinity/21561979

Analyst: KAN

Date Prepared: 09/05/2009

Date Analyzed: 09/09/2009

Lab Batch ID: 771627

Sample: 537052-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
	4-Chlorophenyl Phenyl Ether	<0.001	0.050	0.037	74	0.05	0.039	78	5	65-135	25	
	Chrysene	<0.001	0.050	0.037	74	0.05	0.047	94	24	65-135	25	
	Dibenz(a,h)anthracene	<0.001	0.050	0.047	94	0.05	0.051	102	8	50-125	25	
	Dibenzofuran	<0.001	0.050	0.038	76	0.05	0.041	82	8	52-125	25	
	di-n-Butyl Phthalate	<0.003	0.050	0.040	80	0.05	0.042	84	5	49-135	50	
	3,3-Dichlorobenzidine	<0.002	0.050	0.033	66	0.05	0.034	68	3	12-147	25	
	2,4-Dichlorophenol	<0.001	0.050	0.036	72	0.05	0.039	78	8	65-135	25	
	Diethyl Phthalate	<0.001	0.050	0.037	74	0.05	0.039	78	5	37-125	50	
	Dimethyl Phthalate	<0.001	0.050	0.038	76	0.05	0.040	80	5	25-175	50	
	2,4-Dimethylphenol	<0.001	0.050	0.034	68	0.05	0.037	74	8	32-119	25	
	4,6-dinitro-2-methyl phenol	<0.001	0.050	0.038	76	0.05	0.041	82	8	2-181	25	
	2,4-Dinitrophenol	<0.001	0.050	0.040	80	0.05	0.042	84	5	65-135	25	
	2,4-Dinitrotoluene	<0.001	0.050	0.037	74	0.05	0.040	80	8	22-135	38	
	2,6-Dinitrotoluene	<0.001	0.050	0.036	72	0.05	0.038	76	5	49-122	38	
	di-n-Octyl Phthalate	<0.001	0.050	0.035	70	0.05	0.037	74	6	43-134	50	
	Fluoranthene	<0.001	0.050	0.037	74	0.05	0.040	80	8	47-125	25	
	Fluorene	<0.001	0.050	0.037	74	0.05	0.039	78	5	48-139	25	
	Hexachlorobenzene	<0.001	0.050	0.037	74	0.05	0.040	80	8	46-133	25	
	Hexachlorocyclopentadiene	<0.001	0.050	0.035	70	0.05	0.037	74	6	41-125	25	
	Hexachloroethane	<0.001	0.050	0.035	70	0.05	0.038	76	8	25-153	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343431

Analyst: KAN

Lab Batch ID: 771627

Sample: 537052-1-BKS

Project ID: Route 111 & Rand Ave Vicinity/21561979

Date Analyzed: 09/09/2009

Matrix: Water

Date Prepared: 09/05/2009

Batch #: 1

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Indeno(1,2,3-c,d)Pyrene		<0.001	0.050	0.045	90	0.05	0.049	98	9	27-160	25	
Isophorone		<0.001	0.050	0.035	70	0.05	0.038	76	8	26-175	25	
2-Methylnaphthalene		<0.001	0.050	0.038	76	0.05	0.040	80	5	25-175	25	
2-methylphenol		<0.001	0.050	0.034	68	0.05	0.034	68	0	14-176	25	
3&4-Methylphenol		<0.002	0.100	0.074	74	0.1	0.067	67	10	14-176	25	
Naphthalene		<0.001	0.050	0.036	72	0.05	0.039	78	8	26-175	25	
2-Nitroaniline		<0.001	0.050	0.040	80	0.05	0.043	86	7	65-135	25	
3-Nitroaniline		<0.002	0.050	0.042	84	0.05	0.044	88	5	65-135	25	
4-Nitroaniline		<0.001	0.050	0.042	84	0.05	0.046	92	9	65-135	25	
Nitrobenzene		<0.001	0.050	0.037	74	0.05	0.040	80	8	65-135	25	
2-Nitrophenol		<0.001	0.050	0.037	74	0.05	0.040	80	8	65-135	25	
4-Nitrophenol		<0.001	0.050	0.034	68	0.05	0.038	76	11	10-80	50	
N-Nitrosodi-n-Propylamine		<0.001	0.050	0.033	66	0.05	0.035	70	6	22-134	38	
N-Nitrosodiphenylamine		<0.002	0.050	0.038	76	0.05	0.041	82	8	2-196	25	
Pentachlorophenol		<0.001	0.050	0.036	72	0.05	0.040	80	11	17-117	50	
Phenanthrene		<0.001	0.050	0.039	78	0.05	0.042	84	7	65-135	25	
Phenol		<0.001	0.050	0.021	42	0.05	0.023	46	9	12-110	25	
Pyrene		<0.001	0.050	0.036	72	0.05	0.039	78	8	23-152	31	
Pyridine		<0.004	0.050	0.021	42	0.05	0.021	42	0	16-86	28	
2,4,5-Trichlorophenol		<0.001	0.050	0.036	72	0.05	0.039	78	8	65-135	25	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)]

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343431

Project ID: Route 111 & Rand Ave Vicinity/21561979

Analyst: KAN

Date Prepared: 09/05/2009

Date Analyzed: 09/09/2009

Lab Batch ID: 771627

Sample: 537052-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		<0.001	0.050	0.038	76	0.05	0.040	80	5	65-135	25	
2,4,6-Trichlorophenol												

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$
 Blank Spike Recovery [D] = $100 * (C)/[B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$
 All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343431

Lab Batch ID: 773004

Date Analyzed: 09/15/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

QC-Sample ID: 344003-001 S

Date Prepared: 09/15/2009

Batch #: 1

Matrix: Water

Analyst: CRW

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acetone	<1.00	50.0	192	38	50.0	185	37	4	60-140	21	X
Benzene	<1.00	50.0	30.7	61	50.0	28.7	57	7	66-142	21	X
Bromobenzene	<5.00	50.0	44.7	89	50.0	43.3	87	3	75-125	20	
Bromochloromethane	<5.00	50.0	37.3	75	50.0	34.8	70	7	73-125	20	X
Bromodichloromethane	<1.00	50.0	45.4	91	50.0	42.1	84	8	75-125	20	
Bromoform	<1.00	50.0	49.4	99	50.0	47.5	95	4	75-125	20	
Bromomethane	<1.00	50.0	17.5	35	50.0	19.9	40	13	70-130	20	X
2-Butanone	<5.00	50.0	296	59	50.0	293	59	1	60-140	20	X
MTBE	<5.00	50.0	49.5	99	50.0	46.3	93	7	65-135	20	
n-Butylbenzene	<5.00	50.0	52.5	105	50.0	47.7	95	10	75-125	20	
Sec-Butylbenzene	<5.00	50.0	51.8	104	50.0	47.1	94	10	75-125	20	
tert-Butylbenzene	<5.00	50.0	52.5	105	50.0	48.4	97	8	75-125	20	
Carbon Disulfide	<5.00	500	144	29	500	132	26	9	60-140	20	X
Carbon Tetrachloride	<1.00	50.0	35.8	72	50.0	32.7	65	9	62-125	20	
Chlorobenzene	<1.00	50.0	39.1	78	50.0	36.8	74	6	60-133	21	
Chloroethane	<1.00	50.0	23.9	48	50.0	24.1	48	1	70-130	20	X
Chloroform	<1.00	50.0	39.6	79	50.0	36.5	73	8	74-125	20	X
Chloromethane	<1.00	50.0	20.5	41	50.0	21.4	43	4	70-130	20	X
2-Chlorotoluene	<5.00	50.0	44.8	90	50.0	42.2	84	6	73-125	20	
4-Chlorotoluene	<5.00	50.0	46.0	92	50.0	43.7	87	5	74-125	20	
p-Cymene (p-Isopropyltoluene)	<5.00	50.0	52.9	106	50.0	48.5	97	9	75-125	20	
Dibromochloromethane	<1.00	50.0	42.3	85	50.0	40.3	81	5	73-125	20	
1,2-Dibromo-3-Chloropropane	<5.00	50.0	54.5	109	50.0	52.2	104	4	59-125	28	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 343431

Project ID: Route 111 & Rand Ave Vicinity/21561979

Lab Batch ID: 773004

Batch #: 1 Matrix: Water

Date Analyzed: 09/15/2009

QC- Sample ID: 344003-001 S Date Prepared: 09/15/2009 Analyst: CRW

Reporting Units: ug/L

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dibromomethane	<5.00	50.0	36.0	72	50.0	33.9	68	6	69-127	23	X
1,2-Dichlorobenzene	<1.00	50.0	47.4	95	50.0	44.4	89	7	75-125	20	
1,3-Dichlorobenzene	<1.00	50.0	48.9	98	50.0	46.3	93	5	75-125	20	
1,4-Dichlorobenzene	<1.00	50.0	43.2	86	50.0	40.5	81	6	75-125	20	
Dichlorodifluoromethane	<5.00	50.0	31.4	63	50.0	32.1	64	2	70-130	23	X
1,1-Dichloroethane	<1.00	50.0	38.2	76	50.0	35.3	71	8	72-125	20	X
1,2-Dichloroethane	<1.00	50.0	37.8	76	50.0	35.3	71	7	68-127	20	
1,1-Dichloroethene	<1.00	50.0	32.2	64	50.0	28.9	58	11	59-172	22	X
cis-1,2-Dichloroethene	<5.00	50.0	36.9	74	50.0	34.9	70	6	75-125	20	X
trans-1,2-dichloroethene	<1.00	50.0	26.9	54	50.0	25.1	50	7	75-125	20	X
1,2-Dichloropropane	<1.00	50.0	38.8	78	50.0	36.6	73	6	74-125	20	X
1,3-Dichloropropane	<5.00	50.0	43.6	87	50.0	42.1	84	4	75-125	20	
2,2-Dichloropropane	<5.00	50.0	40.9	82	50.0	37.5	75	9	75-125	20	
1,1-Dichloropropene	<5.00	50.0	31.2	62	50.0	28.7	57	8	75-125	20	X
cis-1,3-Dichloropropene	<1.00	50.0	36.5	73	50.0	35.0	70	4	74-125	20	X
trans-1,3-dichloropropene	<1.00	50.0	36.5	73	50.0	35.0	70	4	66-125	20	
Ethylbenzene	<1.00	50.0	40.5	81	50.0	38.1	76	6	75-125	20	
Hexachlorobutadiene	<5.00	50.0	49.8	100	50.0	43.8	88	13	75-125	20	
isopropylbenzene	<5.00	50.0	48.4	97	50.0	45.2	90	7	75-125	20	
Methylene Chloride	<10.0	50.0	29.9	60	50.0	28.0	56	7	75-125	35	X
n-Propylbenzene	<5.00	50.0	47.4	95	50.0	44.7	89	6	75-125	20	
Styrene	<5.00	50.0	40.2	80	50.0	38.9	78	3	75-125	51	
1,1,1,2-Tetrachloroethane	<5.00	50.0	45.8	92	50.0	42.4	85	8	72-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 343431

Lab Batch ID: 773004

Date Analyzed: 09/15/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/21561979

Batch #: 1 Matrix: Water

Analyst: CRW

QC- Sample ID: 344003-001 S

Date Prepared: 09/15/2009

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	1,1,2,2-Tetrachloroethane	<1.00	50.0	49.6	99	50.0	48.4	97	2	74-125	31
Tetrachloroethylene	<1.00	50.0	35.0	70	50.0	32.7	65	7	71-125	20	X
Toluene	<1.00	50.0	31.5	63	50.0	29.3	59	7	59-139	21	
1,2,3-Trichlorobenzene	<5.00	50.0	52.0	104	50.0	46.8	94	11	75-137	20	
1,2,4-Trichlorobenzene	<5.00	50.0	51.9	104	50.0	46.3	93	11	75-135	20	
1,1,1-Trichloroethane	<1.00	50.0	40.6	81	50.0	37.4	75	8	75-125	20	
1,1,2-Trichloroethane	<1.00	50.0	42.9	86	50.0	40.7	81	5	75-127	20	
Trichloroethene	<1.00	50.0	34.4	69	50.0	31.4	63	9	62-137	24	
Trichlorofluoromethane	<5.00	50.0	32.5	65	50.0	33.5	67	3	67-125	20	X
1,2,3-Trichloropropane	<5.00	50.0	52.5	105	50.0	51.6	103	2	75-125	20	
1,2,4-Trimethylbenzene	<5.00	50.0	46.6	93	50.0	43.5	87	7	75-125	20	
1,3,5-Trimethylbenzene	<5.00	50.0	46.1	92	50.0	42.9	86	7	70-125	20	
o-Xylene	<1.00	50.0	39.0	78	50.0	36.9	74	6	75-125	20	X
m,p-Xylenes	<2.00	100	78.8	79	100	74.5	75	6	75-125	20	
Vinyl Acetate	<50.0	500	242	48	500	227	45	6	60-140	20	X
Vinyl Chloride	<1.00	50.0	25.5	51	50.0	27.1	54	6	75-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQ = Estimated Quantitation Limit



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
 4143 Greenbrier Dr., Stafford, TX 77477
 WENCO PH-281-240-4200 FAX-281-240-4280
 CALSICCIA ()
 TEST AMERICA ()
 SPL ()
 OTHER ()

Print Bill To Contact Name: KEVIN DYER
 DATE: 9/3/09
 PAGE: 1 of 1

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
 SAP # 3 4 0 0 6 1
 SOPS SITE ADDRESS (Street, City and State):
 900 S. CENTRAL AVENUE ROXANA, ILLINOIS 62084
 CONSULTANT PROJECT NAME / NO.:
 Routes 111 & Rand Ave Vicinity / 21561979

CONSULTANT COMPANY:
 URS CORPORATION - FIELD OFFICE
 ADDRESS:
 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300
 170 E. RAND AVENUE
 HARTFORD, ILLINOIS 62048
 TELEPHONE: OFF: 314-743-4166
 CELL: 314-452-8929
 FAX: OFF: 314-743-4166
 CELL: 314-452-8929
 EMAIL: wendy_pennington@urscorp.com

LAB USE ONLY
 343431-H
 SAMP. NAME(S) (Print):
 Mike Corbett
 WENDY PENNINGTON
 CONSULTANT PROJECT CONTACT (Report to):

TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (10 DAY) 5 DAYS 3 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND
 DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) EDD
 TEMPERATURE ON RECEIPT C° Cooler #1 2-3 Cooler #2
 SHELL CONTRACT RATE APPLIES

REQUESTED ANALYSIS
 VOC 8260B
 SVOC/PAH 8270B
 moisture

SPECIAL INSTRUCTIONS OR NOTES:
 Please include "J" values on Level 2 Reports
 Please provide sample receipt upon login.

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE				NO. OF CONT.
	DATE	TIME	MCL	H303		H304	NONE	OTHER		
	GWP-21-34EB	9/3/09	0920	water	X				X	5
	TB090309			water	X					2
	GWP-21-34		1105	water	X				X	5
	GWP-21-42		1300	water	X				X	5
	GWP-21-42D		1300	water	X				X	5

Requested by (Signature)	Date	Time
Wendy Knight	9/3/09	1700
FED EX	9/4/09	0845



Prelogin / Nonconformance Report - Sample Log-In

Client: URS Corp.
Date/Time: 9-4-09
Lab ID #: 343431
Initials: IT

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	<u>Yes</u>	<u>No</u>	<u>IT</u>	
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No. <u>2126</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>40</u> lbs <u>2.3</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: Received only & 1 Trip Blank Coc Says 2

Corrective Action Taken: _____

- Check all that apply:
- Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 349660

Reviewer: Tony Sedlacek

Date Reviewed: 1/7/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
MW-8-102209	MW-7-102309
MW-8-102209D	TB102209

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that VOC LCS recoveries were outside evaluation criteria. Samples were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, methylene chloride was detected in the trip blank. Phenol results were qualified due to a greater than two times the reporting limit difference between the parent and field duplicate results. The bis(2-ethylhexyl) phthalate result in sample MW-7-102309 was qualified using professional judgment. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that two trip blank samples were received by the laboratory and three were recorded on the COC. Sufficient volume was available to complete the requested analysis. In addition, samples were received by the laboratory at 1.3°C and outside the 4°C ± 2°C temperature range criteria. Samples were received by the laboratory in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
TB102209	VOCs	Methylene chloride	3.14	µg/L

Methylene chloride was non-detect in all samples associated with the trip blank; therefore, no qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
542105-1-BKS	VOCs	Bromodichloromethane	129	N/A	75-125
542659-1-BKS	VOCs	Chloromethane	139	N/A	70-130
542659-1-BKS	VOCs	Vinyl chloride	130	N/A	75-125

The compounds listed in the table above were reported as nondetect in samples associated with LCS recoveries above evaluation criteria, indicating a possible high bias, and did not require qualification.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
MW-8-102209	MW-8-102209D

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
MW-8-102209	MW-8-102209D	SVOCs	Phenol	> 2X RL	J

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes

Professional judgment was used to qualify the common laboratory contaminant bis(2-ethylhexyl) phthalate reported at concentrations less than two times (2X) the RL.

Sample ID	Analyte	New RL	Qualification	Comment
MW-7-102309	bis(2-ethylhexyl) phthalate	-	U	Professional Judgment

Analytical Report 349660

for

URS Corporation-St. Louis

Project Manager: Wendy Pennington

900 S. Central Avenue

Route 111 & Rand Ave Vicinity/ 21561979

09-NOV-09



4143 Greenbriar Dr., Stafford, TX 77477

Ph:(281) 240-4200 Fax:(281) 240-4280

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida (E86240),

South Carolina (96031001), Louisiana (04154), Georgia (917)



09-NOV-09

Project Manager: **Wendy Pennington**
URS Corporation-St. Louis
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110

Reference: XENCO Report No: **349660**
900 S. Central Avenue
Project Address: Roxana, IL 62084

Wendy Pennington:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 349660. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 349660 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos Castro
Managing Director, Texas

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Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America*



Sample Cross Reference 349660



URS Corporation-St. Louis, St. Louis, MO
900 S. Central Avenue

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-8-102209	W	Oct-22-09 15:00		349660-001
MW-7-102309	W	Oct-23-09 10:30		349660-002
MW-8-102209D	W	Oct-22-09 15:00		349660-003
TB102209	W	Oct-22-09 00:00		349660-004



CASE NARRATIVE

Client Name: URS Corporation-St. Louis
Project Name: 900 S. Central Avenue

Project ID: Route111 & Rand Ave Vic.
Work Order Number: 349660

Report Date: 09-NOV-09
Date Received: 10/24/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-778994 SVOAs by SW-846 8270C
None

Batch: LBA-779876 VOAs by SW-846 8260B

Bromodichloromethane recovered above QC limits in the laboratory control sample. No sample reporting hits for this compound.

Samples affected are: 349660-002, -003, -001.

Acetone recovered below QC limits in the Matrix Spike Duplicate. 1,1,1-Trichloroethane, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, MTBE, cis-1,2-Dichloroethene recovered above QC limits in the Matrix Spike. Dichlorodifluoromethane recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate.

Trichlorofluoromethane recovered above QC limits in the Matrix Spike Duplicate.

Samples affected are: 349660-002, -003, -001.

The Laboratory Control Sample for Acetone, cis-1,2-Dichloroethene, Bromochloromethane, Carbon Tetrachloride, MTBE, Trichlorofluoromethane, Dichlorodifluoromethane, 1,1,1-Trichloroethane is within laboratory Control Limits



CASE NARRATIVE

Client Name: URS Corporation-St. Louis

Project Name: 900 S. Central Avenue

Project ID: Route111 & Rand Ave Vic.

Report Date: 09-NOV-09

Work Order Number: 349660

Date Received: 10/24/2009

Batch: LBA-780836 VOAs by SW-846 8260B

Chloromethane, Vinyl Chloride recovered above QC limits in the laboratory control sample. No samples reporting hits for these compounds.

Samples affected are: 349660-004.

1,1,2,2-Tetrachloroethane, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane, 1,2-Dichlorobenzene, 1,3,5-Trimethylbenzene, 2-Butanone, 2-Chlorotoluene, 4-Chlorotoluene, Bromobenzene, Hexachlorobutadiene, n-Butylbenzene, n-Propylbenzene, trans-1,3-dichloropropene RPD was outside QC limits in the Matrix Spike/Matrix Spike Duplicate.

Samples affected are: 349660-004

1,2,3-Trichloropropane, 2-Chlorotoluene, Acetone, Hexachlorobutadiene recovered below QC limits in the Matrix Spike.

Samples affected are: 349660-004.

The Laboratory Control Sample for Acetone, 1,2,3-Trichloropropane, 2-Chlorotoluene, Hexachlorobutadiene is within laboratory Control Limits



Certificate of Analysis Summary 349660

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/ 2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Sat Oct-24-09 09:30 am

Report Date: 09-NOV-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	349660-001	349660-002	349660-003	349660-004
	Field Id:	MW-8-102209	MW-7-102309	MW-8-102209D	TB102209
	Depth:				
	Matrix:	WATER	WATER	WATER	WATER
	Sampled:	Oct-22-09 15:00	Oct-23-09 10:30	Oct-22-09 15:00	Oct-22-09 00:00
	Extracted:	Oct-27-09 08:30	Oct-27-09 08:33	Oct-27-09 08:36	
	Analyzed:	Oct-28-09 14:43	Oct-28-09 15:18	Oct-28-09 15:53	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	
Acenaphthene		U 0.005	U 0.005	U 0.006	
Acenaphthylene		U 0.005	U 0.005	U 0.006	
Aniline (Phenylamine, Aminobenzene)		U 0.020	U 0.020	U 0.023	
Anthracene		U 0.005	U 0.005	U 0.006	
Benzo(a)anthracene		U 0.005	U 0.005	U 0.006	
Benzo(a)pyrene		U 0.005	U 0.005	U 0.006	
Benzo(b)fluoranthene		U 0.005	U 0.005	U 0.006	
Benzo(k)fluoranthene		U 0.005	U 0.005	U 0.006	
Benzo(g,h,i)perylene		U 0.005	U 0.005	U 0.006	
Benzoic Acid		U 0.030	U 0.030	U 0.034	
Benzyl Butyl Phthalate		U 0.005	U 0.005	U 0.006	
bis(2-chloroethoxy) methane		U 0.010	U 0.010	U 0.011	
bis(2-chloroethyl) ether		U 0.010	U 0.010	U 0.011	
bis(2-chloroisopropyl) ether		U 0.010	U 0.010	U 0.011	
bis(2-ethylhexyl) phthalate		U 0.005	U 0.005	U 0.006	
4-Bromophenyl-phenylether		U 0.010	U 0.010	U 0.011	
4-chloro-3-methylphenol		U 0.010	U 0.010	U 0.011	
4-Chloroaniline		U 0.020	U 0.020	U 0.023	
2-Chloronaphthalene		U 0.010	U 0.010	U 0.011	
2-Chlorophenol		U 0.010	U 0.010	U 0.011	
4-Chlorophenyl Phenyl Ether		U 0.010	U 0.010	U 0.011	
Chrysene		U 0.005	U 0.005	U 0.006	
Dibenz(a,h)anthracene		U 0.005	U 0.005	U 0.006	
Dibenzofuran		U 0.010	U 0.010	U 0.011	
di-n-Butyl Phthalate		U 0.005	U 0.005	U 0.006	

This analytical report and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro
Managing Director, Texas



Certificate of Analysis Summary 349660

URS Corporation-St. Louis, St. Louis, MO



Project Id: Route 111 & Rand Ave Vicinity/ 2156197

Contact: Wendy Pennington

Project Location: Roxana, IL 62084

Project Name: 900 S. Central Avenue

Date Received in Lab: Sat Oct-24-09 09:30 am


Report Date: 09-NOV-09

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	349660-001	349660-002	349660-003	349660-004
	Field Id:	MW-8-102209	MW-7-102309	MW-8-102209D	TB102209
Depth:					
Matrix:	WATER	WATER	WATER	WATER	WATER
Sampled:	Oct-22-09 15:00	Oct-23-09 10:30	Oct-22-09 15:00	Oct-22-09 00:00	
Extracted:	Oct-27-09 08:30	Oct-27-09 08:33	Oct-27-09 08:36		
Analyzed:	Oct-28-09 14:43	Oct-28-09 15:18	Oct-28-09 15:53		
Units/RL:	mg/L RL	mg/L RL	mg/L RL		
3,3-Dichlorobenzidine	U 0.010	U 0.010	U 0.011		
2,4-Dichlorophenol	U 0.010	U 0.010	U 0.011		
Diethyl Phthalate	U 0.005	U 0.005	U 0.006		
Dimethyl Phthalate	U 0.005	U 0.005	U 0.006		
2,4-Dimethylphenol	0.004 J 0.010	0.006 J 0.010	0.004 J 0.011		
4,6-dinitro-2-methyl phenol	U 0.010	U 0.010	U 0.011		
2,4-Dinitrophenol	U 0.010	U 0.010	U 0.011		
2,4-Dinitrotoluene	U 0.010	U 0.010	U 0.011		
2,6-Dinitrotoluene	U 0.010	U 0.010	U 0.011		
di-n-Octyl Phthalate	U 0.005	U 0.005	U 0.006		
Fluoranthene	U 0.005	U 0.005	U 0.006		
Fluorene	U 0.005	U 0.005	U 0.006		
Hexachlorobenzene	U 0.010	U 0.010	U 0.011		
Hexachlorocyclopentadiene	U 0.010	U 0.010	U 0.011		
Hexachloroethane	U 0.010	U 0.010	U 0.011		
Indeno(1,2,3-c,d)Pyrene	U 0.005	U 0.005	U 0.006		
Isophorone	U 0.010	U 0.010	U 0.011		
2-Methylnaphthalene	0.010 0.005	0.001 J 0.005	0.009 0.006		
2-methylphenol	U 0.010	U 0.010	U 0.011		
3&4-Methylphenol	0.002 J 0.010	0.002 J 0.010	0.002 J 0.011		
Naphthalene	0.032 0.005	0.006 0.005	0.031 0.006		
2-Nitroaniline	U 0.010	U 0.010	U 0.011		
3-Nitroaniline	U 0.010	U 0.010	U 0.011		
4-Nitroaniline	U 0.020	U 0.020	U 0.023		
Nitrobenzene	U 0.010	U 0.010	U 0.011		

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Carlos Castro
 Managing Director, Texas



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Project Manager: Debbie Simmons

Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	349660-001	349660-002	349660-003	349660-004
					MW-8-102209	MW-7-102309	MW-8-102309D	TB102309
					WATER	WATER	WATER	WATER
					Oct-22-09 15:00	Oct-23-09 10:30	Oct-22-09 15:00	Oct-22-09 00:00
Analysis Requested								
SVOAs by SW-846 8270C								
2-Nitrophenol				mg/L	U 0.010	U 0.010	U 0.011	
4-Nitrophenol				RL	U 0.010	U 0.010	U 0.011	
N-Nitrosodi-n-Propylamine				mg/L	U 0.010	U 0.010	U 0.011	
N-Nitrosodiphenylamine				RL	U 0.010	U 0.010	U 0.011	
Pentachlorophenol				mg/L	U 0.010	U 0.010	U 0.011	
Phenanthrene				RL	U 0.005	U 0.005	U 0.006	
Phenol				mg/L	0.050	0.023	0.124 DJ	0.112
Pyrene				RL	U 0.005	U 0.005	U 0.006	
Pyridine				mg/L	U 0.010	U 0.010	U 0.011	
2,4,5-Trichlorophenol				RL	U 0.010	U 0.010	U 0.011	
2,4,6-Trichlorophenol				mg/L	U 0.010	U 0.010	U 0.011	

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Contact: Wendy Pennington
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Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	349660-001	349660-002	349660-003	349660-004
	Field Id:	MW-8-102209	MW-7-102309	MW-8-102209D	TB102209
Depth:					
Matrix:		WATER	WATER	WATER	WATER
Sampled:		Oct-22-09 15:00	Oct-23-09 10:30	Oct-22-09 15:00	Oct-22-09 00:00
Extracted:		Oct-30-09 12:16	Oct-30-09 12:20	Oct-30-09 12:22	Nov-05-09 09:00
Analyzed:		Oct-30-09 18:28	Oct-30-09 19:14	Oct-30-09 19:37	Nov-05-09 12:07
Units/RL:		ug/L RL	ug/L RL	ug/L RL	ug/L RL
Acetone		U 500000	U 500000	U 500000	U 100
Benzene		1130000 D 50000	684000 25000	1010000 D 50000	U 5.00
Bromobenzene		U 25000	U 25000	U 25000	U 5.00
Bromochloromethane		U 25000	U 25000	U 25000	U 5.00
Bromodichloromethane		U 25000	U 25000	U 25000	U 5.00
Bromoform		U 25000	U 25000	U 25000	U 5.00
Bromomethane		U 25000	U 25000	U 25000	U 5.00
2-Butanone		U 250000	U 250000	U 250000	U 50.0
MTBE		U 25000	U 25000	U 25000	U 5.00
n-Butylbenzene		U 25000	U 25000	U 25000	U 5.00
Sec-Butylbenzene		U 25000	U 25000	U 25000	U 5.00
tert-Butylbenzene		U 25000	U 25000	U 25000	U 5.00
Carbon Disulfide		U 250000	U 250000	U 250000	U 50.0
Carbon Tetrachloride		U 25000	U 25000	U 25000	U 5.00
Chlorobenzene		U 25000	U 25000	U 25000	U 5.00
Chloroethane		U 50000	U 50000	U 50000	U 10.0
Chloroform		U 25000	U 25000	U 25000	U 5.00
Chloromethane		U 50000	U 50000	U 50000	U 10.0
2-Chlorotoluene		U 25000	U 25000	U 25000	U 5.00
4-Chlorotoluene		U 25000	U 25000	U 25000	U 5.00
p-Cymene (p-Isopropyltoluene)		U 25000	U 25000	U 25000	U 5.00
Dibromochloromethane		U 25000	U 25000	U 25000	U 5.00
1,2-Dibromo-3-Chloropropane		U 25000	U 25000	U 25000	U 5.00
Dibromomethane		U 25000	U 25000	U 25000	U 5.00
1,2-Dichlorobenzene		U 25000	U 25000	U 25000	U 5.00

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Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	349660-001	349660-002	349660-003	349660-004
VOAs by SW-846 8260B				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
1,3-Dichlorobenzene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
1,4-Dichlorobenzene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
Dichlorodifluoromethane				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
1,1-Dichloroethane				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
1,2-Dichloroethane				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
1,1-Dichloroethene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
cis-1,2-Dichloroethene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
trans-1,2-dichloroethene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
1,2-Dichloropropane				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
1,3-Dichloropropane				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
2,2-Dichloropropane				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
1,1-Dichloropropene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
cis-1,3-Dichloropropene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
trans-1,3-dichloropropene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
Ethylbenzene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
Hexachlorobutadiene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
isopropylbenzene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
Methylene Chloride				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	3.14 J 5.00
n-Propylbenzene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
Styrene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
1,1,1,2-Tetrachloroethane				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
1,1,2,2-Tetrachloroethane				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
Tetrachloroethylene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
Toluene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00
1,2,3-Trichlorobenzene				WATER	Oct-22-09 15:00	Oct-30-09 12:16	Oct-30-09 18:28	ug/L	U 25000	U 25000	U 25000	U 5.00

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	Field Id:	MW-8-102209	MW-7-102309	MW-8-102209D	TB102209
Depth:					
Matrix:	WATER	WATER	WATER	WATER	WATER
Sampled:	Oct-22-09 15:00	Oct-23-09 10:30	Oct-22-09 15:00	Oct-22-09 00:00	Oct-22-09 00:00
Extracted:	Oct-30-09 12:16	Oct-30-09 12:20	Oct-30-09 12:22	Nov-05-09 09:00	Nov-05-09 09:00
Analyzed:	Oct-30-09 18:28	Oct-30-09 19:14	Oct-30-09 19:37	Nov-05-09 12:07	Nov-05-09 12:07
Units/RL:	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL
1,2,4-Trichlorobenzene	U 25000	U 25000	U 25000	U 5.00	U 5.00
1,1,1-Trichloroethane	U 25000	U 25000	U 25000	U 5.00	U 5.00
1,1,2-Trichloroethane	U 25000	U 25000	U 25000	U 5.00	U 5.00
Trichloroethene	U 25000	U 25000	U 25000	U 5.00	U 5.00
Trichlorofluoromethane	U 25000	U 25000	U 25000	U 5.00	U 5.00
1,2,3-Trichloropropane	U 25000	U 25000	U 25000	U 5.00	U 5.00
1,2,4-Trimethylbenzene	U 25000	U 25000	U 25000	U 5.00	U 5.00
1,3,5-Trimethylbenzene	U 25000	U 25000	U 25000	U 5.00	U 5.00
o-Xylene	U 25000	U 25000	U 25000	U 5.00	U 5.00
m,p-Xylenes	U 50000	U 50000	U 50000	U 10.0	U 10.0
Vinyl Acetate	U 250000	U 250000	U 250000	U 50.0	U 50.0
Vinyl Chloride	U 10000	U 10000	U 10000	U 2.00	U 2.00

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XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : VOAs by SW-846 8260B

Client : URS Corporation-St. Louis

Work Order #: 349660

Project ID: Route111 & Rand Ave Vicinit

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
MW-8-102209	Oct. 22, 2009	Oct. 24, 2009				Oct.30, 2009	14	8	P
MW-8-102209D	Oct. 22, 2009	Oct. 24, 2009				Oct.30, 2009	14	8	P
TB102209	Oct. 22, 2009	Oct. 24, 2009				Nov.5, 2009	14	14	P
MW-7-102309	Oct. 23, 2009	Oct. 24, 2009				Oct.30, 2009	14	7	P



XENCO
CHRONOLOGY OF HOLDING TIMES

Analytical Method : SVOAs by SW-846 8270C

Client : URS Corporation-St. Louis

Work Order #: 349660

Project ID: Route111 & Rand Ave Vicinit

Field Sample ID	Date Collected	Date Received	Date Extracted	Max Holding Time Extracted (Days)	Time Held Extracted (Days)	Date Analyzed	Max Holding Time Analyzed (Days)	Time Held Analyzed (Days)	Q
MW-7-102309	Oct. 23, 2009	Oct. 24, 2009	Oct. 27, 2009	7	4	Oct.28, 2009	40	1	P
MW-8-102209	Oct. 22, 2009	Oct. 24, 2009	Oct. 27, 2009	7	5	Oct.28, 2009	40	1	P
MW-8-102209D	Oct. 22, 2009	Oct. 24, 2009	Oct. 27, 2009	7	5	Oct.28, 2009	40	1	P

F = These samples were analyzed outside the recommended holding time.

P = Samples analyzed within the recommended holding time.



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 349660,

Project ID: Route 111 & Rand Ave Vicinity/ 21561979

Lab Batch #: 778994

Sample: 541599-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L		Date Analyzed: 10/27/09 12:24		SURROGATE RECOVERY STUDY		
SVOAs by SW-846 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		0.040	0.050	80	43-116	
2-Fluorophenol		0.030	0.050	60	21-100	
Nitrobenzene-d5		0.040	0.050	80	35-114	
Phenol-d6		0.019	0.050	38	10-94	
Terphenyl-D14		0.039	0.050	78	33-141	
2,4,6-Tribromophenol		0.044	0.050	88	10-123	

Lab Batch #: 778994

Sample: 541599-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L		Date Analyzed: 10/27/09 12:59		SURROGATE RECOVERY STUDY		
SVOAs by SW-846 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		0.043	0.050	86	43-116	
2-Fluorophenol		0.033	0.050	66	21-100	
Nitrobenzene-d5		0.044	0.050	88	35-114	
Phenol-d6		0.023	0.050	46	10-94	
Terphenyl-D14		0.040	0.050	80	33-141	
2,4,6-Tribromophenol		0.047	0.050	94	10-123	

Lab Batch #: 778994

Sample: 541599-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L		Date Analyzed: 10/27/09 13:34		SURROGATE RECOVERY STUDY		
SVOAs by SW-846 8270C		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
2-Fluorobiphenyl		0.042	0.050	84	43-116	
2-Fluorophenol		0.031	0.050	62	21-100	
Nitrobenzene-d5		0.043	0.050	86	35-114	
Phenol-d6		0.021	0.050	42	10-94	
Terphenyl-D14		0.040	0.050	80	33-141	
2,4,6-Tribromophenol		0.046	0.050	92	10-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 349660,

Project ID: Route111 & Rand Ave Vicinity/ 21561979

Lab Batch #: 778994

Sample: 349660-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/28/09 14:43

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.041	0.050	82	43-116	
2-Fluorophenol	0.020	0.050	40	21-100	
Nitrobenzene-d5	0.043	0.050	86	35-114	
Phenol-d6	0.014	0.050	28	10-94	
Terphenyl-D14	0.041	0.050	82	33-141	
2,4,6-Tribromophenol	0.057	0.050	114	10-123	

Lab Batch #: 778994

Sample: 349660-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/28/09 15:18

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.038	0.050	76	43-116	
2-Fluorophenol	0.021	0.050	42	21-100	
Nitrobenzene-d5	0.038	0.050	76	35-114	
Phenol-d6	0.012	0.050	24	10-94	
Terphenyl-D14	0.040	0.050	80	33-141	
2,4,6-Tribromophenol	0.054	0.050	108	10-123	

Lab Batch #: 778994

Sample: 349660-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/28/09 15:53

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.043	0.056	77	43-116	
2-Fluorophenol	0.026	0.056	46	21-100	
Nitrobenzene-d5	0.044	0.056	79	35-114	
Phenol-d6	0.015	0.056	27	10-94	
Terphenyl-D14	0.045	0.056	80	33-141	
2,4,6-Tribromophenol	0.060	0.056	107	10-123	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B
 All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 349660,

Project ID: Route111 & Rand Ave Vicinity/ 21561979

Lab Batch #: 778994

Sample: 349660-003 / DL

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 10/28/09 21:07

SURROGATE RECOVERY STUDY

SVOAs by SW-846 8270C	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
2-Fluorobiphenyl	0.050	0.056	89	43-116	
2-Fluorophenol	0.033	0.056	59	21-100	
Nitrobenzene-d5	0.042	0.056	75	35-114	
Phenol-d6	0.016	0.056	29	10-94	
Terphenyl-D14	0.053	0.056	95	33-141	
2,4,6-Tribromophenol	0.049	0.056	88	10-123	

Lab Batch #: 779876

Sample: 542105-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 10/30/09 12:11

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0481	0.0500	96	74-124	
Dibromofluoromethane	0.0508	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0509	0.0500	102	63-144	
Toluene-D8	0.0475	0.0500	95	80-117	

Lab Batch #: 779876

Sample: 542105-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 10/30/09 12:50

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0507	0.0500	101	74-124	
Dibromofluoromethane	0.0528	0.0500	106	75-131	
1,2-Dichloroethane-D4	0.0518	0.0500	104	63-144	
Toluene-D8	0.0491	0.0500	98	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 349660,

Project ID: Route 111 & Rand Ave Vicinity/ 21561979

Lab Batch #: 779876

Sample: 349351-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/30/09 14:42

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0476	0.0500	95	74-124	
Dibromofluoromethane	0.0546	0.0500	109	75-131	
1,2-Dichloroethane-D4	0.0523	0.0500	105	63-144	
Toluene-D8	0.0480	0.0500	96	80-117	

Lab Batch #: 779876

Sample: 349351-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/30/09 15:05

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0479	0.0500	96	74-124	
Dibromofluoromethane	0.0526	0.0500	105	75-131	
1,2-Dichloroethane-D4	0.0523	0.0500	105	63-144	
Toluene-D8	0.0485	0.0500	97	80-117	

Lab Batch #: 779876

Sample: 349660-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/30/09 18:28

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0458	0.0500	92	74-124	
Dibromofluoromethane	0.0500	0.0500	100	75-131	
1,2-Dichloroethane-D4	0.0498	0.0500	100	63-144	
Toluene-D8	0.0468	0.0500	94	80-117	

Lab Batch #: 779876

Sample: 349660-001 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/30/09 18:51

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0452	0.0500	90	74-124	
Dibromofluoromethane	0.0513	0.0500	103	75-131	
1,2-Dichloroethane-D4	0.0496	0.0500	99	63-144	
Toluene-D8	0.0470	0.0500	94	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 349660,

Project ID: Route 111 & Rand Ave Vicinity/ 21561979

Lab Batch #: 779876

Sample: 349660-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/30/09 19:14

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0485	0.0500	97	74-124	
Dibromofluoromethane	0.0484	0.0500	97	75-131	
1,2-Dichloroethane-D4	0.0535	0.0500	107	63-144	
Toluene-D8	0.0470	0.0500	94	80-117	

Lab Batch #: 779876

Sample: 349660-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/30/09 19:37

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0450	0.0500	90	74-124	
Dibromofluoromethane	0.0525	0.0500	105	75-131	
1,2-Dichloroethane-D4	0.0547	0.0500	109	63-144	
Toluene-D8	0.0465	0.0500	93	80-117	

Lab Batch #: 779876

Sample: 349660-003 / DL

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/30/09 19:59

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0467	0.0500	93	74-124	
Dibromofluoromethane	0.0518	0.0500	104	75-131	
1,2-Dichloroethane-D4	0.0518	0.0500	104	63-144	
Toluene-D8	0.0466	0.0500	93	80-117	

Lab Batch #: 780836

Sample: 542659-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/05/09 10:52

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0416	0.0500	83	74-124	
Dibromofluoromethane	0.0499	0.0500	100	75-131	
1,2-Dichloroethane-D4	0.0514	0.0500	103	63-144	
Toluene-D8	0.0505	0.0500	101	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: 900 S. Central Avenue

Work Orders : 349660,

Project ID: Route111 & Rand Ave Vicinity/ 21561979

Lab Batch #: 780836

Sample: 542659-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/05/09 11:37

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0480	0.0500	96	74-124	
Dibromofluoromethane	0.0527	0.0500	105	75-131	
1,2-Dichloroethane-D4	0.0518	0.0500	104	63-144	
Toluene-D8	0.0478	0.0500	96	80-117	

Lab Batch #: 780836

Sample: 349660-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/05/09 12:07

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0481	0.0500	96	74-124	
Dibromofluoromethane	0.0511	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0553	0.0500	111	63-144	
Toluene-D8	0.0507	0.0500	101	80-117	

Lab Batch #: 780836

Sample: 349844-003 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/05/09 13:14

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0442	0.0500	88	74-124	
Dibromofluoromethane	0.0489	0.0500	98	75-131	
1,2-Dichloroethane-D4	0.0464	0.0500	93	63-144	
Toluene-D8	0.0481	0.0500	96	80-117	

Lab Batch #: 780836

Sample: 349844-003 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/05/09 13:37

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0511	0.0500	102	74-124	
Dibromofluoromethane	0.0520	0.0500	104	75-131	
1,2-Dichloroethane-D4	0.0531	0.0500	106	63-144	
Toluene-D8	0.0548	0.0500	110	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 349660

Project ID: Route111 & Rand Ave Vicinity/ 21561979

Lab Batch #: 779876

Sample: 542105-1-BKS

Matrix: Water

Date Analyzed: 10/30/2009

Date Prepared: 10/30/2009

Analyst: KHM

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	495	99	60-140	
Benzene	<1.00	50.0	47.1	94	66-142	
Bromobenzene	<1.00	50.0	53.5	107	75-125	
Bromochloromethane	<1.00	50.0	58.0	116	73-125	
Bromodichloromethane	<1.00	50.0	64.3	129	75-125	H
Bromoform	<1.00	50.0	54.7	109	75-125	
Bromomethane	<1.00	50.0	37.9	76	70-130	
2-Butanone	<10.0	500	470	94	60-140	
MTBE	<1.00	50.0	63.7	127	65-135	
n-Butylbenzene	<1.00	50.0	52.3	105	75-125	
Sec-Butylbenzene	<1.00	50.0	52.2	104	75-125	
tert-Butylbenzene	<1.00	50.0	53.7	107	75-125	
Carbon Disulfide	<10.0	500	528	106	60-140	
Carbon Tetrachloride	<1.00	50.0	61.0	122	62-125	
Chlorobenzene	<1.00	50.0	51.0	102	60-133	
Chloroethane	<2.00	50.0	43.8	88	70-130	
Chloroform	<1.00	50.0	56.8	114	74-125	
Chloromethane	<2.00	50.0	45.0	90	70-130	
2-Chlorotoluene	<1.00	50.0	50.4	101	73-125	
4-Chlorotoluene	<1.00	50.0	51.7	103	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	53.8	108	75-125	
Dibromochloromethane	<1.00	50.0	58.0	116	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	59.1	118	59-125	
Dibromomethane	<1.00	50.0	56.6	113	69-127	
1,2-Dichlorobenzene	<1.00	50.0	51.5	103	75-125	
1,3-Dichlorobenzene	<1.00	50.0	55.1	110	75-125	
1,4-Dichlorobenzene	<1.00	50.0	51.9	104	75-125	
Dichlorodifluoromethane	<1.00	50.0	63.0	126	70-130	
1,1-Dichloroethane	<1.00	50.0	56.1	112	72-125	
1,2-Dichloroethane	<1.00	50.0	59.8	120	68-127	
1,1-Dichloroethene	<1.00	50.0	57.0	114	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	54.8	110	75-125	
trans-1,2-dichloroethene	<1.00	50.0	50.1	100	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 349660

Project ID: Route111 & Rand Ave Vicinity/ 21561979

Lab Batch #: 779876

Sample: 542105-1-BKS

Matrix: Water

Date Analyzed: 10/30/2009

Date Prepared: 10/30/2009

Analyst: KHM

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	56.2	112	74-125	
1,3-Dichloropropane	<1.00	50.0	56.0	112	75-125	
2,2-Dichloropropane	<1.00	50.0	55.5	111	75-125	
1,1-Dichloropropene	<1.00	50.0	53.3	107	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	54.3	109	74-125	
trans-1,3-dichloropropene	<1.00	50.0	56.9	114	66-125	
Ethylbenzene	<1.00	50.0	52.5	105	75-125	
Hexachlorobutadiene	<1.00	50.0	50.0	100	75-125	
isopropylbenzene	<1.00	50.0	54.3	109	75-125	
Methylene Chloride	<1.00	50.0	54.3	109	75-125	
n-Propylbenzene	<1.00	50.0	52.3	105	75-125	
Styrene	<1.00	50.0	54.8	110	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	56.7	113	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	55.0	110	74-125	
Tetrachloroethylene	<1.00	50.0	53.9	108	71-125	
Toluene	<1.00	50.0	45.8	92	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	51.8	104	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	51.7	103	75-135	
1,1,1-Trichloroethane	<1.00	50.0	60.4	121	75-125	
1,1,2-Trichloroethane	<1.00	50.0	56.6	113	75-127	
Trichloroethene	<1.00	50.0	56.3	113	62-137	
Trichlorofluoromethane	<1.00	50.0	57.1	114	67-125	
1,2,3-Trichloropropane	<1.00	50.0	56.4	113	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	51.9	104	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	53.2	106	70-125	
o-Xylene	<1.00	50.0	48.0	96	75-125	
m,p-Xylenes	<2.00	100	105	105	75-125	
Vinyl Acetate	<10.0	500	377	75	60-140	
Vinyl Chloride	<0.400	50.0	47.8	96	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 349660

Project ID: Route111 & Rand Ave Vicinity/ 21561979

Lab Batch #: 780836

Sample: 542659-1-BKS

Matrix: Water

Date Analyzed: 11/05/2009

Date Prepared: 11/05/2009

Analyst: KHM

Reporting Units: ug/L

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Acetone	<20.0	500	508	102	60-140	
Benzene	<1.00	50.0	42.8	86	66-142	
Bromobenzene	<1.00	50.0	40.3	81	75-125	
Bromochloromethane	<1.00	50.0	54.0	108	73-125	
Bromodichloromethane	<1.00	50.0	49.3	99	75-125	
Bromoform	<1.00	50.0	42.7	85	75-125	
Bromomethane	<1.00	50.0	57.3	115	70-130	
2-Butanone	<10.0	500	512	102	60-140	
MTBE	<1.00	50.0	55.4	111	65-135	
n-Butylbenzene	<1.00	50.0	43.5	87	75-125	
Sec-Butylbenzene	<1.00	50.0	43.2	86	75-125	
tert-Butylbenzene	<1.00	50.0	42.7	85	75-125	
Carbon Disulfide	<10.0	500	438	88	60-140	
Carbon Tetrachloride	<1.00	50.0	43.5	87	62-125	
Chlorobenzene	<1.00	50.0	44.9	90	60-133	
Chloroethane	<2.00	50.0	57.9	116	70-130	
Chloroform	<1.00	50.0	50.3	101	74-125	
Chloromethane	<2.00	50.0	69.3	139	70-130	H
2-Chlorotoluene	<1.00	50.0	38.4	77	73-125	
4-Chlorotoluene	<1.00	50.0	44.7	89	74-125	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	44.5	89	75-125	
Dibromochloromethane	<1.00	50.0	44.0	88	73-125	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	40.6	81	59-125	
Dibromomethane	<1.00	50.0	44.4	89	69-127	
1,2-Dichlorobenzene	<1.00	50.0	42.9	86	75-125	
1,3-Dichlorobenzene	<1.00	50.0	46.2	92	75-125	
1,4-Dichlorobenzene	<1.00	50.0	41.1	82	75-125	
Dichlorodifluoromethane	<1.00	50.0	63.8	128	70-130	
1,1-Dichloroethane	<1.00	50.0	50.1	100	72-125	
1,2-Dichloroethane	<1.00	50.0	49.5	99	68-127	
1,1-Dichloroethene	<1.00	50.0	49.9	100	59-172	
cis-1,2-Dichloroethene	<1.00	50.0	51.7	103	75-125	
trans-1,2-dichloroethene	<1.00	50.0	45.6	91	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: 900 S. Central Avenue

Work Order #: 349660

Project ID: Route 111 & Rand Ave Vicinity/ 21561979

Lab Batch #: 780836

Sample: 542659-1-BKS

Matrix: Water

Date Analyzed: 11/05/2009

Date Prepared: 11/05/2009

Analyst: KHM

Reporting Units: ug/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,2-Dichloropropane	<1.00	50.0	45.2	90	74-125	
1,3-Dichloropropane	<1.00	50.0	46.7	93	75-125	
2,2-Dichloropropane	<1.00	50.0	44.7	89	75-125	
1,1-Dichloropropene	<1.00	50.0	42.7	85	75-125	
cis-1,3-Dichloropropene	<1.00	50.0	44.7	89	74-125	
trans-1,3-dichloropropene	<1.00	50.0	46.0	92	66-125	
Ethylbenzene	<1.00	50.0	45.4	91	75-125	
Hexachlorobutadiene	<1.00	50.0	38.7	77	75-125	
isopropylbenzene	<1.00	50.0	38.6	77	75-125	
Methylene Chloride	<1.00	50.0	48.7	97	75-125	
n-Propylbenzene	<1.00	50.0	40.8	82	75-125	
Styrene	<1.00	50.0	40.2	80	75-125	
1,1,1,2-Tetrachloroethane	<1.00	50.0	45.7	91	72-125	
1,1,2,2-Tetrachloroethane	<1.00	50.0	39.5	79	74-125	
Tetrachloroethylene	<1.00	50.0	44.6	89	71-125	
Toluene	<1.00	50.0	43.9	88	59-139	
1,2,3-Trichlorobenzene	<1.00	50.0	41.7	83	75-137	
1,2,4-Trichlorobenzene	<1.00	50.0	41.9	84	75-135	
1,1,1-Trichloroethane	<1.00	50.0	47.3	95	75-125	
1,1,2-Trichloroethane	<1.00	50.0	48.6	97	75-127	
Trichloroethene	<1.00	50.0	44.5	89	62-137	
Trichlorofluoromethane	<1.00	50.0	60.5	121	67-125	
1,2,3-Trichloropropane	<1.00	50.0	39.6	79	75-125	
1,2,4-Trimethylbenzene	<1.00	50.0	43.2	86	75-125	
1,3,5-Trimethylbenzene	<1.00	50.0	42.6	85	70-125	
o-Xylene	<1.00	50.0	37.7	75	75-125	
m,p-Xylenes	<2.00	100	89.0	89	75-125	
Vinyl Acetate	<10.0	500	451	90	60-140	
Vinyl Chloride	<0.400	50.0	65.2	130	75-125	H

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 349660

Analyst: KAN

Lab Batch ID: 778994

Sample: 541599-1-BKS

Date Prepared: 10/27/2009

Batch #: 1

Project ID: Route111 & Rand Ave Vicinity/ 21561979

Date Analyzed: 10/27/2009

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

SVOAs by SW-846 8270C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acenaphthene	<0.001	0.050	0.042	84	0.05	0.041	82	2	27-132	31	
Acenaphthylene	<0.001	0.050	0.041	82	0.05	0.040	80	2	46-108	25	
Aniline (Phenylamine, Aminobenzene)	<0.001	0.050	0.041	82	0.05	0.039	78	5	5-115	25	
Anthracene	<0.001	0.050	0.043	86	0.05	0.041	82	5	47-145	25	
Benzo(a)anthracene	<0.001	0.050	0.042	84	0.05	0.041	82	2	33-143	25	
Benzo(a)pyrene	<0.001	0.050	0.042	84	0.05	0.041	82	2	65-135	25	
Benzo(b)fluoranthene	<0.001	0.050	0.045	90	0.05	0.041	82	9	24-159	25	
Benzo(k)fluoranthene	<0.001	0.050	0.038	76	0.05	0.038	76	0	25-125	25	
Benzo(g,h,i)perylene	<0.001	0.050	0.040	80	0.05	0.044	88	10	65-135	25	
Benzoic Acid	<0.009	0.150	0.114	76	0.15	0.102	68	11	30-115	40	
Benzyl Butyl Phthalate	<0.001	0.050	0.040	80	0.05	0.039	78	3	65-135	25	
bis(2-chloroethoxy) methane	<0.001	0.050	0.040	80	0.05	0.040	80	0	54-188	25	
bis(2-chloroethyl) ether	<0.001	0.050	0.038	76	0.05	0.038	76	0	65-135	25	
bis(2-chloroisopropyl) ether	<0.001	0.050	0.040	80	0.05	0.040	80	0	65-135	25	
bis(2-ethylhexyl) phthalate	<0.001	0.050	0.039	78	0.05	0.039	78	0	8-158	25	
4-Bromophenyl-phenylether	<0.001	0.050	0.041	82	0.05	0.043	86	5	65-135	25	
4-chloro-3-methylphenol	<0.001	0.050	0.044	88	0.05	0.041	82	7	16-129	33	
4-Chloroaniline	<0.001	0.050	0.051	102	0.05	0.047	94	8	9-128	25	
2-Chloronaphthalene	<0.001	0.050	0.039	78	0.05	0.039	78	0	65-135	25	
2-Chlorophenol	<0.001	0.050	0.039	78	0.05	0.039	78	0	16-116	40	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 349660

Project ID: Route 111 & Rand Ave Vicinity/ 21561979

Analyst: KAN

Date Prepared: 10/27/2009

Date Analyzed: 10/27/2009

Lab Batch ID: 778994

Batch #: 1

Sample: 541599-1-BKS

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
4-Chlorophenyl Phenyl Ether		<0.001	0.050	0.043	86	0.05	0.042	84	2	65-135	25	
Chrysene		<0.001	0.050	0.042	84	0.05	0.041	82	2	65-135	25	
Dibenz(a,h)anthracene		<0.001	0.050	0.040	80	0.05	0.043	86	7	50-125	25	
Dibenzofuran		<0.001	0.050	0.043	86	0.05	0.042	84	2	52-125	25	
di-n-Butyl Phthalate		<0.003	0.050	0.044	88	0.05	0.042	84	5	49-135	50	
3,3-Dichlorobenzidine		<0.002	0.050	0.057	114	0.05	0.059	118	3	12-147	25	
2,4-Dichlorophenol		<0.001	0.050	0.042	84	0.05	0.042	84	0	65-135	25	
Diethyl Phthalate		<0.001	0.050	0.045	90	0.05	0.042	84	7	37-125	50	
Dimethyl Phthalate		<0.001	0.050	0.044	88	0.05	0.042	84	5	25-175	50	
2,4-Dimethylphenol		<0.001	0.050	0.042	84	0.05	0.039	78	7	32-119	25	
4,6-dinitro-2-methyl phenol		<0.001	0.050	0.048	96	0.05	0.044	88	9	2-181	25	
2,4-Dinitrophenol		<0.001	0.050	0.053	106	0.05	0.049	98	8	65-135	25	
2,4-Dinitrotoluene		<0.001	0.050	0.045	90	0.05	0.041	82	9	22-135	38	
2,6-Dinitrotoluene		<0.001	0.050	0.044	88	0.05	0.042	84	5	49-122	38	
di-n-Octyl Phthalate		<0.001	0.050	0.039	78	0.05	0.035	70	11	43-134	50	
Fluoranthene		<0.001	0.050	0.047	94	0.05	0.041	82	14	47-125	25	
Fluorene		<0.001	0.050	0.043	86	0.05	0.041	82	5	48-139	25	
Hexachlorobenzene		<0.001	0.050	0.040	80	0.05	0.040	80	0	46-133	25	
Hexachlorocyclopentadiene		<0.001	0.050	0.041	82	0.05	0.041	82	0	41-125	25	
Hexachloroethane *		<0.001	0.050	0.039	78	0.05	0.039	78	0	25-153	25	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$
 Blank Spike Recovery [D] = $100 * (C)/[B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$
 All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 349660

Project ID: Route111 & Rand Ave Vicinity/ 21561979

Analyst: KAN

Date Prepared: 10/27/2009

Date Analyzed: 10/27/2009

Lab Batch ID: 778994

Batch #: 1

Matrix: Water

Sample: 541599-1-BKS

Units: mg/L

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
SVOAs by SW-846 8270C											
Indeno(1,2,3-c,d)Pyrene	<0.001	0.050	0.041	82	0.05	0.044	88	7	27-160	25	
Isophorone	<0.001	0.050	0.041	82	0.05	0.040	80	2	26-175	25	
2-Methylnaphthalene	<0.001	0.050	0.042	84	0.05	0.041	82	2	25-175	25	
2-methylphenol	<0.001	0.050	0.036	72	0.05	0.034	68	6	14-176	25	
3&4-Methylphenol	<0.002	0.100	0.072	72	0.1	0.068	68	6	14-176	25	
Naphthalene	<0.001	0.050	0.041	82	0.05	0.040	80	2	26-175	25	
2-Nitroaniline	<0.001	0.050	0.045	90	0.05	0.042	84	7	65-135	25	
3-Nitroaniline	<0.002	0.050	0.056	112	0.05	0.056	112	0	65-135	25	
4-Nitroaniline	<0.001	0.050	0.056	112	0.05	0.053	106	6	65-135	25	
Nitrobenzene	<0.001	0.050	0.040	80	0.05	0.040	80	0	65-135	25	
2-Nitrophenol	<0.001	0.050	0.042	84	0.05	0.041	82	2	65-135	25	
4-Nitrophenol	<0.001	0.050	0.027	54	0.05	0.023	46	16	10-80	50	
N-Nitrosodi-n-Propylamine	<0.001	0.050	0.045	90	0.05	0.042	84	7	22-134	38	
N-Nitrosodiphenylamine	<0.002	0.050	0.041	82	0.05	0.042	84	2	2-196	25	
Pentachlorophenol	<0.001	0.050	0.043	86	0.05	0.041	82	5	17-117	50	
Phenanthrene	<0.001	0.050	0.042	84	0.05	0.041	82	2	65-135	25	
Phenol	<0.001	0.050	0.028	56	0.05	0.027	54	4	12-110	25	
Pyrene	<0.001	0.050	0.038	76	0.05	0.038	76	0	23-152	31	
Pyridine	<0.004	0.050	0.024	48	0.05	0.027	54	12	16-86	28	
2,4,5-Trichlorophenol	<0.001	0.050	0.045	90	0.05	0.044	88	2	65-135	25	

Relative Percent Difference RPD = $200 * [(C-F) / (C+F)]$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes

Project Name: 900 S. Central Avenue

Work Order #: 349660

Analyst: KAN

Lab Batch ID: 778994

Sample: 541599-1-BKS

Date Prepared: 10/27/2009

Batch #: 1

Project ID: Route 111 & Rand Ave Vicinity/ 21561979
Date Analyzed: 10/27/2009

Matrix: Water

Units: mg/L

SVOAs by SW-846 8270C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		<0.001	0.050	0.042	84	0.05	0.042	84	0	65-135	25	
2,4,6-Trichlorophenol												

Relative Percent Difference RPD = $200 * (C-F) / (C+F)$
 Blank Spike Recovery [D] = $100 * (C) / [B]$
 Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$
 All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 349660

Project ID: Route 111 & Rand Ave Vicinity/ 21561979

Lab Batch ID: 779876

Batch #: 1 Matrix: Water

Date Analyzed: 10/30/2009

QC- Sample ID: 349351-001 S Analyst: KHM

Date Prepared: 10/30/2009

Reporting Units: ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
VOAs by SW-846 8260B											
Acetone	<1.00	500	331	66	500	271	54	20	60-140	21	X
Benzene	<1.00	50.0	49.6	99	50.0	44.4	89	11	66-142	21	
Bromobenzene	<1.00	50.0	52.3	105	50.0	47.2	94	10	75-125	20	
Bromochloromethane	<1.00	50.0	63.8	128	50.0	57.9	116	10	73-125	20	X
Bromodichloromethane	<1.00	50.0	66.0	132	50.0	58.1	116	13	75-125	20	X
Bromoform	<1.00	50.0	55.9	112	50.0	49.6	99	12	75-125	20	
Bromomethane	<1.00	50.0	39.9	80	50.0	46.3	93	15	70-130	20	
2-Butanone	<50.0	500	425	85	500	333	71	19	60-140	20	
MTBE	<1.00	50.0	69.5	139	50.0	61.1	122	13	65-135	20	X
n-Butylbenzene	<1.00	50.0	52.3	105	50.0	46.7	93	11	75-125	20	
Sec-Butylbenzene	<1.00	50.0	52.4	105	50.0	47.0	94	11	75-125	20	
tert-Butylbenzene	<1.00	50.0	53.7	107	50.0	47.7	95	12	75-125	20	
Carbon Disulfide	<5.00	500	603	121	500	530	106	13	60-140	20	
Carbon Tetrachloride	<1.00	50.0	67.0	134	50.0	61.8	124	8	62-125	20	X
Chlorobenzene	<1.00	50.0	52.3	105	50.0	46.7	93	11	60-133	21	
Chloroethane	<1.00	50.0	40.5	81	50.0	47.0	94	15	70-130	20	
Chloroform	<1.00	50.0	61.7	123	50.0	53.2	106	15	74-125	20	
Chloromethane	<1.00	50.0	42.6	85	50.0	48.7	97	13	70-130	20	
2-Chlorotoluene	<1.00	50.0	49.4	99	50.0	44.5	89	10	73-125	20	
4-Chlorotoluene	<1.00	50.0	50.5	101	50.0	45.5	91	10	74-125	20	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	53.5	107	50.0	48.6	97	10	75-125	20	
Dibromochloromethane	<1.00	50.0	57.3	115	50.0	51.4	103	11	73-125	20	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	58.7	117	50.0	53.1	106	10	59-125	28	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQJ = Estimated Quantitation Limit

Project Name: 900 S. Central Avenue

Work Order #: 349660

Lab Batch ID: 779876

Date Analyzed: 10/30/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/ 21561979

Batch #: 1 Matrix: Water

Analyst: KHM

QC- Sample ID: 349351-001 S

Date Prepared: 10/30/2009

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
VOAs by SW-846 8260B											
Dibromomethane	<1.00	50.0	61.1	122	50.0	52.6	105	15	69-127	23	
1,2-Dichlorobenzene	<1.00	50.0	51.1	102	50.0	46.8	94	9	75-125	20	
1,3-Dichlorobenzene	<1.00	50.0	53.5	107	50.0	47.6	95	12	75-125	20	
1,4-Dichlorobenzene	<1.00	50.0	51.4	103	50.0	45.1	90	13	75-125	20	
Dichlorodifluoromethane	<1.00	50.0	65.9	132	50.0	72.6	145	10	70-130	23	X
1,1-Dichloroethane	<1.00	50.0	59.9	120	50.0	51.7	103	15	72-125	20	
1,2-Dichloroethane	<1.00	50.0	62.2	124	50.0	53.6	107	15	68-127	20	
1,1-Dichloroethene	<1.00	50.0	63.9	128	50.0	56.6	113	12	59-172	22	
cis-1,2-Dichloroethene	<1.00	50.0	62.9	126	50.0	53.1	106	17	75-125	20	X
trans-1,2-dichloroethene	<1.00	50.0	56.6	113	50.0	47.8	96	17	75-125	20	
1,2-Dichloropropane	<1.00	50.0	56.4	113	50.0	49.3	99	13	74-125	20	
1,3-Dichloropropane	<1.00	50.0	55.4	111	50.0	49.0	98	12	75-125	20	
2,2-Dichloropropane	<1.00	50.0	61.2	122	50.0	52.1	104	16	75-125	20	
1,1-Dichloropropene	<1.00	50.0	57.7	115	50.0	49.5	99	15	75-125	20	
cis-1,3-Dichloropropene	<1.00	50.0	54.0	108	50.0	46.3	93	15	74-125	20	
trans-1,3-dichloropropene	<1.00	50.0	54.3	109	50.0	49.3	99	10	66-125	20	
Ethylbenzene	<1.00	50.0	55.0	110	50.0	48.4	97	13	75-125	20	
Hexachlorobutadiene	<1.00	50.0	53.8	108	50.0	47.4	95	13	75-125	20	
isopropylbenzene	<1.00	50.0	56.4	113	50.0	50.1	100	12	75-125	20	
Methylene Chloride	<5.00	50.0	59.2	118	50.0	50.4	101	16	75-125	35	
n-Propylbenzene	<1.00	50.0	52.5	105	50.0	45.9	92	13	75-125	20	
Styrene	<1.00	50.0	54.4	109	50.0	44.8	90	19	75-125	51	
1,1,1,2-Tetrachloroethane	<1.00	50.0	59.2	118	50.0	53.0	106	11	72-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 349660

Lab Batch ID: 779876

Date Analyzed: 10/30/2009

Reporting Units: ug/L

QC- Sample ID: 349351-001 S

Date Prepared: 10/30/2009

Batch #: 1 Matrix: Water

Analyst: KHM

Project ID: Route111 & Rand Ave Vicinity/ 21561979

VOAs by SW-846 8260B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<1.00	50.0	57.7	115	50.0	48.6	97	17	74-125	31	
Tetrachloroethylene	<1.00	50.0	55.0	110	50.0	49.8	100	10	71-125	20	
Toluene	<1.00	50.0	47.6	95	50.0	42.1	84	12	59-139	21	
1,2,3-Trichlorobenzene	<1.00	50.0	57.6	115	50.0	50.0	100	14	75-137	20	
1,2,4-Trichlorobenzene	<1.00	50.0	52.0	104	50.0	47.1	94	10	75-135	20	
1,1,1-Trichloroethane	<1.00	50.0	67.9	136	50.0	59.5	119	13	75-125	20	X
1,1,2-Trichloroethane	<1.00	50.0	57.6	115	50.0	51.5	103	11	75-127	20	
Trichloroethene	<1.00	50.0	58.5	117	50.0	51.8	104	12	62-137	24	
Trichlorofluoromethane	<1.00	50.0	56.9	114	50.0	65.3	131	14	67-125	20	X
1,2,3-Trichloropropane	<1.00	50.0	59.4	119	50.0	50.9	102	15	75-125	20	
1,2,4-Trimethylbenzene	<1.00	50.0	51.7	103	50.0	44.8	90	14	75-125	20	
1,3,5-Trimethylbenzene	<1.00	50.0	52.2	104	50.0	44.5	89	16	70-125	20	
o-Xylene	<1.00	50.0	50.3	101	50.0	43.8	88	14	75-125	20	
m,p-Xylenes	<2.00	100	107	107	100	94.8	95	12	75-125	20	
Vinyl Acetate	<50.0	500	382	76	500	324	65	16	60-140	20	
Vinyl Chloride	<1.00	50.0	45.0	90	50.0	51.7	103	14	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*((C-F)/(C+F))

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQ = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries

Project Name: 900 S. Central Avenue



Work Order #: 349660

Lab Batch ID: 780836

Date Analyzed: 11/05/2009

Reporting Units: ug/L

Project ID: Route 111 & Rand Ave Vicinity/ 21561979

Batch #: 1 Matrix: Water

QC- Sample ID: 349844-003 S Analyst: KHM

Date Prepared: 11/05/2009

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Acetone	<100	500	274	55	500	326	65	17	60-140	21	X
Benzene	<5.00	50.0	44.3	89	50.0	50.1	100	12	66-142	21	
Bromobenzene	<5.00	50.0	37.9	76	50.0	51.9	104	31	75-125	20	F
Bromochloromethane	<5.00	50.0	52.3	105	50.0	60.3	121	14	73-125	20	
Bromodichloromethane	<5.00	50.0	49.1	98	50.0	58.6	117	18	75-125	20	
Bromoform	<5.00	50.0	44.3	89	50.0	53.0	106	18	75-125	20	
Bromomethane	<5.00	50.0	46.1	92	50.0	44.3	89	4	70-130	20	
2-Butanone	<50.0	500	374	75	500	488	98	26	60-140	20	F
MTBE	<5.00	50.0	51.2	102	50.0	59.2	118	14	65-135	20	
n-Butylbenzene	<5.00	50.0	38.8	78	50.0	50.4	101	26	75-125	20	F
Sec-Butylbenzene	<5.00	50.0	41.6	83	50.0	47.9	96	14	75-125	20	
tert-Butylbenzene	<5.00	50.0	41.6	83	50.0	47.5	95	13	75-125	20	
Carbon Disulfide	<50.0	500	433	87	500	505	101	15	60-140	20	
Carbon Tetrachloride	<5.00	50.0	44.8	90	50.0	48.5	97	8	62-125	20	
Chlorobenzene	<5.00	50.0	45.3	91	50.0	52.8	106	15	60-133	21	
Chloroethane	<10.0	50.0	53.1	106	50.0	51.3	103	3	70-130	20	
Chloroform	<5.00	50.0	46.3	93	50.0	55.7	111	18	74-125	20	
Chloromethane	<10.0	50.0	50.2	100	50.0	47.0	94	7	70-130	20	
2-Chlorotoluene	<5.00	50.0	36.2	72	50.0	50.8	102	34	73-125	20	XF
4-Chlorotoluene	<5.00	50.0	39.7	79	50.0	53.7	107	30	74-125	20	F
p-Cymene (p-Isopropyltoluene)	<5.00	50.0	42.8	86	50.0	48.3	97	12	75-125	20	
Dibromochloromethane	<5.00	50.0	42.1	84	50.0	51.5	103	20	73-125	20	
1,2-Dibromo-3-Chloropropane	<5.00	50.0	36.1	72	50.0	49.7	99	32	59-125	28	F

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 349660

Project ID: Route 111 & Rand Ave Vicinity/ 21561979

Lab Batch ID: 780836

Batch #: 1 Matrix: Water

Date Analyzed: 11/05/2009

QC- Sample ID: 349844-003 S Analyst: KHM

Reporting Units: ug/L

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
VOAs by SW-846 8260B											
Dibromomethane	<5.00	50.0	44.5	89	50.0	54.7	109	21	69-127	23	
1,2-Dichlorobenzene	<5.00	50.0	39.3	79	50.0	50.9	102	26	75-125	20	F
1,3-Dichlorobenzene	<5.00	50.0	45.3	91	50.0	52.4	105	15	75-125	20	
1,4-Dichlorobenzene	<5.00	50.0	39.8	80	50.0	46.2	92	15	75-125	20	
Dichlorodifluoromethane	<5.00	50.0	60.4	121	50.0	55.2	110	9	70-130	23	
1,1-Dichloroethane	<5.00	50.0	46.1	92	50.0	54.3	109	16	72-125	20	
1,2-Dichloroethane	1.39	50.0	51.3	100	50.0	58.7	115	13	68-127	20	
1,1-Dichloroethene	<5.00	50.0	47.4	95	50.0	55.8	112	16	59-172	22	
cis-1,2-Dichloroethene	<5.00	50.0	48.4	97	50.0	58.9	118	20	75-125	20	
trans-1,2-dichloroethene	<5.00	50.0	43.5	87	50.0	48.3	97	10	75-125	20	
1,2-Dichloropropane	<5.00	50.0	48.7	97	50.0	54.6	109	11	74-125	20	
1,3-Dichloropropane	<5.00	50.0	46.7	93	50.0	54.6	109	16	75-125	20	
2,2-Dichloropropane	<5.00	50.0	39.1	78	50.0	46.5	93	17	75-125	20	
1,1-Dichloropropene	<5.00	50.0	46.3	93	50.0	49.5	99	7	75-125	20	
cis-1,3-Dichloropropene	<5.00	50.0	43.3	87	50.0	52.9	106	20	74-125	20	
trans-1,3-dichloropropene	<5.00	50.0	42.1	84	50.0	55.0	110	27	66-125	20	F
Ethylbenzene	1.14	50.0	47.7	93	50.0	54.9	108	14	75-125	20	
Hexachlorobutadiene	<5.00	50.0	36.0	72	50.0	47.7	95	28	75-125	20	XF
isopropylbenzene	<5.00	50.0	40.5	81	50.0	49.3	99	20	75-125	20	
Methylene Chloride	4.57	50.0	51.7	94	50.0	59.9	111	15	75-125	35	
n-Propylbenzene	<5.00	50.0	39.1	78	50.0	53.1	106	30	75-125	20	F
Styrene	<5.00	50.0	43.5	87	50.0	42.4	85	3	75-125	51	
1,1,1,2-Tetrachloroethane	<5.00	50.0	44.7	89	50.0	53.7	107	18	72-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries



Project Name: 900 S. Central Avenue

Work Order #: 349660

Lab Batch ID: 780836

Date Analyzed: 11/05/2009

Reporting Units: ug/L

Project ID: Route111 & Rand Ave Vicinity/ 21561979

QC- Sample ID: 349844-003 S

Batch #: 1

Matrix: Water

Date Prepared: 11/05/2009

Analyst: KHM

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,2,2-Tetrachloroethane	<5.00	50.0	37.4	75	50.0	52.8	106	34	74-125	31	F
Tetrachloroethylene	<5.00	50.0	44.2	88	50.0	50.2	100	13	71-125	20	
Toluene	<5.00	50.0	42.0	84	50.0	51.3	103	20	59-139	21	
1,2,3-Trichlorobenzene	<5.00	50.0	38.0	76	50.0	52.1	104	31	75-137	20	F
1,2,4-Trichlorobenzene	<5.00	50.0	40.3	81	50.0	49.6	99	21	75-135	20	F
1,1,1-Trichloroethane	<5.00	50.0	48.4	97	50.0	53.3	107	10	75-125	20	
1,1,2-Trichloroethane	<5.00	50.0	47.2	94	50.0	56.9	114	19	75-127	20	
Trichloroethene	<5.00	50.0	44.6	89	50.0	49.8	100	11	62-137	24	
Trichlorofluoromethane	<5.00	50.0	53.1	106	50.0	49.7	99	7	67-125	20	
1,2,3-Trichloropropane	<5.00	50.0	36.7	73	50.0	52.7	105	36	75-125	20	XF
1,2,4-Trimethylbenzene	1.56	50.0	43.5	84	50.0	46.5	90	7	75-125	20	
1,3,5-Trimethylbenzene	<5.00	50.0	38.4	77	50.0	49.8	100	26	70-125	20	F
o-Xylene	<5.00	50.0	42.3	85	50.0	47.6	95	12	75-125	20	
m,p-Xylenes	2.50	100	99.3	97	100	111	109	11	75-125	20	
Vinyl Acetate	<50.0	500	380	76	500	466	93	20	60-140	20	
Vinyl Chloride	<2.00	50.0	57.7	115	50.0	51.5	103	11	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

LAB (LOCATION)

4143 Greenbrier Dr., Snelgrove, TX 77477
PH: 281-240-4200, FAX: 281-240-4280

- XENCO
- CALSCIENCE
- TEST AMERICA
- SPL
- OTHER



Shell Oil Products Chain Of Custody Record

- Please Check Appropriate Box:**
- ENV. SERVICES
 - MOTIVA SDCM
 - SHELL PIPELINE
 - CALSCIENCE
 - MOTIVA RETAIL
 - SHELL RETAIL
 - TEST AMERICA
 - CONSULTANT
 - LUBES
 - OTHER

Print Bill To Contact Name:
Wendy Pennington

INCIDENT # (ENV. SERVICES):
9 7 2 1 6 6

PO # 3 4 0 0 6 1

CHECK IF NO INCIDENT # APPLIES

PK-DATE: 10/23/09

PAGE: 1 of 1

CONSULTANT COMPANY: **URS CORPORATION**

ADDRESS: **URS CORPORATION - FIELD OFFICE**
1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300
170 E. RAND AVENUE

CITY: **HARTFORD, ILLINOIS 62048**

TELEPHONE: OFF: 314-743-4166 OFF: 314-743-4166
CELL: 314-452-8929 CELL: 314-452-8929

FAX: _____

E-MAIL: **wendy_pennington@urscorp.com**

ST. LOUIS, MISSOURI 63110

CONSULTANT PROJECT NAME (NO. LAB USE ONLY): **Route 111 & Rand Ave Vicinity / 21561979**

CONSULTANT PROJECT CONTACT (REPORT): **WENDY PENNINGTON**

SAMPLER NAME(S) (PRINT): **Nedra Salamin / Mike Corbett**

LAB USE ONLY: **249060-11**

LAB USE ONLY	FIELD SAMPLE IDENTIFICATION		SAMPLING DATE	TIME	MATRIX	PRESERVATIVE				NO. OF CONT.	LAB USE ONLY	REQUESTED ANALYSIS	SAMPLER NAME(S) (PRINT)	LAB USE ONLY	PID (ppm)	Laboratory Notes	
	MW-8-102209	MW-9-102309				MW-8-102209D	TB102209	HCL	HN03								HB04
	MW-8-102209		10/21/09	1500	water	X					X						
	MW-9-102309		10/23/09	1030		X					X						
	MW-8-102209D		10/22/09	1500		X					X						
	TB102209		10/21/09			X					X						

DELIVERABLES: LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 OTHER (SPECIFY) _____ EDD _____

TURNAROUND TIME (CALENDAR DAYS): STANDARD (10 DAY) 5 DAYS 3 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

TEMPERATURE ON RECEIPT °C: _____ Cooler #1: **1** Cooler #2: _____ Cooler #3: _____

SPECIAL INSTRUCTIONS OR NOTES: SHELL CONTRACT RATE APPLIES

Please include "J" values on Level 2 Reports

Please provide sample receipt upon login.

Relinquished by: (Signature)	Date	Time
<i>Salamin</i>	10/23/09	1300
<i>Salamin</i>	10-24-09	9:30

RECEIVED BY: (Signature) *Salamin* DATE: 10/23/09 TIME: 1300

RECEIVED BY: (Signature) *FedEx* DATE: 10-24-09 TIME: 9:30



Prelogin / Nonconformance Report - Sample Log-In

Client: WRP
Date/Time: 10/24/09
Lab ID #: 349660
Initials: [Signature]

[Signature]

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	<u>Yes</u>	No		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No. <u>NA</u>	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
<u>51</u> lbs	<u>1.8</u> °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: (004) TB just only (2), COC page (3)

Corrective Action Taken: _____

Check all that apply: Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Roxana Data Review

Laboratory SDG: 0911102A

Reviewer: Tony Sedlacek

Date Reviewed: 1/7/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-1-5	VMP-1-8.5
VMP-1-23.5	VMP-1-38.5
VMP-2-5	VMP-2-8.5
VMP-2-8.5-D	VMP-2-22
VMP-2-42	VMP-3-5
VMP-3-22	VMP-3-31.5
VMP-3-39	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative did not indicate any problems, however, LCS recoveries were outside evaluation criteria, and the hexane result in sample VMP-3-31.5 was qualified using professional judgment. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
0911102A-16A	VOCs	Methylene chloride	67	N/A	70-130
0911102A-16B	VOCs	Ethanol	144	N/A	60-140
0911102A-16C	VOCs	Ethanol	140	N/A	60-140
0911102A-16D	VOCs	Ethanol	69	N/A	70-130

Analytical data that required qualification based on LCS data are included in the table below. Ethanol results were reported nondetect in all samples associated with LCS recoveries above evaluation criteria, indicating a possible high bias, and did not require qualification.

Field ID	Parameter	Analyte	Qualification
VMP-2-8.5	VOCs	Methylene chloride	UJ
VMP-2-8.5-D	VOCs	Methylene chloride	UJ
VMP-3-5	VOCs	Methylene chloride	UJ
VMP-2-42	VOCs	Ethanol	UJ
VMP-3-22	VOCs	Ethanol	UJ

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No, MS/MSD samples are not collected for Method TO-15 since spiking material is unable to be added to the summa canister.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

Yes, samples VMP-1-5 and VMP-2-8.5 were duplicated and analyzed for VOCs.

Were laboratory duplicate sample RPDs within criteria?

Yes

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-2-8.5	VMP-2-8.5-D

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes

Professional judgment was used to qualify the hexane result in sample VMP-3-31.5. The hexane result exceeded the calibration range of the instrument and was qualified "E" by the laboratory.

Sample ID	Analyte	New RL	Qualification	Comment
VMP-3-31.5	Hexane	-	J	Professional Judgment

11/24/2009
Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana, IL/ Dissolved Phase
Project #: URS 21562175.00005
Workorder #: 0911102A

Dear Mr. Mike Miller

The following report includes the data for the above referenced project for sample(s) received on 11/5/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 0911102A

Work Order Summary

CLIENT:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-566-3073	P.O. #	
FAX:		PROJECT #	URS 21562175.00005 Roxana, IL/
DATE RECEIVED:	11/05/2009	CONTACT:	Dissolved Phase Ausha Scott
DATE COMPLETED:	11/24/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-1-5	Modified TO-15	4.5 "Hg	15 psi
01AA	VMP-1-5 Lab Duplicate	Modified TO-15	4.5 "Hg	15 psi
02A	VMP-1-8.5	Modified TO-15	3.5 "Hg	15 psi
03A	VMP-1-23.5	Modified TO-15	4.5 "Hg	15 psi
04A	VMP-1-38.5	Modified TO-15	3.0 "Hg	15 psi
05A	VMP-2-5	Modified TO-15	4.0 "Hg	15 psi
06A	VMP-2-8.5	Modified TO-15	0.5 "Hg	15 psi
06AA	VMP-2-8.5 Lab Duplicate	Modified TO-15	0.5 "Hg	15 psi
07A	VMP-2-8.5-D	Modified TO-15	2.0 "Hg	15 psi
08A	VMP-2-22	Modified TO-15	3.0 "Hg	15 psi
09A	VMP-2-42	Modified TO-15	2.5 "Hg	15 psi
10A	VMP-3-5	Modified TO-15	7.5 "Hg	15 psi
11A	VMP-3-22	Modified TO-15	4.0 "Hg	15 psi
12A	VMP-3-31.5	Modified TO-15	5.5 "Hg	15 psi
13A	VMP-3-39	Modified TO-15	5.5 "Hg	15 psi
14A	Lab Blank	Modified TO-15	NA	NA
14B	Lab Blank	Modified TO-15	NA	NA

Continued on next page

WORK ORDER #: 0911102A

Work Order Summary

CLIENT: Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-566-3073

FAX:

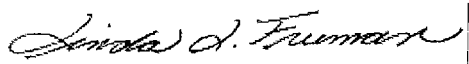
DATE RECEIVED: 11/05/2009

DATE COMPLETED: 11/24/2009

P.O. #

PROJECT # URS 21562175.00005 Roxana, IL/
CONTACT: Dissolved Phase
Ausha Scott

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
14C	Lab Blank	Modified TO-15	NA	NA
14D	Lab Blank	Modified TO-15	NA	NA
15A	CCV	Modified TO-15	NA	NA
15B	CCV	Modified TO-15	NA	NA
15C	CCV	Modified TO-15	NA	NA
15D	CCV	Modified TO-15	NA	NA
16A	LCS	Modified TO-15	NA	NA
16B	LCS	Modified TO-15	NA	NA
16C	LCS	Modified TO-15	NA	NA
16D	LCS	Modified TO-15	NA	NA

CERTIFIED BY: 

Laboratory Director

DATE: 11/24/09

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15 Std & Soil Gas
URS Corporation
Workorder# 0911102A**

Thirteen 1 Liter Summa Canister samples were received on November 05, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan mode. The method involves concentrating up to 1.0 liter of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Daily CCV	+/- 30% Difference	<= 30% Difference with two allowed out up to <=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-1-5

Lab ID#: 0911102A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	120	15000	420	53000
Cyclohexane	120	5200	410	18000
2,2,4-Trimethylpentane	120	46000	560	220000
Heptane	120	940	490	3800
Toluene	120	170	450	630

Client Sample ID: VMP-1-5 Lab Duplicate

Lab ID#: 0911102A-01AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	120	13000	420	47000
Cyclohexane	120	5100	410	18000
2,2,4-Trimethylpentane	120	47000	560	220000
Heptane	120	820	490	3400
Toluene	120	180	450	670

Client Sample ID: VMP-1-8.5

Lab ID#: 0911102A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	160	4600	580	16000
Cyclohexane	160	3900	560	14000
2,2,4-Trimethylpentane	160	79000	760	370000
Heptane	160	420	670	1700

Client Sample ID: VMP-1-23.5

Lab ID#: 0911102A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	400	39000	1400	140000
Cyclohexane	400	19000	1400	66000
2,2,4-Trimethylpentane	400	200000	1800	920000
Heptane	400	5800	1600	24000

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-1-38.5

Lab ID#: 0911102A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1100	190000	2500	420000
Hexane	1100	290000	3900	1000000
Cyclohexane	1100	110000	3800	380000
2,2,4-Trimethylpentane	1100	520000	5200	2400000
Benzene	1100	1200	3600	3800
Heptane	1100	32000	4600	130000

Client Sample ID: VMP-2-5

Lab ID#: 0911102A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	140	3600	510	13000
Cyclohexane	140	2300	500	8000
2,2,4-Trimethylpentane	140	59000	680	270000
Heptane	140	310	600	1300

Client Sample ID: VMP-2-8.5

Lab ID#: 0911102A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	51	71	180	240
2,2,4-Trimethylpentane	51	16000	240	74000

Client Sample ID: VMP-2-8.5 Lab Duplicate

Lab ID#: 0911102A-06AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	100	16000	480	74000

Client Sample ID: VMP-2-8.5-D

Lab ID#: 0911102A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	54	84	180	290

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-2-8.5-D

Lab ID#: 0911102A-07A

2,2,4-Trimethylpentane	54	18000	250	82000
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Client Sample ID: VMP-2-22

Lab ID#: 0911102A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	280	3800	990	13000
Cyclohexane	280	3300	960	11000
2,2,4-Trimethylpentane	280	130000	1300	600000
Heptane	280	400	1100	1600

Client Sample ID: VMP-2-42

Lab ID#: 0911102A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	5500	2000000	19000	7000000
Cyclohexane	5500	270000	19000	920000
2,2,4-Trimethylpentane	5500	370000	26000	1700000
Benzene	5500	26000	18000	84000
Heptane	5500	440000	22000	1800000
Toluene	5500	16000	21000	59000
Ethyl Benzene	5500	30000	24000	130000
m,p-Xylene	5500	36000	24000	160000
o-Xylene	5500	13000	24000	58000

Client Sample ID: VMP-3-5

Lab ID#: 0911102A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	5.4	160	19	580
Cyclohexane	5.4	66	18	230
2,2,4-Trimethylpentane	5.4	1400	25	6400
Heptane	5.4	39	22	160
Ethyl Benzene	5.4	15	23	65
m,p-Xylene	5.4	24	23	100
o-Xylene	5.4	10	23	45
4-Ethyltoluene	5.4	7.2	26	35

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-3-22

Lab ID#: 0911102A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	3900	1400000	14000	4900000
Cyclohexane	3900	290000	13000	980000
2,2,4-Trimethylpentane	3900	810000	18000	3800000
Benzene	3900	16000	12000	52000
Heptane	3900	76000	16000	310000
m,p-Xylene	3900	5100	17000	22000
Propylbenzene	3900	4800	19000	24000

Client Sample ID: VMP-3-31.5

Lab ID#: 0911102A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	6200	5200000 E	22000	18000000 E
Cyclohexane	6200	270000	21000	920000
2,2,4-Trimethylpentane	6200	1400000	29000	6800000
Benzene	6200	74000	20000	240000
Heptane	6200	210000	25000	870000
Toluene	6200	6800	23000	25000
Ethyl Benzene	6200	18000	27000	78000
m,p-Xylene	6200	29000	27000	130000

Client Sample ID: VMP-3-39

Lab ID#: 0911102A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	12000	5000000	44000	18000000
Cyclohexane	12000	230000	42000	790000
2,2,4-Trimethylpentane	12000	1500000	58000	7100000
Benzene	12000	74000	39000	240000
Heptane	12000	190000	51000	780000
Ethyl Benzene	12000	16000	54000	70000
m,p-Xylene	12000	26000	54000	110000



Client Sample ID: VMP-1-5

Lab ID#: 0911102A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112021	Date of Collection: 11/2/09 10:04:00 AM
Dil. Factor:	23.8	Date of Analysis: 11/21/09 03:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	120	Not Detected	590	Not Detected
Freon 114	120	Not Detected	830	Not Detected
Chloromethane	480	Not Detected	980	Not Detected
Vinyl Chloride	120	Not Detected	300	Not Detected
1,3-Butadiene	120	Not Detected	260	Not Detected
Bromomethane	120	Not Detected	460	Not Detected
Chloroethane	120	Not Detected	310	Not Detected
Freon 11	120	Not Detected	670	Not Detected
Ethanol	480	Not Detected	900	Not Detected
Freon 113	120	Not Detected	910	Not Detected
1,1-Dichloroethene	120	Not Detected	470	Not Detected
Acetone	480	Not Detected	1100	Not Detected
2-Propanol	480	Not Detected	1200	Not Detected
Carbon Disulfide	120	Not Detected	370	Not Detected
3-Chloropropene	480	Not Detected	1500	Not Detected
Methylene Chloride	120	Not Detected	410	Not Detected
Methyl tert-butyl ether	120	Not Detected	430	Not Detected
trans-1,2-Dichloroethene	120	Not Detected	470	Not Detected
Hexane	120	15000	420	53000
1,1-Dichloroethane	120	Not Detected	480	Not Detected
2-Butanone (Methyl Ethyl Ketone)	120	Not Detected	350	Not Detected
cis-1,2-Dichloroethene	120	Not Detected	470	Not Detected
Tetrahydrofuran	120	Not Detected	350	Not Detected
Chloroform	120	Not Detected	580	Not Detected
1,1,1-Trichloroethane	120	Not Detected	650	Not Detected
Cyclohexane	120	5200	410	18000
Carbon Tetrachloride	120	Not Detected	750	Not Detected
2,2,4-Trimethylpentane	120	46000	560	220000
Benzene	120	Not Detected	380	Not Detected
1,2-Dichloroethane	120	Not Detected	480	Not Detected
Heptane	120	940	490	3800
Trichloroethene	120	Not Detected	640	Not Detected
1,2-Dichloropropane	120	Not Detected	550	Not Detected
1,4-Dioxane	480	Not Detected	1700	Not Detected
Bromodichloromethane	120	Not Detected	800	Not Detected
cis-1,3-Dichloropropene	120	Not Detected	540	Not Detected
4-Methyl-2-pentanone	120	Not Detected	490	Not Detected
Toluene	120	170	450	630
trans-1,3-Dichloropropene	120	Not Detected	540	Not Detected

Client Sample ID: VMP-1-5

Lab ID#: 0911102A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112021	Date of Collection: 11/2/09 10:04:00 AM
Dil. Factor:	23.8	Date of Analysis: 11/21/09 03:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	120	Not Detected	650	Not Detected
Tetrachloroethene	120	Not Detected	810	Not Detected
2-Hexanone	480	Not Detected	1900	Not Detected
Dibromochloromethane	120	Not Detected	1000	Not Detected
1,2-Dibromoethane (EDB)	120	Not Detected	910	Not Detected
Chlorobenzene	120	Not Detected	550	Not Detected
Ethyl Benzene	120	Not Detected	520	Not Detected
m,p-Xylene	120	Not Detected	520	Not Detected
o-Xylene	120	Not Detected	520	Not Detected
Styrene	120	Not Detected	510	Not Detected
Bromoform	120	Not Detected	1200	Not Detected
Cumene	120	Not Detected	580	Not Detected
1,1,2,2-Tetrachloroethane	120	Not Detected	820	Not Detected
Propylbenzene	120	Not Detected	580	Not Detected
4-Ethyltoluene	120	Not Detected	580	Not Detected
1,3,5-Trimethylbenzene	120	Not Detected	580	Not Detected
1,2,4-Trimethylbenzene	120	Not Detected	580	Not Detected
1,3-Dichlorobenzene	120	Not Detected	720	Not Detected
1,4-Dichlorobenzene	120	Not Detected	720	Not Detected
alpha-Chlorotoluene	120	Not Detected	620	Not Detected
1,2-Dichlorobenzene	120	Not Detected	720	Not Detected
1,2,4-Trichlorobenzene	480	Not Detected	3500	Not Detected
Hexachlorobutadiene	480	Not Detected	5100	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	107	70-130



Client Sample ID: VMP-1-5 Lab Duplicate

Lab ID#: 0911102A-01AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112022	Date of Collection:	11/2/09 10:04:00 AM
Dil. Factor:	23.8	Date of Analysis:	11/21/09 03:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	120	Not Detected	590	Not Detected
Freon 114	120	Not Detected	830	Not Detected
Chloromethane	480	Not Detected	980	Not Detected
Vinyl Chloride	120	Not Detected	300	Not Detected
1,3-Butadiene	120	Not Detected	260	Not Detected
Bromomethane	120	Not Detected	460	Not Detected
Chloroethane	120	Not Detected	310	Not Detected
Freon 11	120	Not Detected	670	Not Detected
Ethanol	480	Not Detected	900	Not Detected
Freon 113	120	Not Detected	910	Not Detected
1,1-Dichloroethene	120	Not Detected	470	Not Detected
Acetone	480	Not Detected	1100	Not Detected
2-Propanol	480	Not Detected	1200	Not Detected
Carbon Disulfide	120	Not Detected	370	Not Detected
3-Chloropropene	480	Not Detected	1500	Not Detected
Methylene Chloride	120	Not Detected	410	Not Detected
Methyl tert-butyl ether	120	Not Detected	430	Not Detected
trans-1,2-Dichloroethene	120	Not Detected	470	Not Detected
Hexane	120	13000	420	47000
1,1-Dichloroethane	120	Not Detected	480	Not Detected
2-Butanone (Methyl Ethyl Ketone)	120	Not Detected	350	Not Detected
cis-1,2-Dichloroethene	120	Not Detected	470	Not Detected
Tetrahydrofuran	120	Not Detected	350	Not Detected
Chloroform	120	Not Detected	580	Not Detected
1,1,1-Trichloroethane	120	Not Detected	650	Not Detected
Cyclohexane	120	5100	410	18000
Carbon Tetrachloride	120	Not Detected	750	Not Detected
2,2,4-Trimethylpentane	120	47000	560	220000
Benzene	120	Not Detected	380	Not Detected
1,2-Dichloroethane	120	Not Detected	480	Not Detected
Heptane	120	820	490	3400
Trichloroethene	120	Not Detected	640	Not Detected
1,2-Dichloropropane	120	Not Detected	550	Not Detected
1,4-Dioxane	480	Not Detected	1700	Not Detected
Bromodichloromethane	120	Not Detected	800	Not Detected
cis-1,3-Dichloropropene	120	Not Detected	540	Not Detected
4-Methyl-2-pentanone	120	Not Detected	490	Not Detected
Toluene	120	180	450	670
trans-1,3-Dichloropropene	120	Not Detected	540	Not Detected



Client Sample ID: VMP-1-5 Lab Duplicate

Lab ID#: 0911102A-01AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112022	Date of Collection: 11/2/09 10:04:00 AM
Dil. Factor:	23.8	Date of Analysis: 11/21/09 03:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	120	Not Detected	650	Not Detected
Tetrachloroethene	120	Not Detected	810	Not Detected
2-Hexanone	480	Not Detected	1900	Not Detected
Dibromochloromethane	120	Not Detected	1000	Not Detected
1,2-Dibromoethane (EDB)	120	Not Detected	910	Not Detected
Chlorobenzene	120	Not Detected	550	Not Detected
Ethyl Benzene	120	Not Detected	520	Not Detected
m,p-Xylene	120	Not Detected	520	Not Detected
o-Xylene	120	Not Detected	520	Not Detected
Styrene	120	Not Detected	510	Not Detected
Bromoform	120	Not Detected	1200	Not Detected
Cumene	120	Not Detected	580	Not Detected
1,1,2,2-Tetrachloroethane	120	Not Detected	820	Not Detected
Propylbenzene	120	Not Detected	580	Not Detected
4-Ethyltoluene	120	Not Detected	580	Not Detected
1,3,5-Trimethylbenzene	120	Not Detected	580	Not Detected
1,2,4-Trimethylbenzene	120	Not Detected	580	Not Detected
1,3-Dichlorobenzene	120	Not Detected	720	Not Detected
1,4-Dichlorobenzene	120	Not Detected	720	Not Detected
alpha-Chlorotoluene	120	Not Detected	620	Not Detected
1,2-Dichlorobenzene	120	Not Detected	720	Not Detected
1,2,4-Trichlorobenzene	480	Not Detected	3500	Not Detected
Hexachlorobutadiene	480	Not Detected	5100	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	104	70-130



Client Sample ID: VMP-1-8.5

Lab ID#: 0911102A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112012	Date of Collection: 11/2/09 11:10:00 AM
Dil. Factor:	32.7	Date of Analysis: 11/21/09 09:50 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	160	Not Detected	810	Not Detected
Freon 114	160	Not Detected	1100	Not Detected
Chloromethane	650	Not Detected	1400	Not Detected
Vinyl Chloride	160	Not Detected	420	Not Detected
1,3-Butadiene	160	Not Detected	360	Not Detected
Bromomethane	160	Not Detected	630	Not Detected
Chloroethane	160	Not Detected	430	Not Detected
Freon 11	160	Not Detected	920	Not Detected
Ethanol	650	Not Detected	1200	Not Detected
Freon 113	160	Not Detected	1200	Not Detected
1,1-Dichloroethene	160	Not Detected	650	Not Detected
Acetone	650	Not Detected	1600	Not Detected
2-Propanol	650	Not Detected	1600	Not Detected
Carbon Disulfide	160	Not Detected	510	Not Detected
3-Chloropropene	650	Not Detected	2000	Not Detected
Methylene Chloride	160	Not Detected	570	Not Detected
Methyl tert-butyl ether	160	Not Detected	590	Not Detected
trans-1,2-Dichloroethene	160	Not Detected	650	Not Detected
Hexane	160	4600	580	16000
1,1-Dichloroethane	160	Not Detected	660	Not Detected
2-Butanone (Methyl Ethyl Ketone)	160	Not Detected	480	Not Detected
cis-1,2-Dichloroethene	160	Not Detected	650	Not Detected
Tetrahydrofuran	160	Not Detected	480	Not Detected
Chloroform	160	Not Detected	800	Not Detected
1,1,1-Trichloroethane	160	Not Detected	890	Not Detected
Cyclohexane	160	3900	560	14000
Carbon Tetrachloride	160	Not Detected	1000	Not Detected
2,2,4-Trimethylpentane	160	79000	760	370000
Benzene	160	Not Detected	520	Not Detected
1,2-Dichloroethane	160	Not Detected	660	Not Detected
Heptane	160	420	670	1700
Trichloroethene	160	Not Detected	880	Not Detected
1,2-Dichloropropane	160	Not Detected	760	Not Detected
1,4-Dioxane	650	Not Detected	2400	Not Detected
Bromodichloromethane	160	Not Detected	1100	Not Detected
cis-1,3-Dichloropropene	160	Not Detected	740	Not Detected
4-Methyl-2-pentanone	160	Not Detected	670	Not Detected
Toluene	160	Not Detected	620	Not Detected
trans-1,3-Dichloropropene	160	Not Detected	740	Not Detected



Client Sample ID: VMP-1-8.5

Lab ID#: 0911102A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112012	Date of Collection: 11/2/09 11:10:00 AM
Dil. Factor:	32.7	Date of Analysis: 11/21/09 09:50 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	160	Not Detected	890	Not Detected
Tetrachloroethene	160	Not Detected	1100	Not Detected
2-Hexanone	650	Not Detected	2700	Not Detected
Dibromochloromethane	160	Not Detected	1400	Not Detected
1,2-Dibromoethane (EDB)	160	Not Detected	1200	Not Detected
Chlorobenzene	160	Not Detected	750	Not Detected
Ethyl Benzene	160	Not Detected	710	Not Detected
m,p-Xylene	160	Not Detected	710	Not Detected
o-Xylene	160	Not Detected	710	Not Detected
Styrene	160	Not Detected	700	Not Detected
Bromoform	160	Not Detected	1700	Not Detected
Cumene	160	Not Detected	800	Not Detected
1,1,2,2-Tetrachloroethane	160	Not Detected	1100	Not Detected
Propylbenzene	160	Not Detected	800	Not Detected
4-Ethyltoluene	160	Not Detected	800	Not Detected
1,3,5-Trimethylbenzene	160	Not Detected	800	Not Detected
1,2,4-Trimethylbenzene	160	Not Detected	800	Not Detected
1,3-Dichlorobenzene	160	Not Detected	980	Not Detected
1,4-Dichlorobenzene	160	Not Detected	980	Not Detected
alpha-Chlorotoluene	160	Not Detected	850	Not Detected
1,2-Dichlorobenzene	160	Not Detected	980	Not Detected
1,2,4-Trichlorobenzene	650	Not Detected	4800	Not Detected
Hexachlorobutadiene	650	Not Detected	7000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130



Client Sample ID: VMP-1-23.5

Lab ID#: 0911102A-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112013	Date of Collection: 11/2/09 12:17:00 PM
Dil. Factor:	79.3	Date of Analysis: 11/21/09 10:20 AM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	400	Not Detected	2000	Not Detected
Freon 114	400	Not Detected	2800	Not Detected
Chloromethane	1600	Not Detected	3300	Not Detected
Vinyl Chloride	400	Not Detected	1000	Not Detected
1,3-Butadiene	400	Not Detected	880	Not Detected
Bromomethane	400	Not Detected	1500	Not Detected
Chloroethane	400	Not Detected	1000	Not Detected
Freon 11	400	Not Detected	2200	Not Detected
Ethanol	1600	Not Detected	3000	Not Detected
Freon 113	400	Not Detected	3000	Not Detected
1,1-Dichloroethene	400	Not Detected	1600	Not Detected
Acetone	1600	Not Detected	3800	Not Detected
2-Propanol	1600	Not Detected	3900	Not Detected
Carbon Disulfide	400	Not Detected	1200	Not Detected
3-Chloropropene	1600	Not Detected	5000	Not Detected
Methylene Chloride	400	Not Detected	1400	Not Detected
Methyl tert-butyl ether	400	Not Detected	1400	Not Detected
trans-1,2-Dichloroethene	400	Not Detected	1600	Not Detected
Hexane	400	39000	1400	140000
1,1-Dichloroethane	400	Not Detected	1600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	400	Not Detected	1200	Not Detected
cis-1,2-Dichloroethene	400	Not Detected	1600	Not Detected
Tetrahydrofuran	400	Not Detected	1200	Not Detected
Chloroform	400	Not Detected	1900	Not Detected
1,1,1-Trichloroethane	400	Not Detected	2200	Not Detected
Cyclohexane	400	19000	1400	66000
Carbon Tetrachloride	400	Not Detected	2500	Not Detected
2,2,4-Trimethylpentane	400	200000	1800	920000
Benzene	400	Not Detected	1300	Not Detected
1,2-Dichloroethane	400	Not Detected	1600	Not Detected
Heptane	400	5800	1600	24000
Trichloroethene	400	Not Detected	2100	Not Detected
1,2-Dichloropropane	400	Not Detected	1800	Not Detected
1,4-Dioxane	1600	Not Detected	5700	Not Detected
Bromodichloromethane	400	Not Detected	2600	Not Detected
cis-1,3-Dichloropropene	400	Not Detected	1800	Not Detected
4-Methyl-2-pentanone	400	Not Detected	1600	Not Detected
Toluene	400	Not Detected	1500	Not Detected
trans-1,3-Dichloropropene	400	Not Detected	1800	Not Detected



Client Sample ID: VMP-1-23.5

Lab ID#: 0911102A-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112013	Date of Collection: 11/2/09 12:17:00 PM
Dil. Factor:	79.3	Date of Analysis: 11/21/09 10:20 AM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	400	Not Detected	2200	Not Detected
Tetrachloroethene	400	Not Detected	2700	Not Detected
2-Hexanone	1600	Not Detected	6500	Not Detected
Dibromochloromethane	400	Not Detected	3400	Not Detected
1,2-Dibromoethane (EDB)	400	Not Detected	3000	Not Detected
Chlorobenzene	400	Not Detected	1800	Not Detected
Ethyl Benzene	400	Not Detected	1700	Not Detected
m,p-Xylene	400	Not Detected	1700	Not Detected
o-Xylene	400	Not Detected	1700	Not Detected
Styrene	400	Not Detected	1700	Not Detected
Bromoform	400	Not Detected	4100	Not Detected
Cumene	400	Not Detected	1900	Not Detected
1,1,2,2-Tetrachloroethane	400	Not Detected	2700	Not Detected
Propylbenzene	400	Not Detected	1900	Not Detected
4-Ethyltoluene	400	Not Detected	1900	Not Detected
1,3,5-Trimethylbenzene	400	Not Detected	1900	Not Detected
1,2,4-Trimethylbenzene	400	Not Detected	1900	Not Detected
1,3-Dichlorobenzene	400	Not Detected	2400	Not Detected
1,4-Dichlorobenzene	400	Not Detected	2400	Not Detected
alpha-Chlorotoluene	400	Not Detected	2000	Not Detected
1,2-Dichlorobenzene	400	Not Detected	2400	Not Detected
1,2,4-Trichlorobenzene	1600	Not Detected	12000	Not Detected
Hexachlorobutadiene	1600	Not Detected	17000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: VMP-1-38.5
 Lab ID#: 0911102A-04A
 MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112014	Date of Collection: 11/2/09 1:30:00 PM
Dil. Factor:	224	Date of Analysis: 11/21/09 10:46 AM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1100	Not Detected	5500	Not Detected
Freon 114	1100	Not Detected	7800	Not Detected
Chloromethane	4500	Not Detected	9200	Not Detected
Vinyl Chloride	1100	Not Detected	2900	Not Detected
1,3-Butadiene	1100	190000	2500	420000
Bromomethane	1100	Not Detected	4300	Not Detected
Chloroethane	1100	Not Detected	3000	Not Detected
Freon 11	1100	Not Detected	6300	Not Detected
Ethanol	4500	Not Detected	8400	Not Detected
Freon 113	1100	Not Detected	8600	Not Detected
1,1-Dichloroethene	1100	Not Detected	4400	Not Detected
Acetone	4500	Not Detected	11000	Not Detected
2-Propanol	4500	Not Detected	11000	Not Detected
Carbon Disulfide	1100	Not Detected	3500	Not Detected
3-Chloropropene	4500	Not Detected	14000	Not Detected
Methylene Chloride	1100	Not Detected	3900	Not Detected
Methyl tert-butyl ether	1100	Not Detected	4000	Not Detected
trans-1,2-Dichloroethene	1100	Not Detected	4400	Not Detected
Hexane	1100	290000	3900	1000000
1,1-Dichloroethane	1100	Not Detected	4500	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1100	Not Detected	3300	Not Detected
cis-1,2-Dichloroethene	1100	Not Detected	4400	Not Detected
Tetrahydrofuran	1100	Not Detected	3300	Not Detected
Chloroform	1100	Not Detected	5500	Not Detected
1,1,1-Trichloroethane	1100	Not Detected	6100	Not Detected
Cyclohexane	1100	110000	3800	380000
Carbon Tetrachloride	1100	Not Detected	7000	Not Detected
2,2,4-Trimethylpentane	1100	520000	5200	2400000
Benzene	1100	1200	3600	3800
1,2-Dichloroethane	1100	Not Detected	4500	Not Detected
Heptane	1100	32000	4600	130000
Trichloroethene	1100	Not Detected	6000	Not Detected
1,2-Dichloropropane	1100	Not Detected	5200	Not Detected
1,4-Dioxane	4500	Not Detected	16000	Not Detected
Bromodichloromethane	1100	Not Detected	7500	Not Detected
cis-1,3-Dichloropropene	1100	Not Detected	5100	Not Detected
4-Methyl-2-pentanone	1100	Not Detected	4600	Not Detected
Toluene	1100	Not Detected	4200	Not Detected
trans-1,3-Dichloropropene	1100	Not Detected	5100	Not Detected



Client Sample ID: VMP-1-38.5

Lab ID#: 0911102A-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112014	Date of Collection: 11/2/09 1:30:00 PM
Dil. Factor:	224	Date of Analysis: 11/21/09 10:46 AM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1100	Not Detected	6100	Not Detected
Tetrachloroethene	1100	Not Detected	7600	Not Detected
2-Hexanone	4500	Not Detected	18000	Not Detected
Dibromochloromethane	1100	Not Detected	9500	Not Detected
1,2-Dibromoethane (EDB)	1100	Not Detected	8600	Not Detected
Chlorobenzene	1100	Not Detected	5200	Not Detected
Ethyl Benzene	1100	Not Detected	4900	Not Detected
m,p-Xylene	1100	Not Detected	4900	Not Detected
o-Xylene	1100	Not Detected	4900	Not Detected
Styrene	1100	Not Detected	4800	Not Detected
Bromoform	1100	Not Detected	12000	Not Detected
Cumene	1100	Not Detected	5500	Not Detected
1,1,2,2-Tetrachloroethane	1100	Not Detected	7700	Not Detected
Propylbenzene	1100	Not Detected	5500	Not Detected
4-Ethyltoluene	1100	Not Detected	5500	Not Detected
1,3,5-Trimethylbenzene	1100	Not Detected	5500	Not Detected
1,2,4-Trimethylbenzene	1100	Not Detected	5500	Not Detected
1,3-Dichlorobenzene	1100	Not Detected	6700	Not Detected
1,4-Dichlorobenzene	1100	Not Detected	6700	Not Detected
alpha-Chlorotoluene	1100	Not Detected	5800	Not Detected
1,2-Dichlorobenzene	1100	Not Detected	6700	Not Detected
1,2,4-Trichlorobenzene	4500	Not Detected	33000	Not Detected
Hexachlorobutadiene	4500	Not Detected	48000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130



Client Sample ID: VMP-2-5

Lab ID#: 0911102A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112023	Date of Collection: 11/2/09 3:21:00 PM
Dil. Factor:	29.1	Date of Analysis: 11/21/09 04:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	140	Not Detected	720	Not Detected
Freon 114	140	Not Detected	1000	Not Detected
Chloromethane	580	Not Detected	1200	Not Detected
Vinyl Chloride	140	Not Detected	370	Not Detected
1,3-Butadiene	140	Not Detected	320	Not Detected
Bromomethane	140	Not Detected	560	Not Detected
Chloroethane	140	Not Detected	380	Not Detected
Freon 11	140	Not Detected	820	Not Detected
Ethanol	580	Not Detected	1100	Not Detected
Freon 113	140	Not Detected	1100	Not Detected
1,1-Dichloroethene	140	Not Detected	580	Not Detected
Acetone	580	Not Detected	1400	Not Detected
2-Propanol	580	Not Detected	1400	Not Detected
Carbon Disulfide	140	Not Detected	450	Not Detected
3-Chloropropene	580	Not Detected	1800	Not Detected
Methylene Chloride	140	Not Detected	500	Not Detected
Methyl tert-butyl ether	140	Not Detected	520	Not Detected
trans-1,2-Dichloroethene	140	Not Detected	580	Not Detected
Hexane	140	3600	510	13000
1,1-Dichloroethane	140	Not Detected	590	Not Detected
2-Butanone (Methyl Ethyl Ketone)	140	Not Detected	430	Not Detected
cis-1,2-Dichloroethene	140	Not Detected	580	Not Detected
Tetrahydrofuran	140	Not Detected	430	Not Detected
Chloroform	140	Not Detected	710	Not Detected
1,1,1-Trichloroethane	140	Not Detected	790	Not Detected
Cyclohexane	140	2300	500	8000
Carbon Tetrachloride	140	Not Detected	920	Not Detected
2,2,4-Trimethylpentane	140	59000	680	270000
Benzene	140	Not Detected	460	Not Detected
1,2-Dichloroethane	140	Not Detected	590	Not Detected
Heptane	140	310	600	1300
Trichloroethene	140	Not Detected	780	Not Detected
1,2-Dichloropropane	140	Not Detected	670	Not Detected
1,4-Dioxane	580	Not Detected	2100	Not Detected
Bromodichloromethane	140	Not Detected	970	Not Detected
cis-1,3-Dichloropropene	140	Not Detected	660	Not Detected
4-Methyl-2-pentanone	140	Not Detected	600	Not Detected
Toluene	140	Not Detected	550	Not Detected
trans-1,3-Dichloropropene	140	Not Detected	660	Not Detected



Client Sample ID: VMP-2-5

Lab ID#: 0911102A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112023	Date of Collection: 11/2/09 3:21:00 PM
Dil. Factor:	29.1	Date of Analysis: 11/21/09 04:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	140	Not Detected	790	Not Detected
Tetrachloroethene	140	Not Detected	990	Not Detected
2-Hexanone	580	Not Detected	2400	Not Detected
Dibromochloromethane	140	Not Detected	1200	Not Detected
1,2-Dibromoethane (EDB)	140	Not Detected	1100	Not Detected
Chlorobenzene	140	Not Detected	670	Not Detected
Ethyl Benzene	140	Not Detected	630	Not Detected
m,p-Xylene	140	Not Detected	630	Not Detected
o-Xylene	140	Not Detected	630	Not Detected
Styrene	140	Not Detected	620	Not Detected
Bromoform	140	Not Detected	1500	Not Detected
Cumene	140	Not Detected	720	Not Detected
1,1,2,2-Tetrachloroethane	140	Not Detected	1000	Not Detected
Propylbenzene	140	Not Detected	720	Not Detected
4-Ethyltoluene	140	Not Detected	720	Not Detected
1,3,5-Trimethylbenzene	140	Not Detected	720	Not Detected
1,2,4-Trimethylbenzene	140	Not Detected	720	Not Detected
1,3-Dichlorobenzene	140	Not Detected	870	Not Detected
1,4-Dichlorobenzene	140	Not Detected	870	Not Detected
alpha-Chlorotoluene	140	Not Detected	750	Not Detected
1,2-Dichlorobenzene	140	Not Detected	870	Not Detected
1,2,4-Trichlorobenzene	580	Not Detected	4300	Not Detected
Hexachlorobutadiene	580	Not Detected	6200	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	105	70-130



Client Sample ID: VMP-2-8.5

Lab ID#: 0911102A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111922	Date of Collection:	11/3/09 9:10:00 AM	
Dil. Factor:	102	Date of Analysis:	11/19/09 10:33 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	51	Not Detected	250	Not Detected
Freon 114	51	Not Detected	360	Not Detected
Chloromethane	200	Not Detected	420	Not Detected
Vinyl Chloride	51	Not Detected	130	Not Detected
1,3-Butadiene	51	Not Detected	110	Not Detected
Bromomethane	51	Not Detected	200	Not Detected
Chloroethane	51	Not Detected	130	Not Detected
Freon 11	51	Not Detected	290	Not Detected
Ethanol	200	Not Detected	380	Not Detected
Freon 113	51	Not Detected	390	Not Detected
1,1-Dichloroethene	51	Not Detected	200	Not Detected
Acetone	200	Not Detected	480	Not Detected
2-Propanol	200	Not Detected	500	Not Detected
Carbon Disulfide	51	Not Detected	160	Not Detected
3-Chloropropene	200	Not Detected	640	Not Detected
Methylene Chloride	51	Not Detected	180	Not Detected
Methyl tert-butyl ether	51	Not Detected	180	Not Detected
trans-1,2-Dichloroethene	51	Not Detected	200	Not Detected
Hexane	51	Not Detected	180	Not Detected
1,1-Dichloroethane	51	Not Detected	210	Not Detected
2-Butanone (Methyl Ethyl Ketone)	51	Not Detected	150	Not Detected
cis-1,2-Dichloroethene	51	Not Detected	200	Not Detected
Tetrahydrofuran	51	Not Detected	150	Not Detected
Chloroform	51	Not Detected	250	Not Detected
1,1,1-Trichloroethane	51	Not Detected	280	Not Detected
Cyclohexane	51	71	180	240
Carbon Tetrachloride	51	Not Detected	320	Not Detected
2,2,4-Trimethylpentane	51	16000	240	74000
Benzene	51	Not Detected	160	Not Detected
1,2-Dichloroethane	51	Not Detected	210	Not Detected
Heptane	51	Not Detected	210	Not Detected
Trichloroethene	51	Not Detected	270	Not Detected
1,2-Dichloropropane	51	Not Detected	240	Not Detected
1,4-Dioxane	200	Not Detected	740	Not Detected
Bromodichloromethane	51	Not Detected	340	Not Detected
cis-1,3-Dichloropropene	51	Not Detected	230	Not Detected
4-Methyl-2-pentanone	51	Not Detected	210	Not Detected
Toluene	51	Not Detected	190	Not Detected
trans-1,3-Dichloropropene	51	Not Detected	230	Not Detected

— "UT"



Client Sample ID: VMP-2-8.5

Lab ID#: 0911102A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111922	Date of Collection:	11/3/09 9:10:00 AM
Dil. Factor:	102	Date of Analysis:	11/19/09 10:33 PM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	51	Not Detected	280	Not Detected
Tetrachloroethene	51	Not Detected	340	Not Detected
2-Hexanone	200	Not Detected	840	Not Detected
Dibromochloromethane	51	Not Detected	430	Not Detected
1,2-Dibromoethane (EDB)	51	Not Detected	390	Not Detected
Chlorobenzene	51	Not Detected	230	Not Detected
Ethyl Benzene	51	Not Detected	220	Not Detected
m,p-Xylene	51	Not Detected	220	Not Detected
o-Xylene	51	Not Detected	220	Not Detected
Styrene	51	Not Detected	220	Not Detected
Bromoform	51	Not Detected	530	Not Detected
Cumene	51	Not Detected	250	Not Detected
1,1,2,2-Tetrachloroethane	51	Not Detected	350	Not Detected
Propylbenzene	51	Not Detected	250	Not Detected
4-Ethyltoluene	51	Not Detected	250	Not Detected
1,3,5-Trimethylbenzene	51	Not Detected	250	Not Detected
1,2,4-Trimethylbenzene	51	Not Detected	250	Not Detected
1,3-Dichlorobenzene	51	Not Detected	310	Not Detected
1,4-Dichlorobenzene	51	Not Detected	310	Not Detected
alpha-Chlorotoluene	51	Not Detected	260	Not Detected
1,2-Dichlorobenzene	51	Not Detected	310	Not Detected
1,2,4-Trichlorobenzene	200	Not Detected	1500	Not Detected
Hexachlorobutadiene	200	Not Detected	2200	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: VMP-2-8.5 Lab Duplicate

Lab ID#: 0911102A-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111921	Date of Collection:	11/3/09 9:10:00 AM
Dil. Factor:	205	Date of Analysis:	11/19/09 10:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	100	Not Detected	510	Not Detected
Freon 114	100	Not Detected	720	Not Detected
Chloromethane	410	Not Detected	850	Not Detected
Vinyl Chloride	100	Not Detected	260	Not Detected
1,3-Butadiene	100	Not Detected	230	Not Detected
Bromomethane	100	Not Detected	400	Not Detected
Chloroethane	100	Not Detected	270	Not Detected
Freon 11	100	Not Detected	580	Not Detected
Ethanol	410	Not Detected	770	Not Detected
Freon 113	100	Not Detected	780	Not Detected
1,1-Dichloroethene	100	Not Detected	410	Not Detected
Acetone	410	Not Detected	970	Not Detected
2-Propanol	410	Not Detected	1000	Not Detected
Carbon Disulfide	100	Not Detected	320	Not Detected
3-Chloropropene	410	Not Detected	1300	Not Detected
Methylene Chloride	100	Not Detected	360	Not Detected
Methyl tert-butyl ether	100	Not Detected	370	Not Detected
trans-1,2-Dichloroethene	100	Not Detected	410	Not Detected
Hexane	100	Not Detected	360	Not Detected
1,1-Dichloroethane	100	Not Detected	410	Not Detected
2-Butanone (Methyl Ethyl Ketone)	100	Not Detected	300	Not Detected
cis-1,2-Dichloroethene	100	Not Detected	410	Not Detected
Tetrahydrofuran	100	Not Detected	300	Not Detected
Chloroform	100	Not Detected	500	Not Detected
1,1,1-Trichloroethane	100	Not Detected	560	Not Detected
Cyclohexane	100	Not Detected	350	Not Detected
Carbon Tetrachloride	100	Not Detected	640	Not Detected
2,2,4-Trimethylpentane	100	16000	480	74000
Benzene	100	Not Detected	330	Not Detected
1,2-Dichloroethane	100	Not Detected	410	Not Detected
Heptane	100	Not Detected	420	Not Detected
Trichloroethene	100	Not Detected	550	Not Detected
1,2-Dichloropropane	100	Not Detected	470	Not Detected
1,4-Dioxane	410	Not Detected	1500	Not Detected
Bromodichloromethane	100	Not Detected	690	Not Detected
cis-1,3-Dichloropropene	100	Not Detected	460	Not Detected
4-Methyl-2-pentanone	100	Not Detected	420	Not Detected
Toluene	100	Not Detected	390	Not Detected
trans-1,3-Dichloropropene	100	Not Detected	460	Not Detected



Client Sample ID: VMP-2-8.5 Lab Duplicate

Lab ID#: 0911102A-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111921	Date of Collection:	11/3/09 9:10:00 AM
Dil. Factor:	205	Date of Analysis:	11/19/09 10:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	100	Not Detected	560	Not Detected
Tetrachloroethene	100	Not Detected	700	Not Detected
2-Hexanone	410	Not Detected	1700	Not Detected
Dibromochloromethane	100	Not Detected	870	Not Detected
1,2-Dibromoethane (EDB)	100	Not Detected	790	Not Detected
Chlorobenzene	100	Not Detected	470	Not Detected
Ethyl Benzene	100	Not Detected	440	Not Detected
m,p-Xylene	100	Not Detected	440	Not Detected
o-Xylene	100	Not Detected	440	Not Detected
Styrene	100	Not Detected	440	Not Detected
Bromoform	100	Not Detected	1000	Not Detected
Cumene	100	Not Detected	500	Not Detected
1,1,2,2-Tetrachloroethane	100	Not Detected	700	Not Detected
Propylbenzene	100	Not Detected	500	Not Detected
4-Ethyltoluene	100	Not Detected	500	Not Detected
1,3,5-Trimethylbenzene	100	Not Detected	500	Not Detected
1,2,4-Trimethylbenzene	100	Not Detected	500	Not Detected
1,3-Dichlorobenzene	100	Not Detected	620	Not Detected
1,4-Dichlorobenzene	100	Not Detected	620	Not Detected
alpha-Chlorotoluene	100	Not Detected	530	Not Detected
1,2-Dichlorobenzene	100	Not Detected	620	Not Detected
1,2,4-Trichlorobenzene	410	Not Detected	3000	Not Detected
Hexachlorobutadiene	410	Not Detected	4400	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: VMP-2-8.5-D

Lab ID#: 0911102A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111923	Date of Collection:	11/3/09 9:10:00 AM
Dil. Factor:	108	Date of Analysis:	11/19/09 11:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	54	Not Detected	270	Not Detected
Freon 114	54	Not Detected	380	Not Detected
Chloromethane	220	Not Detected	450	Not Detected
Vinyl Chloride	54	Not Detected	140	Not Detected
1,3-Butadiene	54	Not Detected	120	Not Detected
Bromomethane	54	Not Detected	210	Not Detected
Chloroethane	54	Not Detected	140	Not Detected
Freon 11	54	Not Detected	300	Not Detected
Ethanol	220	Not Detected	410	Not Detected
Freon 113	54	Not Detected	410	Not Detected
1,1-Dichloroethene	54	Not Detected	210	Not Detected
Acetone	220	Not Detected	510	Not Detected
2-Propanol	220	Not Detected	530	Not Detected
Carbon Disulfide	54	Not Detected	170	Not Detected
3-Chloropropene	220	Not Detected	680	Not Detected
Methylene Chloride	54	Not Detected	190	Not Detected
Methyl tert-butyl ether	54	Not Detected	190	Not Detected
trans-1,2-Dichloroethene	54	Not Detected	210	Not Detected
Hexane	54	Not Detected	190	Not Detected
1,1-Dichloroethane	54	Not Detected	220	Not Detected
2-Butanone (Methyl Ethyl Ketone)	54	Not Detected	160	Not Detected
cis-1,2-Dichloroethene	54	Not Detected	210	Not Detected
Tetrahydrofuran	54	Not Detected	160	Not Detected
Chloroform	54	Not Detected	260	Not Detected
1,1,1-Trichloroethane	54	Not Detected	290	Not Detected
Cyclohexane	54	84	180	290
Carbon Tetrachloride	54	Not Detected	340	Not Detected
2,2,4-Trimethylpentane	54	18000	250	82000
Benzene	54	Not Detected	170	Not Detected
1,2-Dichloroethane	54	Not Detected	220	Not Detected
Heptane	54	Not Detected	220	Not Detected
Trichloroethene	54	Not Detected	290	Not Detected
1,2-Dichloropropane	54	Not Detected	250	Not Detected
1,4-Dioxane	220	Not Detected	780	Not Detected
Bromodichloromethane	54	Not Detected	360	Not Detected
cis-1,3-Dichloropropene	54	Not Detected	240	Not Detected
4-Methyl-2-pentanone	54	Not Detected	220	Not Detected
Toluene	54	Not Detected	200	Not Detected
trans-1,3-Dichloropropene	54	Not Detected	240	Not Detected

- "uJ"



Client Sample ID: VMP-2-8.5-D

Lab ID#: 0911102A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111923	Date of Collection:	11/3/09 9:10:00 AM
Dil. Factor:	108	Date of Analysis:	11/19/09 11:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	54	Not Detected	290	Not Detected
Tetrachloroethene	54	Not Detected	370	Not Detected
2-Hexanone	220	Not Detected	880	Not Detected
Dibromochloromethane	54	Not Detected	460	Not Detected
1,2-Dibromoethane (EDB)	54	Not Detected	410	Not Detected
Chlorobenzene	54	Not Detected	250	Not Detected
Ethyl Benzene	54	Not Detected	230	Not Detected
m,p-Xylene	54	Not Detected	230	Not Detected
o-Xylene	54	Not Detected	230	Not Detected
Styrene	54	Not Detected	230	Not Detected
Bromoform	54	Not Detected	560	Not Detected
Cumene	54	Not Detected	260	Not Detected
1,1,2,2-Tetrachloroethane	54	Not Detected	370	Not Detected
Propylbenzene	54	Not Detected	260	Not Detected
4-Ethyltoluene	54	Not Detected	260	Not Detected
1,3,5-Trimethylbenzene	54	Not Detected	260	Not Detected
1,2,4-Trimethylbenzene	54	Not Detected	260	Not Detected
1,3-Dichlorobenzene	54	Not Detected	320	Not Detected
1,4-Dichlorobenzene	54	Not Detected	320	Not Detected
alpha-Chlorotoluene	54	Not Detected	280	Not Detected
1,2-Dichlorobenzene	54	Not Detected	320	Not Detected
1,2,4-Trichlorobenzene	220	Not Detected	1600	Not Detected
Hexachlorobutadiene	220	Not Detected	2300	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: VMP-2-22

Lab ID#: 0911102A-08A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112024	Date of Collection: 11/3/09 10:21:00 AM
Dil. Factor:	56.0	Date of Analysis: 11/21/09 05:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	280	Not Detected	1400	Not Detected
Freon 114	280	Not Detected	2000	Not Detected
Chloromethane	1100	Not Detected	2300	Not Detected
Vinyl Chloride	280	Not Detected	720	Not Detected
1,3-Butadiene	280	Not Detected	620	Not Detected
Bromomethane	280	Not Detected	1100	Not Detected
Chloroethane	280	Not Detected	740	Not Detected
Freon 11	280	Not Detected	1600	Not Detected
Ethanol	1100	Not Detected	2100	Not Detected
Freon 113	280	Not Detected	2100	Not Detected
1,1-Dichloroethene	280	Not Detected	1100	Not Detected
Acetone	1100	Not Detected	2700	Not Detected
2-Propanol	1100	Not Detected	2800	Not Detected
Carbon Disulfide	280	Not Detected	870	Not Detected
3-Chloropropene	1100	Not Detected	3500	Not Detected
Methylene Chloride	280	Not Detected	970	Not Detected
Methyl tert-butyl ether	280	Not Detected	1000	Not Detected
trans-1,2-Dichloroethene	280	Not Detected	1100	Not Detected
Hexane	280	3800	990	13000
1,1-Dichloroethane	280	Not Detected	1100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	280	Not Detected	820	Not Detected
cis-1,2-Dichloroethene	280	Not Detected	1100	Not Detected
Tetrahydrofuran	280	Not Detected	820	Not Detected
Chloroform	280	Not Detected	1400	Not Detected
1,1,1-Trichloroethane	280	Not Detected	1500	Not Detected
Cyclohexane	280	3300	960	11000
Carbon Tetrachloride	280	Not Detected	1800	Not Detected
2,2,4-Trimethylpentane	280	130000	1300	600000
Benzene	280	Not Detected	890	Not Detected
1,2-Dichloroethane	280	Not Detected	1100	Not Detected
Heptane	280	400	1100	1600
Trichloroethene	280	Not Detected	1500	Not Detected
1,2-Dichloropropane	280	Not Detected	1300	Not Detected
1,4-Dioxane	1100	Not Detected	4000	Not Detected
Bromodichloromethane	280	Not Detected	1900	Not Detected
cis-1,3-Dichloropropene	280	Not Detected	1300	Not Detected
4-Methyl-2-pentanone	280	Not Detected	1100	Not Detected
Toluene	280	Not Detected	1000	Not Detected
trans-1,3-Dichloropropene	280	Not Detected	1300	Not Detected



Client Sample ID: VMP-2-22

Lab ID#: 0911102A-08A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112024	Date of Collection: 11/3/09 10:21:00 AM
Dil. Factor:	56.0	Date of Analysis: 11/21/09 05:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	280	Not Detected	1500	Not Detected
Tetrachloroethene	280	Not Detected	1900	Not Detected
2-Hexanone	1100	Not Detected	4600	Not Detected
Dibromochloromethane	280	Not Detected	2400	Not Detected
1,2-Dibromoethane (EDB)	280	Not Detected	2200	Not Detected
Chlorobenzene	280	Not Detected	1300	Not Detected
Ethyl Benzene	280	Not Detected	1200	Not Detected
m,p-Xylene	280	Not Detected	1200	Not Detected
o-Xylene	280	Not Detected	1200	Not Detected
Styrene	280	Not Detected	1200	Not Detected
Bromoform	280	Not Detected	2900	Not Detected
Cumene	280	Not Detected	1400	Not Detected
1,1,2,2-Tetrachloroethane	280	Not Detected	1900	Not Detected
Propylbenzene	280	Not Detected	1400	Not Detected
4-Ethyltoluene	280	Not Detected	1400	Not Detected
1,3,5-Trimethylbenzene	280	Not Detected	1400	Not Detected
1,2,4-Trimethylbenzene	280	Not Detected	1400	Not Detected
1,3-Dichlorobenzene	280	Not Detected	1700	Not Detected
1,4-Dichlorobenzene	280	Not Detected	1700	Not Detected
alpha-Chlorotoluene	280	Not Detected	1400	Not Detected
1,2-Dichlorobenzene	280	Not Detected	1700	Not Detected
1,2,4-Trichlorobenzene	1100	Not Detected	8300	Not Detected
Hexachlorobutadiene	1100	Not Detected	12000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: VMP-2-42

Lab ID#: 0911102A-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112209	Date of Collection:	11/3/09 11:23:00 AM
Dil. Factor:	1100	Date of Analysis:	11/22/09 11:20 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5500	Not Detected	27000	Not Detected
Freon 114	5500	Not Detected	38000	Not Detected
Chloromethane	22000	Not Detected	45000	Not Detected
Vinyl Chloride	5500	Not Detected	14000	Not Detected
1,3-Butadiene	5500	Not Detected	12000	Not Detected
Bromomethane	5500	Not Detected	21000	Not Detected
Chloroethane	5500	Not Detected	14000	Not Detected
Freon 11	5500	Not Detected	31000	Not Detected
Ethanol	22000	Not Detected	41000	Not Detected
Freon 113	5500	Not Detected	42000	Not Detected
1,1-Dichloroethene	5500	Not Detected	22000	Not Detected
Acetone	22000	Not Detected	52000	Not Detected
2-Propanol	22000	Not Detected	54000	Not Detected
Carbon Disulfide	5500	Not Detected	17000	Not Detected
3-Chloropropene	22000	Not Detected	69000	Not Detected
Methylene Chloride	5500	Not Detected	19000	Not Detected
Methyl tert-butyl ether	5500	Not Detected	20000	Not Detected
trans-1,2-Dichloroethene	5500	Not Detected	22000	Not Detected
Hexane	5500	2000000	19000	7000000
1,1-Dichloroethane	5500	Not Detected	22000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5500	Not Detected	16000	Not Detected
cis-1,2-Dichloroethene	5500	Not Detected	22000	Not Detected
Tetrahydrofuran	5500	Not Detected	16000	Not Detected
Chloroform	5500	Not Detected	27000	Not Detected
1,1,1-Trichloroethane	5500	Not Detected	30000	Not Detected
Cyclohexane	5500	270000	19000	920000
Carbon Tetrachloride	5500	Not Detected	35000	Not Detected
2,2,4-Trimethylpentane	5500	370000	26000	1700000
Benzene	5500	26000	18000	84000
1,2-Dichloroethane	5500	Not Detected	22000	Not Detected
Heptane	5500	440000	22000	1800000
Trichloroethene	5500	Not Detected	30000	Not Detected
1,2-Dichloropropane	5500	Not Detected	25000	Not Detected
1,4-Dioxane	22000	Not Detected	79000	Not Detected
Bromodichloromethane	5500	Not Detected	37000	Not Detected
cis-1,3-Dichloropropene	5500	Not Detected	25000	Not Detected
4-Methyl-2-pentanone	5500	Not Detected	22000	Not Detected
Toluene	5500	16000	21000	59000
trans-1,3-Dichloropropene	5500	Not Detected	25000	Not Detected

- "uJ"



Client Sample ID: VMP-2-42

Lab ID#: 0911102A-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112209	Date of Collection: 11/3/09 11:23:00 AM
Dil. Factor:	1100	Date of Analysis: 11/22/09 11:20 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5500	Not Detected	30000	Not Detected
Tetrachloroethene	5500	Not Detected	37000	Not Detected
2-Hexanone	22000	Not Detected	90000	Not Detected
Dibromochloromethane	5500	Not Detected	47000	Not Detected
1,2-Dibromoethane (EDB)	5500	Not Detected	42000	Not Detected
Chlorobenzene	5500	Not Detected	25000	Not Detected
Ethyl Benzene	5500	30000	24000	130000
m,p-Xylene	5500	36000	24000	160000
o-Xylene	5500	13000	24000	58000
Styrene	5500	Not Detected	23000	Not Detected
Bromoform	5500	Not Detected	57000	Not Detected
Cumene	5500	Not Detected	27000	Not Detected
1,1,2,2-Tetrachloroethane	5500	Not Detected	38000	Not Detected
Propylbenzene	5500	Not Detected	27000	Not Detected
4-Ethyltoluene	5500	Not Detected	27000	Not Detected
1,3,5-Trimethylbenzene	5500	Not Detected	27000	Not Detected
1,2,4-Trimethylbenzene	5500	Not Detected	27000	Not Detected
1,3-Dichlorobenzene	5500	Not Detected	33000	Not Detected
1,4-Dichlorobenzene	5500	Not Detected	33000	Not Detected
alpha-Chlorotoluene	5500	Not Detected	28000	Not Detected
1,2-Dichlorobenzene	5500	Not Detected	33000	Not Detected
1,2,4-Trichlorobenzene	22000	Not Detected	160000	Not Detected
Hexachlorobutadiene	22000	Not Detected	230000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	107	70-130



Client Sample ID: VMP-3-5

Lab ID#: 0911102A-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111920	Date of Collection:	11/3/09 1:38:00 PM
Dil. Factor:	10.8	Date of Analysis:	11/19/09 09:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.4	Not Detected	27	Not Detected
Freon 114	5.4	Not Detected	38	Not Detected
Chloromethane	22	Not Detected	45	Not Detected
Vinyl Chloride	5.4	Not Detected	14	Not Detected
1,3-Butadiene	5.4	Not Detected	12	Not Detected
Bromomethane	5.4	Not Detected	21	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	5.4	Not Detected	30	Not Detected
Ethanol	22	Not Detected	41	Not Detected
Freon 113	5.4	Not Detected	41	Not Detected
1,1-Dichloroethene	5.4	Not Detected	21	Not Detected
Acetone	22	Not Detected	51	Not Detected
2-Propanol	22	Not Detected	53	Not Detected
Carbon Disulfide	5.4	Not Detected	17	Not Detected
3-Chloropropene	22	Not Detected	68	Not Detected
Methylene Chloride	5.4	Not Detected	19	Not Detected
Methyl tert-butyl ether	5.4	Not Detected	19	Not Detected
trans-1,2-Dichloroethene	5.4	Not Detected	21	Not Detected
Hexane	5.4	160	19	580
1,1-Dichloroethane	5.4	Not Detected	22	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	5.4	Not Detected	21	Not Detected
Tetrahydrofuran	5.4	Not Detected	16	Not Detected
Chloroform	5.4	Not Detected	26	Not Detected
1,1,1-Trichloroethane	5.4	Not Detected	29	Not Detected
Cyclohexane	5.4	66	18	230
Carbon Tetrachloride	5.4	Not Detected	34	Not Detected
2,2,4-Trimethylpentane	5.4	1400	25	6400
Benzene	5.4	Not Detected	17	Not Detected
1,2-Dichloroethane	5.4	Not Detected	22	Not Detected
Heptane	5.4	39	22	160
Trichloroethene	5.4	Not Detected	29	Not Detected
1,2-Dichloropropane	5.4	Not Detected	25	Not Detected
1,4-Dioxane	22	Not Detected	78	Not Detected
Bromodichloromethane	5.4	Not Detected	36	Not Detected
cis-1,3-Dichloropropene	5.4	Not Detected	24	Not Detected
4-Methyl-2-pentanone	5.4	Not Detected	22	Not Detected
Toluene	5.4	Not Detected	20	Not Detected
trans-1,3-Dichloropropene	5.4	Not Detected	24	Not Detected

- "uJ"

Client Sample ID: VMP-3-5

Lab ID#: 0911102A-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111920	Date of Collection: 11/3/09 1:38:00 PM
Dil. Factor:	10.8	Date of Analysis: 11/19/09 09:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.4	Not Detected	29	Not Detected
Tetrachloroethene	5.4	Not Detected	37	Not Detected
2-Hexanone	22	Not Detected	88	Not Detected
Dibromochloromethane	5.4	Not Detected	46	Not Detected
1,2-Dibromoethane (EDB)	5.4	Not Detected	41	Not Detected
Chlorobenzene	5.4	Not Detected	25	Not Detected
Ethyl Benzene	5.4	15	23	65
m,p-Xylene	5.4	24	23	100
o-Xylene	5.4	10	23	45
Styrene	5.4	Not Detected	23	Not Detected
Bromoform	5.4	Not Detected	56	Not Detected
Cumene	5.4	Not Detected	26	Not Detected
1,1,2,2-Tetrachloroethane	5.4	Not Detected	37	Not Detected
Propylbenzene	5.4	Not Detected	26	Not Detected
4-Ethyltoluene	5.4	7.2	26	35
1,3,5-Trimethylbenzene	5.4	Not Detected	26	Not Detected
1,2,4-Trimethylbenzene	5.4	Not Detected	26	Not Detected
1,3-Dichlorobenzene	5.4	Not Detected	32	Not Detected
1,4-Dichlorobenzene	5.4	Not Detected	32	Not Detected
alpha-Chlorotoluene	5.4	Not Detected	28	Not Detected
1,2-Dichlorobenzene	5.4	Not Detected	32	Not Detected
1,2,4-Trichlorobenzene	22	Not Detected	160	Not Detected
Hexachlorobutadiene	22	Not Detected	230	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: VMP-3-22

Lab ID#: 0911102A-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112210	Date of Collection: 11/4/09 10:24:00 AM
Dil. Factor:	777	Date of Analysis: 11/22/09 11:45 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3900	Not Detected	19000	Not Detected
Freon 114	3900	Not Detected	27000	Not Detected
Chloromethane	16000	Not Detected	32000	Not Detected
Vinyl Chloride	3900	Not Detected	9900	Not Detected
1,3-Butadiene	3900	Not Detected	8600	Not Detected
Bromomethane	3900	Not Detected	15000	Not Detected
Chloroethane	3900	Not Detected	10000	Not Detected
Freon 11	3900	Not Detected	22000	Not Detected
Ethanol	16000	Not Detected	29000	Not Detected
Freon 113	3900	Not Detected	30000	Not Detected
1,1-Dichloroethene	3900	Not Detected	15000	Not Detected
Acetone	16000	Not Detected	37000	Not Detected
2-Propanol	16000	Not Detected	38000	Not Detected
Carbon Disulfide	3900	Not Detected	12000	Not Detected
3-Chloropropene	16000	Not Detected	49000	Not Detected
Methylene Chloride	3900	Not Detected	13000	Not Detected
Methyl tert-butyl ether	3900	Not Detected	14000	Not Detected
trans-1,2-Dichloroethene	3900	Not Detected	15000	Not Detected
Hexane	3900	1400000	14000	4900000
1,1-Dichloroethane	3900	Not Detected	16000	Not Detected
2-Butanonè (Methyl Ethyl Ketone)	3900	Not Detected	11000	Not Detected
cis-1,2-Dichloroethene	3900	Not Detected	15000	Not Detected
Tetrahydrofuran	3900	Not Detected	11000	Not Detected
Chloroform	3900	Not Detected	19000	Not Detected
1,1,1-Trichloroethane	3900	Not Detected	21000	Not Detected
Cyclohexane	3900	290000	13000	980000
Carbon Tetrachloride	3900	Not Detected	24000	Not Detected
2,2,4-Trimethylpentane	3900	810000	18000	3800000
Benzene	3900	16000	12000	52000
1,2-Dichloroethane	3900	Not Detected	16000	Not Detected
Heptane	3900	76000	16000	310000
Trichloroethene	3900	Not Detected	21000	Not Detected
1,2-Dichloropropane	3900	Not Detected	18000	Not Detected
1,4-Dioxane	16000	Not Detected	56000	Not Detected
Bromodichloromethane	3900	Not Detected	26000	Not Detected
cis-1,3-Dichloropropene	3900	Not Detected	18000	Not Detected
4-Methyl-2-pentanone	3900	Not Detected	16000	Not Detected
Toluene	3900	Not Detected	15000	Not Detected
trans-1,3-Dichloropropene	3900	Not Detected	18000	Not Detected

"45"

Client Sample ID: VMP-3-22

Lab ID#: 0911102A-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112210	Date of Collection: 11/4/09 10:24:00 AM
Dil. Factor:	777	Date of Analysis: 11/22/09 11:45 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	3900	Not Detected	21000	Not Detected
Tetrachloroethene	3900	Not Detected	26000	Not Detected
2-Hexanone	16000	Not Detected	64000	Not Detected
Dibromochloromethane	3900	Not Detected	33000	Not Detected
1,2-Dibromoethane (EDB)	3900	Not Detected	30000	Not Detected
Chlorobenzene	3900	Not Detected	18000	Not Detected
Ethyl Benzene	3900	Not Detected	17000	Not Detected
m,p-Xylene	3900	5100	17000	22000
o-Xylene	3900	Not Detected	17000	Not Detected
Styrene	3900	Not Detected	16000	Not Detected
Bromoform	3900	Not Detected	40000	Not Detected
Cumene	3900	Not Detected	19000	Not Detected
1,1,2,2-Tetrachloroethane	3900	Not Detected	27000	Not Detected
Propylbenzene	3900	4800	19000	24000
4-Ethyltoluene	3900	Not Detected	19000	Not Detected
1,3,5-Trimethylbenzene	3900	Not Detected	19000	Not Detected
1,2,4-Trimethylbenzene	3900	Not Detected	19000	Not Detected
1,3-Dichlorobenzene	3900	Not Detected	23000	Not Detected
1,4-Dichlorobenzene	3900	Not Detected	23000	Not Detected
alpha-Chlorotoluene	3900	Not Detected	20000	Not Detected
1,2-Dichlorobenzene	3900	Not Detected	23000	Not Detected
1,2,4-Trichlorobenzene	16000	Not Detected	120000	Not Detected
Hexachlorobutadiene	16000	Not Detected	160000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: VMP-3-31,5

Lab ID#: 0911102A-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111714	Date of Collection: 11/4/09 11:40:00 AM
Dil. Factor:	1240	Date of Analysis: 11/18/09 12:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	6200	Not Detected	31000	Not Detected
Freon 114	6200	Not Detected	43000	Not Detected
Chloromethane	25000	Not Detected	51000	Not Detected
Vinyl Chloride	6200	Not Detected	16000	Not Detected
1,3-Butadiene	6200	Not Detected	14000	Not Detected
Bromomethane	6200	Not Detected	24000	Not Detected
Chloroethane	6200	Not Detected	16000	Not Detected
Freon 11	6200	Not Detected	35000	Not Detected
Ethanol	25000	Not Detected	47000	Not Detected
Freon 113	6200	Not Detected	48000	Not Detected
1,1-Dichloroethene	6200	Not Detected	24000	Not Detected
Acetone	25000	Not Detected	59000	Not Detected
2-Propanol	25000	Not Detected	61000	Not Detected
Carbon Disulfide	6200	Not Detected	19000	Not Detected
3-Chloropropene	25000	Not Detected	78000	Not Detected
Methylene Chloride	6200	Not Detected	22000	Not Detected
Methyl tert-butyl ether	6200	Not Detected	22000	Not Detected
trans-1,2-Dichloroethene	6200	Not Detected	24000	Not Detected
Hexane	6200	5200000 E	22000	>18000000 E - 5
1,1-Dichloroethane	6200	Not Detected	25000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6200	Not Detected	18000	Not Detected
cis-1,2-Dichloroethene	6200	Not Detected	24000	Not Detected
Tetrahydrofuran	6200	Not Detected	18000	Not Detected
Chloroform	6200	Not Detected	30000	Not Detected
1,1,1-Trichloroethane	6200	Not Detected	34000	Not Detected
Cyclohexane	6200	270000	21000	920000
Carbon Tetrachloride	6200	Not Detected	39000	Not Detected
2,2,4-Trimethylpentane	6200	1400000	29000	6800000
Benzene	6200	74000	20000	240000
1,2-Dichloroethane	6200	Not Detected	25000	Not Detected
Heptane	6200	210000	25000	870000
Trichloroethene	6200	Not Detected	33000	Not Detected
1,2-Dichloropropane	6200	Not Detected	29000	Not Detected
1,4-Dioxane	25000	Not Detected	89000	Not Detected
Bromodichloromethane	6200	Not Detected	42000	Not Detected
cis-1,3-Dichloropropene	6200	Not Detected	28000	Not Detected
4-Methyl-2-pentanone	6200	Not Detected	25000	Not Detected
Toluene	6200	6800	23000	25000
trans-1,3-Dichloropropene	6200	Not Detected	28000	Not Detected



Client Sample ID: VMP-3-31.5

Lab ID#: 0911102A-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111714	Date of Collection: 11/4/09 11:40:00 AM
Dil. Factor:	1240	Date of Analysis: 11/18/09 12:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	6200	Not Detected	34000	Not Detected
Tetrachloroethene	6200	Not Detected	42000	Not Detected
2-Hexanone	25000	Not Detected	100000	Not Detected
Dibromochloromethane	6200	Not Detected	53000	Not Detected
1,2-Dibromoethane (EDB)	6200	Not Detected	48000	Not Detected
Chlorobenzene	6200	Not Detected	28000	Not Detected
Ethyl Benzene	6200	18000	27000	78000
m,p-Xylene	6200	29000	27000	130000
o-Xylene	6200	Not Detected	27000	Not Detected
Styrene	6200	Not Detected	26000	Not Detected
Bromoform	6200	Not Detected	64000	Not Detected
Cumene	6200	Not Detected	30000	Not Detected
1,1,2,2-Tetrachloroethane	6200	Not Detected	42000	Not Detected
Propylbenzene	6200	Not Detected	30000	Not Detected
4-Ethyltoluene	6200	Not Detected	30000	Not Detected
1,3,5-Trimethylbenzene	6200	Not Detected	30000	Not Detected
1,2,4-Trimethylbenzene	6200	Not Detected	30000	Not Detected
1,3-Dichlorobenzene	6200	Not Detected	37000	Not Detected
1,4-Dichlorobenzene	6200	Not Detected	37000	Not Detected
alpha-Chlorotoluene	6200	Not Detected	32000	Not Detected
1,2-Dichlorobenzene	6200	Not Detected	37000	Not Detected
1,2,4-Trichlorobenzene	25000	Not Detected	180000	Not Detected
Hexachlorobutadiene	25000	Not Detected	260000	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: VMP-3-39

Lab ID#: 0911102A-13A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111715	Date of Collection: 11/4/09 12:53:00 PM
Dil. Factor:	2470	Date of Analysis: 11/18/09 12:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	12000	Not Detected	61000	Not Detected
Freon 114	12000	Not Detected	86000	Not Detected
Chloromethane	49000	Not Detected	100000	Not Detected
Vinyl Chloride	12000	Not Detected	32000	Not Detected
1,3-Butadiene	12000	Not Detected	27000	Not Detected
Bromomethane	12000	Not Detected	48000	Not Detected
Chloroethane	12000	Not Detected	32000	Not Detected
Freon 11	12000	Not Detected	69000	Not Detected
Ethanol	49000	Not Detected	93000	Not Detected
Freon 113	12000	Not Detected	95000	Not Detected
1,1-Dichloroethene	12000	Not Detected	49000	Not Detected
Acetone	49000	Not Detected	120000	Not Detected
2-Propanol	49000	Not Detected	120000	Not Detected
Carbon Disulfide	12000	Not Detected	38000	Not Detected
3-Chloropropene	49000	Not Detected	150000	Not Detected
Methylene Chloride	12000	Not Detected	43000	Not Detected
Methyl tert-butyl ether	12000	Not Detected	44000	Not Detected
trans-1,2-Dichloroethene	12000	Not Detected	49000	Not Detected
Hexane	12000	5000000	44000	18000000
1,1-Dichloroethane	12000	Not Detected	50000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12000	Not Detected	36000	Not Detected
cis-1,2-Dichloroethene	12000	Not Detected	49000	Not Detected
Tetrahydrofuran	12000	Not Detected	36000	Not Detected
Chloroform	12000	Not Detected	60000	Not Detected
1,1,1-Trichloroethane	12000	Not Detected	67000	Not Detected
Cyclohexane	12000	230000	42000	790000
Carbon Tetrachloride	12000	Not Detected	78000	Not Detected
2,2,4-Trimethylpentane	12000	1500000	58000	7100000
Benzene	12000	74000	39000	240000
1,2-Dichloroethane	12000	Not Detected	50000	Not Detected
Heptane	12000	190000	51000	780000
Trichloroethene	12000	Not Detected	66000	Not Detected
1,2-Dichloropropane	12000	Not Detected	57000	Not Detected
1,4-Dioxane	49000	Not Detected	180000	Not Detected
Bromodichloromethane	12000	Not Detected	83000	Not Detected
cis-1,3-Dichloropropene	12000	Not Detected	56000	Not Detected
4-Methyl-2-pentanone	12000	Not Detected	50000	Not Detected
Toluene	12000	Not Detected	46000	Not Detected
trans-1,3-Dichloropropene	12000	Not Detected	56000	Not Detected

Client Sample ID: VMP-3-39

Lab ID#: 0911102A-13A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111715	Date of Collection:	11/4/09 12:53:00 PM
Dil. Factor:	2470	Date of Analysis:	11/18/09 12:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	12000	Not Detected	67000	Not Detected
Tetrachloroethene	12000	Not Detected	84000	Not Detected
2-Hexanone	49000	Not Detected	200000	Not Detected
Dibromochloromethane	12000	Not Detected	100000	Not Detected
1,2-Dibromoethane (EDB)	12000	Not Detected	95000	Not Detected
Chlorobenzene	12000	Not Detected	57000	Not Detected
Ethyl Benzene	12000	16000	54000	70000
m,p-Xylene	12000	26000	54000	110000
o-Xylene	12000	Not Detected	54000	Not Detected
Styrene	12000	Not Detected	53000	Not Detected
Bromoform	12000	Not Detected	130000	Not Detected
Cumene	12000	Not Detected	61000	Not Detected
1,1,2,2-Tetrachloroethane	12000	Not Detected	85000	Not Detected
Propylbenzene	12000	Not Detected	61000	Not Detected
4-Ethyltoluene	12000	Not Detected	61000	Not Detected
1,3,5-Trimethylbenzene	12000	Not Detected	61000	Not Detected
1,2,4-Trimethylbenzene	12000	Not Detected	61000	Not Detected
1,3-Dichlorobenzene	12000	Not Detected	74000	Not Detected
1,4-Dichlorobenzene	12000	Not Detected	74000	Not Detected
alpha-Chlorotoluene	12000	Not Detected	64000	Not Detected
1,2-Dichlorobenzene	12000	Not Detected	74000	Not Detected
1,2,4-Trichlorobenzene	49000	Not Detected	370000	Not Detected
Hexachlorobutadiene	49000	Not Detected	530000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: Lab Blank

Lab ID#: 0911102A-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 0911102A-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111907	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/19/09 10:43 AM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: Lab Blank

Lab ID#: 0911102A-14B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111708	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/18/09 08:01 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 0911102A-14B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111708	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/18/09 08:01 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130



Client Sample ID: Lab Blank

Lab ID#: 0911102A-14C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112009	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 11:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 0911102A-14C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112009	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/20/09 11:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: Lab Blank

Lab ID#: 0911102A-14D

MODIFIED EPA METHOD TO-15 GC/MS

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 0911102A-14D

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112208	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/22/09 10:33 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	109	70-130



Client Sample ID: CCV

Lab ID#: 0911102A-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111902	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/19/09 07:48 AM

Compound	%Recovery
Freon 12	104
Freon 114	103
Chloromethane	98
Vinyl Chloride	102
1,3-Butadiene	98
Bromomethane	98
Chloroethane	91
Freon 11	100
Ethanol	97
Freon 113	106
1,1-Dichloroethene	109
Acetone	96
2-Propanol	96
Carbon Disulfide	103
3-Chloropropene	102
Methylene Chloride	91
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	103
Hexane	98
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	104
Tetrahydrofuran	100
Chloroform	103
1,1,1-Trichloroethane	103
Cyclohexane	102
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	102
Benzene	101
1,2-Dichloroethane	101
Heptane	104
Trichloroethene	103
1,2-Dichloropropane	98
1,4-Dioxane	100
Bromodichloromethane	103
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	104
Toluene	103
trans-1,3-Dichloropropene	110

Client Sample ID: CCV

Lab ID#: 0911102A-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111902	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/19/09 07:48 AM

Compound	%Recovery
1,1,2-Trichloroethane	105
Tetrachloroethene	104
2-Hexanone	110
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	108
Chlorobenzene	106
Ethyl Benzene	107
m,p-Xylene	108
o-Xylene	110
Styrene	115
Bromoform	114
Cumene	109
1,1,2,2-Tetrachloroethane	110
Propylbenzene	108
4-Ethyltoluene	111
1,3,5-Trimethylbenzene	115
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	113
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	123
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	108
Hexachlorobutadiene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: CCV

Lab ID#: 0911102A-15B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/17/09 09:37 PM

Compound	%Recovery
Freon 12	104
Freon 114	108
Chloromethane	105
Vinyl Chloride	116
1,3-Butadiene	124
Bromomethane	116
Chloroethane	107
Freon 11	109
Ethanol	112
Freon 113	111
1,1-Dichloroethene	110
Acetone	112
2-Propanol	102
Carbon Disulfide	112
3-Chloropropene	110
Methylene Chloride	108
Methyl tert-butyl ether	130
trans-1,2-Dichloroethene	112
Hexane	116
1,1-Dichloroethane	111
2-Butanone (Methyl Ethyl Ketone)	113
cis-1,2-Dichloroethene	111
Tetrahydrofuran	114
Chloroform	108
1,1,1-Trichloroethane	110
Cyclohexane	115
Carbon Tetrachloride	110
2,2,4-Trimethylpentane	117
Benzene	110
1,2-Dichloroethane	107
Heptane	119
Trichloroethene	110
1,2-Dichloropropane	109
1,4-Dioxane	114
Bromodichloromethane	109
cis-1,3-Dichloropropene	117
4-Methyl-2-pentanone	117
Toluene	109
trans-1,3-Dichloropropene	110

Client Sample ID: CCV

Lab ID#: 0911102A-15B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/17/09 09:37 PM

Compound	%Recovery
1,1,2-Trichloroethane	109
Tetrachloroethene	108
2-Hexanone	113
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	110
Chlorobenzene	107
Ethyl Benzene	112
m,p-Xylene	112
o-Xylene	114
Styrene	119
Bromoform	112
Cumene	121
1,1,2,2-Tetrachloroethane	111
Propylbenzene	117
4-Ethyltoluene	121
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	121
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	121
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	114
Hexachlorobutadiene	111

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: CCV

Lab ID#: 0911102A-15C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112005	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 10:07 PM

Compound	%Recovery
Freon 12	106
Freon 114	107
Chloromethane	109
Vinyl Chloride	118
1,3-Butadiene	127
Bromomethane	111
Chloroethane	111
Freon 11	110
Ethanol	111
Freon 113	109
1,1-Dichloroethene	113
Acetone	109
2-Propanol	104
Carbon Disulfide	113
3-Chloropropene	111
Methylene Chloride	111
Methyl tert-butyl ether	115
trans-1,2-Dichloroethene	113
Hexane	116
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	116
cis-1,2-Dichloroethene	114
Tetrahydrofuran	114
Chloroform	111
1,1,1-Trichloroethane	111
Cyclohexane	119
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	118
Benzene	110
1,2-Dichloroethane	108
Heptane	116
Trichloroethene	108
1,2-Dichloropropane	111
1,4-Dioxane	113
Bromodichloromethane	108
cis-1,3-Dichloropropene	115
4-Methyl-2-pentanone	121
Toluene	108
trans-1,3-Dichloropropene	111

Client Sample ID: CCV

Lab ID#: 0911102A-15C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112005	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 10:07 PM

Compound	%Recovery
1,1,2-Trichloroethane	109
Tetrachloroethene	106
2-Hexanone	115
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	110
Chlorobenzene	107
Ethyl Benzene	111
m,p-Xylene	112
o-Xylene	114
Styrene	118
Bromoform	112
Cumene	122
1,1,2,2-Tetrachloroethane	111
Propylbenzene	115
4-Ethyltoluene	121
1,3,5-Trimethylbenzene	111
1,2,4-Trimethylbenzene	121
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	114
Hexachlorobutadiene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: CCV

Lab ID#: 0911102A-15D

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/22/09 08:43 AM

Compound	%Recovery
Freon 12	98
Freon 114	104
Chloromethane	98
Vinyl Chloride	99
1,3-Butadiene	107
Bromomethane	107
Chloroethane	108
Freon 11	104
Ethanol	124
Freon 113	112
1,1-Dichloroethene	110
Acetone	108
2-Propanol	110
Carbon Disulfide	107
3-Chloropropene	113
Methylene Chloride	102
Methyl tert-butyl ether	124
trans-1,2-Dichloroethene	111
Hexane	114
1,1-Dichloroethane	107
2-Butanone (Methyl Ethyl Ketone)	117
cis-1,2-Dichloroethene	111
Tetrahydrofuran	111
Chloroform	104
1,1,1-Trichloroethane	106
Cyclohexane	114
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	116
Benzene	106
1,2-Dichloroethane	104
Heptane	113
Trichloroethene	106
1,2-Dichloropropane	108
1,4-Dioxane	112
Bromodichloromethane	103
cis-1,3-Dichloropropene	118
4-Methyl-2-pentanone	120
Toluene	103
trans-1,3-Dichloropropene	110



Client Sample ID: CCV

Lab ID#: 0911102A-15D

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/22/09 08:43 AM

Compound	%Recovery
1,1,2-Trichloroethane	103
Tetrachloroethene	108
2-Hexanone	114
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	106
Chlorobenzene	101
Ethyl Benzene	105
m,p-Xylene	107
o-Xylene	110
Styrene	113
Bromoform	112
Cumene	117
1,1,2,2-Tetrachloroethane	104
Propylbenzene	111
4-Ethyltoluene	113
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	116
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	122
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	126
Hexachlorobutadiene	123

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: LCS

Lab ID#: 0911102A-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111903	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/19/09 08:48 AM

Compound	%Recovery
Freon 12	80
Freon 114	80
Chloromethane	76
Vinyl Chloride	78
1,3-Butadiene	79
Bromomethane	80
Chloroethane	74
Freon 11	78
Ethanol	128
Freon 113	75
1,1-Dichloroethene	77
Acetone	74
2-Propanol	72
Carbon Disulfide	78
3-Chloropropene	80
Methylene Chloride	67 Q
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	81
Hexane	76
1,1-Dichloroethane	75
2-Butanone (Methyl Ethyl Ketone)	80
cis-1,2-Dichloroethene	79
Tetrahydrofuran	78
Chloroform	78
1,1,1-Trichloroethane	79
Cyclohexane	80
Carbon Tetrachloride	79
2,2,4-Trimethylpentane	80
Benzene	79
1,2-Dichloroethane	77
Heptane	81
Trichloroethene	81
1,2-Dichloropropane	78
1,4-Dioxane	81
Bromodichloromethane	80
cis-1,3-Dichloropropene	83
4-Methyl-2-pentanone	82
Toluene	77
trans-1,3-Dichloropropene	92



Client Sample ID: LCS

Lab ID#: 0911102A-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6111903	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/19/09 08:48 AM

Compound	%Recovery
1,1,2-Trichloroethane	90
Tetrachloroethene	88
2-Hexanone	94
Dibromochloromethane	92
1,2-Dibromoethane (EDB)	96
Chlorobenzene	91
Ethyl Benzene	92
m,p-Xylene	93
o-Xylene	94
Styrene	98
Bromoform	98
Cumene	91
1,1,2,2-Tetrachloroethane	97
Propylbenzene	91
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	95
Hexachlorobutadiene	96

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: LCS

Lab ID#: 0911102A-16B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/17/09 09:59 PM

Compound	%Recovery
Freon 12	79
Freon 114	83
Chloromethane	81
Vinyl Chloride	88
1,3-Butadiene	97
Bromomethane	80
Chloroethane	82
Freon 11	81
Ethanol	144 Q
Freon 113	74
1,1-Dichloroethene	74
Acetone	79
2-Propanol	75
Carbon Disulfide	82
3-Chloropropene	80
Methylene Chloride	73
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	83
Hexane	83
1,1-Dichloroethane	78
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	86
Tetrahydrofuran	84
Chloroform	79
1,1,1-Trichloroethane	80
Cyclohexane	84
Carbon Tetrachloride	82
2,2,4-Trimethylpentane	85
Benzene	80
1,2-Dichloroethane	78
Heptane	84
Trichloroethene	80
1,2-Dichloropropane	80
1,4-Dioxane	91
Bromodichloromethane	79
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	87
Toluene	77
trans-1,3-Dichloropropene	83



Client Sample ID: LCS

Lab ID#: 0911102A-16B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/17/09 09:59 PM

Compound	%Recovery
1,1,2-Trichloroethane	82
Tetrachloroethene	79
2-Hexanone	92
Dibromochloromethane	80
1,2-Dibromoethane (EDB)	85
Chlorobenzene	81
Ethyl Benzene	85
m,p-Xylene	84
o-Xylene	84
Styrene	88
Bromoform	84
Cumene	88
1,1,2,2-Tetrachloroethane	84
Propylbenzene	86
4-Ethyltoluene	90
1,3,5-Trimethylbenzene	84
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	83
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	94
1,2-Dichlorobenzene	87
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	88

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: LCS

Lab ID#: 0911102A-16C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112006	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 10:26 PM

Compound	%Recovery
Freon 12	76
Freon 114	79
Chloromethane	78
Vinyl Chloride	83
1,3-Butadiene	93
Bromomethane	78
Chloroethane	78
Freon 11	78
Ethanol	140
Freon 113	70
1,1-Dichloroethene	69 Q
Acetone	77
2-Propanol	71
Carbon Disulfide	78
3-Chloropropene	76
Methylene Chloride	70
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	78
Hexane	79
1,1-Dichloroethane	75
2-Butanone (Methyl Ethyl Ketone)	82
cis-1,2-Dichloroethene	82
Tetrahydrofuran	80
Chloroform	76
1,1,1-Trichloroethane	76
Cyclohexane	80
Carbon Tetrachloride	78
2,2,4-Trimethylpentane	80
Benzene	78
1,2-Dichloroethane	74
Heptane	81
Trichloroethene	78
1,2-Dichloropropane	80
1,4-Dioxane	87
Bromodichloromethane	77
cis-1,3-Dichloropropene	82
4-Methyl-2-pentanone	88
Toluene	74
trans-1,3-Dichloropropene	81



Client Sample ID: LCS

Lab ID#: 0911102A-16C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112006	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 10:26 PM

Compound	%Recovery
1,1,2-Trichloroethane	81
Tetrachloroethene	77
2-Hexanone	91
Dibromochloromethane	79
1,2-Dibromoethane (EDB)	83
Chlorobenzene	79
Ethyl Benzene	79
m,p-Xylene	82
o-Xylene	82
Styrene	85
Bromoform	82
Cumene	86
1,1,2,2-Tetrachloroethane	83
Propylbenzene	83
4-Ethyltoluene	89
1,3,5-Trimethylbenzene	80
1,2,4-Trimethylbenzene	89
1,3-Dichlorobenzene	82
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	88
1,2-Dichlorobenzene	83
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	85

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130



Client Sample ID: LCS

Lab ID#: 0911102A-16D

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/22/09 09:06 AM

Compound	%Recovery
Freon 12	73
Freon 114	76
Chloromethane	73
Vinyl Chloride	75
1,3-Butadiene	80
Bromomethane	78
Chloroethane	77
Freon 11	78
Ethanol	144 Q
Freon 113	75
1,1-Dichloroethene	73
Acetone	80
2-Propanol	77
Carbon Disulfide	78
3-Chloropropene	80
Methylene Chloride	71
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	80
Hexane	82
1,1-Dichloroethane	75
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	85
Tetrahydrofuran	83
Chloroform	75
1,1,1-Trichloroethane	77
Cyclohexane	82
Carbon Tetrachloride	77
2,2,4-Trimethylpentane	84
Benzene	75
1,2-Dichloroethane	73
Heptane	81
Trichloroethene	76
1,2-Dichloropropane	77
1,4-Dioxane	85
Bromodichloromethane	71
cis-1,3-Dichloropropene	85
4-Methyl-2-pentanone	88
Toluene	71
trans-1,3-Dichloropropene	83



Client Sample ID: LCS

Lab ID#: 0911102A-16D

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/22/09 09:06 AM

Compound	%Recovery
1,1,2-Trichloroethane	77
Tetrachloroethene	80
2-Hexanone	93
Dibromochloromethane	76
1,2-Dibromoethane (EDB)	81
Chlorobenzene	76
Ethyl Benzene	79
m,p-Xylene	81
o-Xylene	82
Styrene	85
Bromoform	82
Cumene	84
1,1,2,2-Tetrachloroethane	79
Propylbenzene	82
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	78
1,2,4-Trimethylbenzene	87
1,3-Dichlorobenzene	80
1,4-Dichlorobenzene	85
alpha-Chlorotoluene	93
1,2-Dichlorobenzene	85
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	96

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	111	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Ltd assumes no liability with respect to the collector, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Austin Scott (Air Toxics) / Scott Adams (UES)
 Collected by: (Print and Sign) M. L. ...
 Company V.P.S. Corporation Email ...@vps.com
 Address 1001 Highway 138, P.O. Box 138, ... State MD Zip 21110
 Phone (314) 429-8100 Fax (314) 429-8462

Project Info:
 P.O. # VPS
 Project # 21562175-0005
 Project Name Refinery 21 / Distribution
 Turn Around Time: Normal Rush
 Pressurized by: _____ Date: _____
 Pressurization Gas: _____ N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
01A	VMP-1-5	666602389	11/02/09	10:12 / 11:04	NOV 15 10-15, ASTM-D-21916 plus the	-30	-5
02A	VMP-1-8.5	666602394	11/02/09	10:40 / 11:10		-30	-3
03A	VMP-1-23.5	666602396	11/02/09	11:49 / 12:17		-30	-5
04A	VMP-1-38.5	666602398	11/02/09	1:30 / 1:55		-30	-3
05A	VMP-2-5	666602394	11/02/09	1:57 / 1:21		-30	-4
06A	VMP-2-8.5	666602392	11/03/09	08:41 / 09:10		-30	-3
07A	VMP-2-8.5-D	666602391	11/03/09	08:41 / 09:10		-30	-4
08A	VMP-2-22	666602388	11/03/09	09:57 / 10:21		-30	-4
09A	VMP-2-47	666602418	11/03/09	11:01 / 11:23		-30	-5
10A	VMP-3-5	666602397	11/03/09	1:30 / 1:58		-30	-8

Notes: ... Air Toxics Ltd. gas used as their compound
 Received by: (signature) Monica Blegen Date/Time 11/04/09 1700
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____

Lab Use Only
 Shipper Name Fed Ex Air Bill # 864750771310000 NA Temp (C) NA Condition Good Custody Seals Intact? Yes No None
 Work Order # 0911102



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4822

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

CHAIN-OF-CUSTODY RECORD

Project Manager Auska Scott (Air Toxics) / Self-Ins (VPS)
 Collected by: (Print and Sign) Mitchell Miller
 Company VPS Corporation Email hennings@vps.com
 Address (see if applicable) Placerwood City State MO Zip 63110
 Phone (314) 429-0100 Fax (314) 429-0162

Project Info:
 P.O. # VPS
 Project # 21502125, 20005
 Project Name Raymond, Jr. Dissolved Phase
 Turn Around Time: Normal Rush
 Date: _____
 Pressurization Gas: _____
 Pressurized by: _____
 Lab Use Only
 Final Receipt: _____
 Final Date: _____

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
11A	VMP-3-2A	000002485	11/04/09	1004/1024	methanol, toluene, ASD-1946 plus He	-30	-5
12A	VMP-3-31.5	000002216	11/04/09	1110/1140		-29	-6
13A	VMP-3-39	000005834	11/04/09	1230/1253		-30	-6

Relinquished by: (signature) _____ Date/Time 11/01/09 1700
 Received by: (signature) Monica Grogan Date/Time _____
 Notes: all 11/01/09 gas used as tracer
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Lab Shipper Name: FedEx Air Bill # 880509130200 Temp (C) NA Condition: Good Custody Seals Intact? Yes Work Order # 0911102
 Use Only: None

Roxana Data Review

Laboratory SDG: 0911102B

Reviewer: Tony Sedlacek

Date Reviewed: 1/7/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-1-5	VMP-1-8.5
VMP-1-23.5	VMP-1-38.5
VMP-2-5	VMP-2-8.5
VMP-2-8.5-D	VMP-2-22
VMP-2-42	VMP-3-5
VMP-3-22	VMP-3-31.5
VMP-3-39	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative and cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Not applicable; samples were analyzed for Methane and fixed gases in air and surrogates are not required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No, MS/MSD samples are not collected for Method ASTM D-1946 since spiking material is unable to be added to the summa canister.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

Yes, sample VMP-2-42 was duplicated and analyzed for methane and fixed gases in air.

Were laboratory duplicate sample RPDs within criteria?

Yes

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-2-8.5	VMP-2-8.5-D

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

11/18/2009

Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana, IL/ Dissolved Phase
Project #: URS 21562175.00005
Workorder #: 0911102B

Dear Mr. Mike Miller

The following report includes the data for the above referenced project for sample(s) received on 11/5/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 0911102B

Work Order Summary

CLIENT:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110
PHONE:	314-566-3073	P.O. #	
FAX:		PROJECT #	URS 21562175.00005 Roxana, IL/
DATE RECEIVED:	11/05/2009	CONTACT:	Dissolved Phase Ausha Scott
DATE COMPLETED:	11/18/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-1-5	Modified ASTM D-1946	4.5 "Hg	15 psi
02A	VMP-1-8.5	Modified ASTM D-1946	3.5 "Hg	15 psi
03A	VMP-1-23.5	Modified ASTM D-1946	4.5 "Hg	15 psi
04A	VMP-1-38.5	Modified ASTM D-1946	3.0 "Hg	15 psi
05A	VMP-2-5	Modified ASTM D-1946	4.0 "Hg	15 psi
06A	VMP-2-8.5	Modified ASTM D-1946	0.5 "Hg	15 psi
07A	VMP-2-8.5-D	Modified ASTM D-1946	2.0 "Hg	15 psi
08A	VMP-2-22	Modified ASTM D-1946	3.0 "Hg	15 psi
09A	VMP-2-42	Modified ASTM D-1946	2.5 "Hg	15 psi
09AA	VMP-2-42 Lab Duplicate	Modified ASTM D-1946	2.5 "Hg	15 psi
10A	VMP-3-5	Modified ASTM D-1946	7.5 "Hg	15 psi
11A	VMP-3-22	Modified ASTM D-1946	4.0 "Hg	15 psi
12A	VMP-3-31.5	Modified ASTM D-1946	5.5 "Hg	15 psi
13A	VMP-3-39	Modified ASTM D-1946	5.5 "Hg	15 psi
14A	Lab Blank	Modified ASTM D-1946	NA	NA
14B	Lab Blank	Modified ASTM D-1946	NA	NA
15A	LCS	Modified ASTM D-1946	NA	NA

CERTIFIED BY:

Sandra A. Freeman

Laboratory Director

DATE: 11/18/09

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 0911102B**

Thirteen 1 Liter Summa Canister samples were received on November 05, 2009. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 X$'s the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-1-5

Lab ID#: 0911102B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	11
Nitrogen	0.24	81
Methane	0.00024	1.4
Carbon Dioxide	0.024	4.5
Helium	0.12	1.6

Client Sample ID: VMP-1-8.5

Lab ID#: 0911102B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.5
Nitrogen	0.23	85
Methane	0.00023	1.5
Carbon Dioxide	0.023	12

Client Sample ID: VMP-1-23.5

Lab ID#: 0911102B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.3
Nitrogen	0.24	80
Methane	0.00024	7.4
Carbon Dioxide	0.024	9.8
Ethane	0.0024	0.0038

Client Sample ID: VMP-1-38.5

Lab ID#: 0911102B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.4
Nitrogen	0.22	54
Methane	0.00022	33
Carbon Dioxide	0.022	5.6
Ethane	0.0022	0.017
Helium	0.11	0.23

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-2-5

Lab ID#: 0911102B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	11
Nitrogen	0.23	79
Methane	0.00023	0.0078
Carbon Dioxide	0.023	7.8
Helium	0.12	2.4

Client Sample ID: VMP-2-8.5

Lab ID#: 0911102B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	18
Nitrogen	0.20	78
Carbon Dioxide	0.020	2.5
Helium	0.10	1.2

Client Sample ID: VMP-2-8.5-D

Lab ID#: 0911102B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	18
Nitrogen	0.22	78
Carbon Dioxide	0.022	2.7
Helium	0.11	1.3

Client Sample ID: VMP-2-22

Lab ID#: 0911102B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	4.0
Nitrogen	0.22	85
Methane	0.00022	0.54
Carbon Dioxide	0.022	10

**Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

Client Sample ID: VMP-2-42

Lab ID#: 0911102B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	0.92
Nitrogen	0.22	16
Methane	0.00022	64
Carbon Dioxide	0.022	5.0
Ethane	0.0022	0.020

Client Sample ID: VMP-2-42 Lab Duplicate

Lab ID#: 0911102B-09AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	0.94
Nitrogen	0.22	15
Methane	0.00022	64
Carbon Dioxide	0.022	5.0
Ethane	0.0022	0.021

Client Sample ID: VMP-3-5

Lab ID#: 0911102B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	5.0
Nitrogen	0.27	86
Methane	0.00027	0.037
Carbon Dioxide	0.027	8.5
Helium	0.13	0.18

Client Sample ID: VMP-3-22

Lab ID#: 0911102B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.1
Nitrogen	0.23	58
Methane	0.00023	25
Carbon Dioxide	0.023	8.7

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-3-22

Lab ID#: 0911102B-11A

Ethane	0.0023	0.012
--------	--------	-------

Client Sample ID: VMP-3-31.5

Lab ID#: 0911102B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	0.77
Nitrogen	0.25	36
Methane	0.00025	43
Carbon Dioxide	0.025	5.6
Ethane	0.0025	0.020

Client Sample ID: VMP-3-39

Lab ID#: 0911102B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	0.79
Nitrogen	0.25	33
Methane	0.00025	45
Carbon Dioxide	0.025	5.6
Ethane	0.0025	0.021

Client Sample ID: VMP-1-5

Lab ID#: 0911102B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110709	Date of Collection: 11/2/09 10:04:00 AM
Dil. Factor:	2.38	Date of Analysis: 11/7/09 11:13 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	11
Nitrogen	0.24	81
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	1.4
Carbon Dioxide	0.024	4.5
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	1.6

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-1-8.5

Lab ID#: 0911102B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110710	Date of Collection: 11/2/09 11:10:00 AM
Dil. Factor:	2.29	Date of Analysis: 11/7/09 11:34 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.5
Nitrogen	0.23	85
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	1.5
Carbon Dioxide	0.023	12
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-1-23.5

Lab ID#: 0911102B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110711	Date of Collection: 11/2/09 12:17:00 PM
Dil. Factor:	2.38	Date of Analysis: 11/7/09 12:01 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.3
Nitrogen	0.24	80
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	7.4
Carbon Dioxide	0.024	9.8
Ethane	0.0024	0.0038
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-1-38.5

Lab ID#: 0911102B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110712	Date of Collection: 11/2/09 1:30:00 PM
Dil. Factor:	2.24	Date of Analysis: 11/7/09 12:23 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.4
Nitrogen	0.22	54
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	33
Carbon Dioxide	0.022	5.6
Ethane	0.0022	0.017
Ethene	0.0022	Not Detected
Helium	0.11	0.23

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-2-5

Lab ID#: 0911102B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110715	Date of Collection: 11/2/09 3:21:00 PM
Dil. Factor:	2.33	Date of Analysis: 11/7/09 01:31 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	11
Nitrogen	0.23	79
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	0.0078
Carbon Dioxide	0.023	7.8
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.12	2.4

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-2-8.5

Lab ID#: 0911102B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110714	Date of Collection:	11/3/09 9:10:00 AM
Dil. Factor:	2.05	Date of Analysis:	11/7/09 01:08 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.20	18
Nitrogen	0.20	78
Carbon Monoxide	0.020	Not Detected
Methane	0.00020	Not Detected
Carbon Dioxide	0.020	2.5
Ethane	0.0020	Not Detected
Ethene	0.0020	Not Detected
Helium	0.10	1.2

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-2-8.5-D

Lab ID#: 0911102B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110716	Date of Collection: 11/3/09 9:10:00 AM
Dil. Factor:	2.16	Date of Analysis: 11/7/09 01:58 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	18
Nitrogen	0.22	78
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	2.7
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	1.3

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-2-22

Lab ID#: 0911102B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110708	Date of Collection: 11/3/09 10:21:00 AM
Dil. Factor:	2.24	Date of Analysis: 11/7/09 10:39 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	4.0
Nitrogen	0.22	85
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	0.54
Carbon Dioxide	0.022	10
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-2-42

Lab ID#: 0911102B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110706	Date of Collection: 11/3/09 11:23:00 AM
Dil. Factor:	2.20	Date of Analysis: 11/7/09 09:43 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	0.92
Nitrogen	0.22	16
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	64
Carbon Dioxide	0.022	5.0
Ethane	0.0022	0.020
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-2-42 Lab Duplicate

Lab ID#: 0911102B-09AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110707	Date of Collection: 11/3/09 11:23:00 AM
Dil. Factor:	2.20	Date of Analysis: 11/7/09 10:04 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	0.94
Nitrogen	0.22	15
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	64
Carbon Dioxide	0.022	5.0
Ethane	0.0022	0.021
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-3-5

Lab ID#: 0911102B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110717	Date of Collection: 11/3/09 1:38:00 PM
Dil. Factor:	2.69	Date of Analysis: 11/7/09 02:19 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	5.0
Nitrogen	0.27	86
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	0.037
Carbon Dioxide	0.027	8.5
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.13	0.18

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-3-22

Lab ID#: 0911102B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110718	Date of Collection: 11/4/09 10:24:00 AM
Dil. Factor:	2.33	Date of Analysis: 11/7/09 02:41 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.1
Nitrogen	0.23	58
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	25
Carbon Dioxide	0.023	8.7
Ethane	0.0023	0.012
Ethene	0.0023	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-3-31.5

Lab ID#: 0911102B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110719	Date of Collection: 11/4/09 11:40:00 AM
Dil. Factor:	2.47	Date of Analysis: 11/7/09 03:03 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	0.77
Nitrogen	0.25	36
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	43
Carbon Dioxide	0.025	5.6
Ethane	0.0025	0.020
Ethene	0.0025	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-3-39

Lab ID#: 0911102B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110721	Date of Collection: 11/4/09 12:53:00 PM
Dil. Factor:	2.47	Date of Analysis: 11/7/09 03:47 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	0.79
Nitrogen	0.25	33
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	45
Carbon Dioxide	0.025	5.6
Ethane	0.0025	0.021
Ethene	0.0025	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 0911102B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/7/09 07:59 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: Lab Blank

Lab ID#: 0911102B-14B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110702b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/7/09 07:33 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 0911102B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110722	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/7/09 04:09 PM

Compound	%Recovery
Oxygen	99
Nitrogen	99
Carbon Monoxide	104
Methane	100
Carbon Dioxide	99
Ethane	98
Ethene	98
Helium	104

Container Type: NA - Not Applicable



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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Page 1 of 2

Project Manager Austin Scott (Ac 75345) / S&B Admin (VPS)
 Collected by: (Print and Sign) M. L. Miller Email mlmiller@airtoxics.com
 Company VPS Corporation State CA Zip 95630
 Address (incl. Highway, Box, P.O.) Highway 205, P.O. Box 63110
 City Stockton State CA Zip 95210
 Phone (314) 429-0100 Fax (314) 429-0462

Project Info:
 P.O. # VPS
 Project # 21562715-0005
 Project Name Retax, 21 / Disposal
 Turn Around Time: Normal Rush
 Pressurized by: _____ Date: _____
 Pressurization Gas: _____ N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Receipt
01A	VMP-1-5	0000020242	11/02/09	10:46/1110	TO-15, Asst-D-1946, ph, he	-30	-5	
02A	VMP-1-8-5	0000020242	11/02/09	10:46/1110		-30	-3	
03A	VMP-1-23-5	0000020242	11/02/09	11:49/1217		-30	-5	
04A	VMP-1-38-5	0000020242	11/02/09	1:30/1330		-30	-3	
05A	VMP-2-5	0000020242	11/02/09	14:57/1521		-30	-4	
06A	VMP-2-8-5	0000020242	11/03/09	08:41/0910		-30	-3	
07A	VMP-2-8-5-D	0000020242	11/03/09	08:41/0910		-30	-4	
08A	VMP-2-2-2	0000020242	11/02/09	09:57/1021		-30	-4	
09A	VMP-2-4-2	0000020242	11/02/09	11:03/1123		-30	-5	
10A	VMP-3-5	0000020242	11/23/09	13:08/1338		-30	-8	

Relinquished by: (signature) [Signature] Date/Time 11/04/09 1700
 Received by: (signature) Monica Blegen Date/Time 11/03/09 1308/1338
 Notes: 11/03/09 - 11/04/09 - 11/05/09 - 11/06/09 - 11/07/09 - 11/08/09 - 11/09/09 - 11/10/09 - 11/11/09 - 11/12/09 - 11/13/09 - 11/14/09 - 11/15/09 - 11/16/09 - 11/17/09 - 11/18/09 - 11/19/09 - 11/20/09 - 11/21/09 - 11/22/09 - 11/23/09 - 11/24/09 - 11/25/09 - 11/26/09 - 11/27/09 - 11/28/09 - 11/29/09 - 11/30/09
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Lab Shipper Name: FEA Ex Air Bill #: 860750271510000 NA Temp (C): NA Condition: Good Custody/Seals Intact? Yes No None
 Work Order #: 0911102



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Page 2 of 2

Project Manager Auska Scott (Air Toxics) / Jeff King (URS)
 Collected by: (Print and Sign) Michael Miller
 Company URS Corporation Email Michael.Miller@URS.com
 Address 1001 Highway Plaza Blvd City San Luis State MO Zip 63116
 Phone (314) 429-6100 Fax (314) 429-0162

Project Info:
 P.O. # URS
 Project # 21562175.0005
 Project Name Ravine 21 / D. sealed Purse

Lab Use Only
 Pressurized by:
 Date:
 Pressurization-Gas: N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Turn Around Time:		Canister Pressure/Vacuum			
						Normal	Rush	Initial	Final	Receipt	Final
11A	VMP-3-22	200201485	11/04/09	1004/1034	Asst. 451 M.D. 1946 g/L He	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-30	-5		
12A	VMP-3-31.5	200202216	11/04/09	1110/1140		<input checked="" type="checkbox"/>	<input type="checkbox"/>	-29	-6		
13A	VMP-3-39	200205834	11/04/09	1230/1253		<input checked="" type="checkbox"/>	<input type="checkbox"/>	-30	-6		
						<input checked="" type="checkbox"/>	<input type="checkbox"/>				
						<input checked="" type="checkbox"/>	<input type="checkbox"/>				
						<input checked="" type="checkbox"/>	<input type="checkbox"/>				
						<input checked="" type="checkbox"/>	<input type="checkbox"/>				
						<input checked="" type="checkbox"/>	<input type="checkbox"/>				
						<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Relinquished by: (signature) [Signature] Date/Time 11/04/09 1700
 Received by: (signature) Monica Green Date/Time 11/04/09 900
 Notes: Helium gas used as tracer

Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____
 Shipper Name: Fed Ex Air Bill # 8505091370000 Temp (°C) NA Condition: Good Custody Seals Intact? (Yes) No None
 Work Order #: 0911102

Roxana Data Review

Laboratory SDG: 0911151A

Reviewer: Tony Sedlacek

Date Reviewed: 1/9/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-301-5	VMP-301-38.5
VMP-401-5	VMP-401-38.5

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that samples were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, LCS recoveries were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

WORK ORDER #: 0911151A

Work Order Summary

CLIENT:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-566-3073	P.O. #	
FAX:		PROJECT #	URS 21562175.99000 Roxana, IL/
DATE RECEIVED:	11/07/2009	CONTACT:	Dissolved Phase Ausha Scott
DATE COMPLETED:	11/24/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-301-5	Modified TO-15	6.5 "Hg	15 psi
02A	VMP-301-38.5	Modified TO-15	5.5 "Hg	15 psi
03A	VMP-401-5	Modified TO-15	6.5 "Hg	15 psi
04A	VMP-401-38.5	Modified TO-15	3.5 "Hg	15 psi
05A	Lab Blank	Modified TO-15	NA	NA
05B	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
06B	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07B	LCS	Modified TO-15	NA	NA

CERTIFIED BY: *Linda D. Furrer*

DATE: 11/24/09

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE
Modified TO-15
URS Corporation
Workorder# 0911151A**

Four 1 Liter Summa Canister samples were received on November 07, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Daily CCV	<= 30% Difference	<= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples VMP-301-38.5 and VMP-401-38.5 due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

Client Sample ID: VMP-301-5

Lab ID#: 0911151A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	5.2	8.1	12	19
2-Butanone (Methyl Ethyl Ketone)	1.3	1.7	3.8	5.1
Chloroform	1.3	9.2	6.3	45

Client Sample ID: VMP-301-38.5

Lab ID#: 0911151A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	3100	220000	11000	770000
Cyclohexane	3100	72000	11000	250000
2,2,4-Trimethylpentane	3100	350000	14000	1600000
Heptane	3100	24000	13000	97000

Client Sample ID: VMP-401-5

Lab ID#: 0911151A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	130	8600	450	30000
Cyclohexane	130	2800	440	9700
2,2,4-Trimethylpentane	130	39000	600	180000
Heptane	130	860	530	3500

Client Sample ID: VMP-401-38.5

Lab ID#: 0911151A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	2900	220000	10000	760000
Cyclohexane	2900	66000	9800	220000
2,2,4-Trimethylpentane	2900	330000	13000	1600000
Heptane	2900	28000	12000	110000



Client Sample ID: VMP-301-5

Lab ID#: 0911151A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d112021	Date of Collection:	10/26/09 10:22:00 AM
Dil. Factor:	2.58	Date of Analysis:	11/20/09 10:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.4	Not Detected
Freon 114	1.3	Not Detected	9.0	Not Detected
Chloromethane	5.2	Not Detected	11	Not Detected
Vinyl Chloride	1.3	Not Detected	3.3	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	1.3	Not Detected	5.0	Not Detected
Chloroethane	1.3	Not Detected	3.4	Not Detected
Freon 11	1.3	Not Detected	7.2	Not Detected
Ethanol	5.2	Not Detected	9.7	Not Detected
Freon 113	1.3	Not Detected	9.9	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Acetone	5.2	8.1	12	19
2-Propanol	5.2	Not Detected	13	Not Detected
Carbon Disulfide	1.3	Not Detected	4.0	Not Detected
3-Chloropropene	5.2	Not Detected	16	Not Detected
Methylene Chloride	1.3	Not Detected	4.5	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Hexane	1.3	Not Detected	4.5	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.3	1.7	3.8	5.1
cis-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.8	Not Detected
Chloroform	1.3	9.2	6.3	45
1,1,1-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Cyclohexane	1.3	Not Detected	4.4	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.1	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	6.0	Not Detected
Benzene	1.3	Not Detected	4.1	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.2	Not Detected
Heptane	1.3	Not Detected	5.3	Not Detected
Trichloroethene	1.3	Not Detected	6.9	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.0	Not Detected
1,4-Dioxane	5.2	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.6	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.3	Not Detected
Toluene	1.3	Not Detected	4.9	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected



Client Sample ID: VMP-301-5

Lab ID#: 0911151A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d112021	Date of Collection:	10/26/09 10:22:00 AM
Dil. Factor:	2.58	Date of Analysis:	11/20/09 10:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Tetrachloroethene	1.3	Not Detected	8.8	Not Detected
2-Hexanone	5.2	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.9	Not Detected
Chlorobenzene	1.3	Not Detected	5.9	Not Detected
Ethyl Benzene	1.3	Not Detected	5.6	Not Detected
m,p-Xylene	1.3	Not Detected	5.6	Not Detected
o-Xylene	1.3	Not Detected	5.6	Not Detected
Styrene	1.3	Not Detected	5.5	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.3	Not Detected
1,1,1,2-Tetrachloroethane	1.3	Not Detected	8.8	Not Detected
Propylbenzene	1.3	Not Detected	6.3	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.3	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.7	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.8	Not Detected
1,2,4-Trichlorobenzene	5.2	Not Detected	38	Not Detected
Hexachlorobutadiene	5.2	Not Detected	55	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	107	70-130



Client Sample ID: VMP-301-38.5

Lab ID#: 0911151A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111817	Date of Collection: 10/26/09 12:40:00 PM
Dil. Factor:	618	Date of Analysis: 11/19/09 02:42 PM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3100	Not Detected	15000	Not Detected
Freon 114	3100	Not Detected	22000	Not Detected
Chloromethane	12000	Not Detected	26000	Not Detected
Vinyl Chloride	3100	Not Detected	7900	Not Detected
1,3-Butadiene	3100	Not Detected	6800	Not Detected
Bromomethane	3100	Not Detected	12000	Not Detected
Chloroethane	3100	Not Detected	8200	Not Detected
Freon 11	3100	Not Detected	17000	Not Detected
Ethanol	12000	Not Detected	23000	Not Detected
Freon 113	3100	Not Detected	24000	Not Detected
1,1-Dichloroethene	3100	Not Detected	12000	Not Detected
Acetone	12000	Not Detected	29000	Not Detected
2-Propanol	12000	Not Detected	30000	Not Detected
Carbon Disulfide	3100	Not Detected	9600	Not Detected
3-Chloropropene	12000	Not Detected	39000	Not Detected
Methylene Chloride	3100	Not Detected	11000	Not Detected
Methyl tert-butyl ether	3100	Not Detected	11000	Not Detected
trans-1,2-Dichloroethene	3100	Not Detected	12000	Not Detected
Hexane	3100	220000	11000	770000
1,1-Dichloroethane	3100	Not Detected	12000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3100	Not Detected	9100	Not Detected
cis-1,2-Dichloroethene	3100	Not Detected	12000	Not Detected
Tetrahydrofuran	3100	Not Detected	9100	Not Detected
Chloroform	3100	Not Detected	15000	Not Detected
1,1,1-Trichloroethane	3100	Not Detected	17000	Not Detected
Cyclohexane	3100	72000	11000	250000
Carbon Tetrachloride	3100	Not Detected	19000	Not Detected
2,2,4-Trimethylpentane	3100	350000	14000	1600000
Benzene	3100	Not Detected	9900	Not Detected
1,2-Dichloroethane	3100	Not Detected	12000	Not Detected
Heptane	3100	24000	13000	97000
Trichloroethene	3100	Not Detected	17000	Not Detected
1,2-Dichloropropane	3100	Not Detected	14000	Not Detected
1,4-Dioxane	12000	Not Detected	44000	Not Detected
Bromodichloromethane	3100	Not Detected	21000	Not Detected
cis-1,3-Dichloropropene	3100	Not Detected	14000	Not Detected
4-Methyl-2-pentanone	3100	Not Detected	13000	Not Detected
Toluene	3100	Not Detected	12000	Not Detected
trans-1,3-Dichloropropene	3100	Not Detected	14000	Not Detected



Client Sample ID: VMP-301-38.5

Lab ID#: 0911151A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111817	Date of Collection: 10/26/09 12:40:00 PM
Dil. Factor:	618	Date of Analysis: 11/19/09 02:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	3100	Not Detected	17000	Not Detected
Tetrachloroethene	3100	Not Detected	21000	Not Detected
2-Hexanone	12000	Not Detected	51000	Not Detected
Dibromochloromethane	3100	Not Detected	26000	Not Detected
1,2-Dibromoethane (EDB)	3100	Not Detected	24000	Not Detected
Chlorobenzene	3100	Not Detected	14000	Not Detected
Ethyl Benzene	3100	Not Detected	13000	Not Detected
m,p-Xylene	3100	Not Detected	13000	Not Detected
o-Xylene	3100	Not Detected	13000	Not Detected
Styrene	3100	Not Detected	13000	Not Detected
Bromoform	3100	Not Detected	32000	Not Detected
Cumene	3100	Not Detected	15000	Not Detected
1,1,2,2-Tetrachloroethane	3100	Not Detected	21000	Not Detected
Propylbenzene	3100	Not Detected	15000	Not Detected
4-Ethyltoluene	3100	Not Detected	15000	Not Detected
1,3,5-Trimethylbenzene	3100	Not Detected	15000	Not Detected
1,2,4-Trimethylbenzene	3100	Not Detected	15000	Not Detected
1,3-Dichlorobenzene	3100	Not Detected	18000	Not Detected
1,4-Dichlorobenzene	3100	Not Detected	18000	Not Detected
alpha-Chlorotoluene	3100	Not Detected	16000	Not Detected
1,2-Dichlorobenzene	3100	Not Detected	18000	Not Detected
1,2,4-Trichlorobenzene	12000	Not Detected	92000	Not Detected
Hexachlorobutadiene	12000	Not Detected	130000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: VMP-401-5

Lab ID#: 0911151A-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111816	Date of Collection: 10/29/09 10:53:00 AM
Dil. Factor:	25.8	Date of Analysis: 11/19/09 02:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	130	Not Detected	640	Not Detected
Freon 114	130	Not Detected	900	Not Detected
Chloromethane	520	Not Detected	1100	Not Detected
Vinyl Chloride	130	Not Detected	330	Not Detected
1,3-Butadiene	130	Not Detected	280	Not Detected
Bromomethane	130	Not Detected	500	Not Detected
Chloroethane	130	Not Detected	340	Not Detected
Freon 11	130	Not Detected	720	Not Detected
Ethanol	520	Not Detected	970	Not Detected
Freon 113	130	Not Detected	990	Not Detected
1,1-Dichloroethene	130	Not Detected	510	Not Detected
Acetone	520	Not Detected	1200	Not Detected
2-Propanol	520	Not Detected	1300	Not Detected
Carbon Disulfide	130	Not Detected	400	Not Detected
3-Chloropropene	520	Not Detected	1600	Not Detected
Methylene Chloride	130	Not Detected	450	Not Detected
Methyl tert-butyl ether	130	Not Detected	460	Not Detected
trans-1,2-Dichloroethene	130	Not Detected	510	Not Detected
Hexane	130	8600	450	30000
1,1-Dichloroethane	130	Not Detected	520	Not Detected
2-Butanone (Methyl Ethyl Ketone)	130	Not Detected	380	Not Detected
cis-1,2-Dichloroethene	130	Not Detected	510	Not Detected
Tetrahydrofuran	130	Not Detected	380	Not Detected
Chloroform	130	Not Detected	630	Not Detected
1,1,1-Trichloroethane	130	Not Detected	700	Not Detected
Cyclohexane	130	2800	440	9700
Carbon Tetrachloride	130	Not Detected	810	Not Detected
2,2,4-Trimethylpentane	130	39000	600	180000
Benzene	130	Not Detected	410	Not Detected
1,2-Dichloroethane	130	Not Detected	520	Not Detected
Heptane	130	860	530	3500
Trichloroethene	130	Not Detected	690	Not Detected
1,2-Dichloropropane	130	Not Detected	600	Not Detected
1,4-Dioxane	520	Not Detected	1800	Not Detected
Bromodichloromethane	130	Not Detected	860	Not Detected
cis-1,3-Dichloropropene	130	Not Detected	580	Not Detected
4-Methyl-2-pentanone	130	Not Detected	530	Not Detected
Toluene	130	Not Detected	490	Not Detected
trans-1,3-Dichloropropene	130	Not Detected	580	Not Detected



Client Sample ID: VMP-401-5

Lab ID#: 0911151A-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111816	Date of Collection: 10/29/09 10:53:00 AM
Dil. Factor:	25.8	Date of Analysis: 11/19/09 02:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	130	Not Detected	700	Not Detected
Tetrachloroethene	130	Not Detected	880	Not Detected
2-Hexanone	520	Not Detected	2100	Not Detected
Dibromochloromethane	130	Not Detected	1100	Not Detected
1,2-Dibromoethane (EDB)	130	Not Detected	990	Not Detected
Chlorobenzene	130	Not Detected	590	Not Detected
Ethyl Benzene	130	Not Detected	560	Not Detected
m,p-Xylene	130	Not Detected	560	Not Detected
o-Xylene	130	Not Detected	560	Not Detected
Styrene	130	Not Detected	550	Not Detected
Bromoform	130	Not Detected	1300	Not Detected
Cumene	130	Not Detected	630	Not Detected
1,1,2,2-Tetrachloroethane	130	Not Detected	880	Not Detected
Propylbenzene	130	Not Detected	630	Not Detected
4-Ethyltoluene	130	Not Detected	630	Not Detected
1,3,5-Trimethylbenzene	130	Not Detected	630	Not Detected
1,2,4-Trimethylbenzene	130	Not Detected	630	Not Detected
1,3-Dichlorobenzene	130	Not Detected	780	Not Detected
1,4-Dichlorobenzene	130	Not Detected	780	Not Detected
alpha-Chlorotoluene	130	Not Detected	670	Not Detected
1,2-Dichlorobenzene	130	Not Detected	780	Not Detected
1,2,4-Trichlorobenzene	520	Not Detected	3800	Not Detected
Hexachlorobutadiene	520	Not Detected	5500	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: VMP-401-38.5

Lab ID#: 0911151A-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111818	Date of Collection: 10/29/09 11:49:00 AM
Dil. Factor:	572	Date of Analysis: 11/19/09 03:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2900	Not Detected	14000	Not Detected
Freon 114	2900	Not Detected	20000	Not Detected
Chloromethane	11000	Not Detected	24000	Not Detected
Vinyl Chloride	2900	Not Detected	7300	Not Detected
1,3-Butadiene	2900	Not Detected	6300	Not Detected
Bromomethane	2900	Not Detected	11000	Not Detected
Chloroethane	2900	Not Detected	7500	Not Detected
Freon 11	2900	Not Detected	16000	Not Detected
Ethanol	11000	Not Detected	22000	Not Detected
Freon 113	2900	Not Detected	22000	Not Detected
1,1-Dichloroethene	2900	Not Detected	11000	Not Detected
Acetone	11000	Not Detected	27000	Not Detected
2-Propanol	11000	Not Detected	28000	Not Detected
Carbon Disulfide	2900	Not Detected	8900	Not Detected
3-Chloropropene	11000	Not Detected	36000	Not Detected
Methylene Chloride	2900	Not Detected	9900	Not Detected
Methyl tert-butyl ether	2900	Not Detected	10000	Not Detected
trans-1,2-Dichloroethene	2900	Not Detected	11000	Not Detected
Hexane	2900	220000	10000	760000
1,1-Dichloroethane	2900	Not Detected	12000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2900	Not Detected	8400	Not Detected
cis-1,2-Dichloroethene	2900	Not Detected	11000	Not Detected
Tetrahydrofuran	2900	Not Detected	8400	Not Detected
Chloroform	2900	Not Detected	14000	Not Detected
1,1,1-Trichloroethane	2900	Not Detected	16000	Not Detected
Cyclohexane	2900	66000	9800	220000
Carbon Tetrachloride	2900	Not Detected	18000	Not Detected
2,2,4-Trimethylpentane	2900	330000	13000	1600000
Benzene	2900	Not Detected	9100	Not Detected
1,2-Dichloroethane	2900	Not Detected	12000	Not Detected
Heptane	2900	28000	12000	110000
Trichloroethene	2900	Not Detected	15000	Not Detected
1,2-Dichloropropane	2900	Not Detected	13000	Not Detected
1,4-Dioxane	11000	Not Detected	41000	Not Detected
Bromodichloromethane	2900	Not Detected	19000	Not Detected
cis-1,3-Dichloropropene	2900	Not Detected	13000	Not Detected
4-Methyl-2-pentanone	2900	Not Detected	12000	Not Detected
Toluene	2900	Not Detected	11000	Not Detected
trans-1,3-Dichloropropene	2900	Not Detected	13000	Not Detected



Client Sample ID: VMP-401-38.5

Lab ID#: 0911151A-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111818	Date of Collection: 10/29/09 11:49:00 AM
Dil. Factor:	572	Date of Analysis: 11/19/09 03:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	2900	Not Detected	16000	Not Detected
Tetrachloroethene	2900	Not Detected	19000	Not Detected
2-Hexanone	11000	Not Detected	47000	Not Detected
Dibromochloromethane	2900	Not Detected	24000	Not Detected
1,2-Dibromoethane (EDB)	2900	Not Detected	22000	Not Detected
Chlorobenzene	2900	Not Detected	13000	Not Detected
Ethyl Benzene	2900	Not Detected	12000	Not Detected
m,p-Xylene	2900	Not Detected	12000	Not Detected
o-Xylene	2900	Not Detected	12000	Not Detected
Styrene	2900	Not Detected	12000	Not Detected
Bromoform	2900	Not Detected	30000	Not Detected
Cumene	2900	Not Detected	14000	Not Detected
1,1,2,2-Tetrachloroethane	2900	Not Detected	20000	Not Detected
Propylbenzene	2900	Not Detected	14000	Not Detected
4-Ethyltoluene	2900	Not Detected	14000	Not Detected
1,3,5-Trimethylbenzene	2900	Not Detected	14000	Not Detected
1,2,4-Trimethylbenzene	2900	Not Detected	14000	Not Detected
1,3-Dichlorobenzene	2900	Not Detected	17000	Not Detected
1,4-Dichlorobenzene	2900	Not Detected	17000	Not Detected
alpha-Chlorotoluene	2900	Not Detected	15000	Not Detected
1,2-Dichlorobenzene	2900	Not Detected	17000	Not Detected
1,2,4-Trichlorobenzene	11000	Not Detected	85000	Not Detected
Hexachlorobutadiene	11000	Not Detected	120000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	103	70-130



Client Sample ID: Lab Blank

Lab ID#: 0911151A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111808	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/19/09 08:13 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 0911151A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111808	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/19/09 08:13 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: Lab Blank

Lab ID#: 0911151A-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d112004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 09:12 AM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 0911151A-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d112004	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/20/09 09:12 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: CCV

Lab ID#: 0911151A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/18/09 09:42 PM

Compound	%Recovery
Freon 12	104
Freon 114	104
Chloromethane	103
Vinyl Chloride	113
1,3-Butadiene	118
Bromomethane	111
Chloroethane	109
Freon 11	107
Ethanol	109
Freon 113	108
1,1-Dichloroethene	109
Acetone	108
2-Propanol	101
Carbon Disulfide	110
3-Chloropropene	109
Methylene Chloride	104
Methyl tert-butyl ether	113
trans-1,2-Dichloroethene	112
Hexane	113
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	114
cis-1,2-Dichloroethene	110
Tetrahydrofuran	111
Chloroform	110
1,1,1-Trichloroethane	108
Cyclohexane	115
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	116
Benzene	110
1,2-Dichloroethane	108
Heptane	115
Trichloroethene	108
1,2-Dichloropropane	110
1,4-Dioxane	111
Bromodichloromethane	108
cis-1,3-Dichloropropene	115
4-Methyl-2-pentanone	119
Toluene	107
trans-1,3-Dichloropropene	111

Client Sample ID: CCV

Lab ID#: 0911151A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/18/09 09:42 PM

Compound	%Recovery
1,1,2-Trichloroethane	109
Tetrachloroethene	107
2-Hexanone	113
Dibromochloromethane	112
1,2-Dibromoethane (EDB)	111
Chlorobenzene	108
Ethyl Benzene	112
m,p-Xylene	114
o-Xylene	114
Styrene	121
Bromoform	114
Cumene	121
1,1,2,2-Tetrachloroethane	110
Propylbenzene	115
4-Ethyltoluene	121
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	119
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: CCV

Lab ID#: 0911151A-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d112002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 07:33 AM

Compound	%Recovery
Freon 12	116
Freon 114	106
Chloromethane	110
Vinyl Chloride	113
1,3-Butadiene	118
Bromomethane	107
Chloroethane	99
Freon 11	112
Ethanol	103
Freon 113	105
1,1-Dichloroethene	107
Acetone	111
2-Propanol	110
Carbon Disulfide	111
3-Chloropropene	108
Methylene Chloride	102
Methyl tert-butyl ether	112
trans-1,2-Dichloroethene	109
Hexane	112
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	121
cis-1,2-Dichloroethene	109
Tetrahydrofuran	110
Chloroform	114
1,1,1-Trichloroethane	115
Cyclohexane	108
Carbon Tetrachloride	114
2,2,4-Trimethylpentane	113
Benzene	112
1,2-Dichloroethane	118
Heptane	116
Trichloroethene	107
1,2-Dichloropropane	111
1,4-Dioxane	103
Bromodichloromethane	119
cis-1,3-Dichloropropene	116
4-Methyl-2-pentanone	126
Toluene	109
trans-1,3-Dichloropropene	122

Client Sample ID: CCV

Lab ID#: 0911151A-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d112002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 07:33 AM

Compound	%Recovery
1,1,2-Trichloroethane	109
Tetrachloroethene	107
2-Hexanone	114
Dibromochloromethane	119
1,2-Dibromoethane (EDB)	116
Chlorobenzene	106
Ethyl Benzene	110
m,p-Xylene	111
o-Xylene	113
Styrene	127
Bromoform	122
Cumene	117
1,1,1,2-Tetrachloroethane	114
Propylbenzene	114
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	112
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	113
alpha-Chlorotoluene	127
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: LCS

Lab ID#: 0911151A-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/18/09 10:02 PM

Compound	%Recovery
Freon 12	77
Freon 114	79
Chloromethane	81
Vinyl Chloride	86
1,3-Butadiene	94
Bromomethane	80
Chloroethane	81
Freon 11	80
Ethanol	141 Q
Freon 113	71
1,1-Dichloroethene	72
Acetone	79
2-Propanol	75
Carbon Disulfide	80
3-Chloropropene	77
Methylene Chloride	72
Methyl tert-butyl ether	79
trans-1,2-Dichloroethene	82
Hexane	81
1,1-Dichloroethane	77
2-Butanone (Methyl Ethyl Ketone)	84
cis-1,2-Dichloroethene	84
Tetrahydrofuran	84
Chloroform	77
1,1,1-Trichloroethane	77
Cyclohexane	82
Carbon Tetrachloride	79
2,2,4-Trimethylpentane	83
Benzene	79
1,2-Dichloroethane	76
Heptane	82
Trichloroethene	77
1,2-Dichloropropane	80
1,4-Dioxane	90
Bromodichloromethane	76
cis-1,3-Dichloropropene	82
4-Methyl-2-pentanone	88
Toluene	75
trans-1,3-Dichloropropene	82

Client Sample ID: LCS

Lab ID#: 0911151A-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w111804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/18/09 10:02 PM

Compound	%Recovery
1,1,2-Trichloroethane	79
Tetrachloroethene	78
2-Hexanone	91
Dibromochloromethane	81
1,2-Dibromoethane (EDB)	84
Chlorobenzene	81
Ethyl Benzene	83
m,p-Xylene	82
o-Xylene	84
Styrene	87
Bromoform	82
Cumene	87
1,1,2,2-Tetrachloroethane	83
Propylbenzene	84
4-Ethyltoluene	88
1,3,5-Trimethylbenzene	83
1,2,4-Trimethylbenzene	89
1,3-Dichlorobenzene	83
1,4-Dichlorobenzene	85
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	86
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	85

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: LCS

Lab ID#: 0911151A-07B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d112003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 08:02 AM

Compound	%Recovery
Freon 12	88
Freon 114	83
Chloromethane	85
Vinyl Chloride	89
1,3-Butadiene	94
Bromomethane	80
Chloroethane	78
Freon 11	88
Ethanol	146 Q
Freon 113	75
1,1-Dichloroethene	76
Acetone	84
2-Propanol	82
Carbon Disulfide	85
3-Chloropropene	82
Methylene Chloride	75
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	86
Hexane	88
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	84
Tetrahydrofuran	87
Chloroform	87
1,1,1-Trichloroethane	88
Cyclohexane	86
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	89
Benzene	86
1,2-Dichloroethane	90
Heptane	90
Trichloroethene	83
1,2-Dichloropropane	88
1,4-Dioxane	84
Bromodichloromethane	91
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	98
Toluene	81
trans-1,3-Dichloropropene	103

Client Sample ID: LCS

Lab ID#: 0911151A-07B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	d112003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 08:02 AM

Compound	%Recovery
1,1,2-Trichloroethane	94
Tetrachloroethene	92
2-Hexanone	99
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	104
Chlorobenzene	92
Ethyl Benzene	97
m,p-Xylene	98
o-Xylene	98
Styrene	111
Bromoform	104
Cumene	100
1,1,1,2-Tetrachloroethane	99
Propylbenzene	98
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	87

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	112	70-130



Sample Transportation Notice

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(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

CHAIN-OF-CUSTODY RECORD

Project Manager Ansh Seth (Air Toxics) / Seth Adhwa (CUPRA)
 Collected by: (Print and Sign) Michael Miller
 Company URS Corporation Email mmiller@urscorp.com
 Address (Loc) 425 Jackson Plaza City San Francisco State CA Zip 94110
 Phone (314) 429-0100 Fax (314) 429-0462

Project Info:
 P.O. # 465
 Project # 21512731-000003 MPM
 Project Name Rebar, 24 / Dissolved Page

Turn Around Time:
 Normal
 Rush
 specify

Lab Use Only
 Pressurized by:
 Date:
 Pressurization Gas: N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final (psi)
01A	VMP-301-5	0000003878	10/26/09	0952/1032	Asst. D. 19.46 ple. 46	-36	-8.0
02A	VMP-301-38.5	0000005593	10/26/09	1110/1246	" "	-30	-7.5
03A	VMP-401-5	0000005872	10/29/09	1023/1053	" "	-30	-7.5
04A	VMP-401-38.5	01014	10/29/09	1132/1149	" "	-30	-4.0

Relinquished by: (signature) [Signature] Date/Time 11/26/09 1700
 Received by: (signature) Felix Date/Time
 Relinquished by: (signature) [Signature] Date/Time 11/19/09 920
 Received by: (signature) [Signature] Date/Time

Notes:
 Place in cup involved separately
 Helium used as tracer compound

Shipper Name Felix Air Bill # MA Temp (°C) MA Condition good Custody Seals Intact? Yes No None Work Order # 0911151

Roxana Data Review

Laboratory SDG: 0911151B

Reviewer: Tony Sedlacek

Date Reviewed: 1/9/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-301-5	VMP-301-38.5
VMP-401-5	VMP-401-38.5

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative and cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Not applicable; samples were analyzed for Methane and fixed gases in air and surrogates are not required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No, MS/MSD samples are not collected for Method ASTM D-1946 since spiking material is unable to be added to the summa canister.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

11/20/2009

Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana, IL/ Dissolved Phase
Project #: URS 21562175.99000
Workorder #: 0911151B

Dear Mr. Mike Miller

The following report includes the data for the above referenced project for sample(s) received on 11/7/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



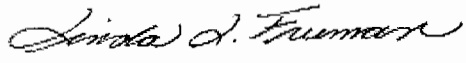
Ausha Scott
Project Manager

WORK ORDER #: 0911151B

Work Order Summary

CLIENT:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-566-3073	P.O. #	
FAX:		PROJECT #	URS 21562175.99000 Roxana, IL/
DATE RECEIVED:	11/07/2009	CONTACT:	Dissolved Phase Ausha Scott
DATE COMPLETED:	11/20/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-301-5	Modified ASTM D-1946	6.5 "Hg	15 psi
02A	VMP-301-38.5	Modified ASTM D-1946	5.5 "Hg	15 psi
03A	VMP-401-5	Modified ASTM D-1946	6.5 "Hg	15 psi
04A	VMP-401-38.5	Modified ASTM D-1946	3.5 "Hg	15 psi
05A	Lab Blank	Modified ASTM D-1946	NA	NA
05B	Lab Blank	Modified ASTM D-1946	NA	NA
06A	LCS	Modified ASTM D-1946	NA	NA

CERTIFIED BY: 

DATE: 11/20/09

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
 NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 0911151B**

Four 1 Liter Summa Canister samples were received on November 07, 2009. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a \geq 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-301-5

Lab ID#: 0911151B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	16
Nitrogen	0.26	80
Carbon Dioxide	0.026	4.0

Client Sample ID: VMP-301-38.5

Lab ID#: 0911151B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.8
Nitrogen	0.25	56
Methane	0.00025	31
Carbon Dioxide	0.025	5.6
Ethane	0.0025	0.013

Client Sample ID: VMP-401-5

Lab ID#: 0911151B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	12
Nitrogen	0.26	81
Methane	0.00026	1.8
Carbon Dioxide	0.026	4.6

Client Sample ID: VMP-401-38.5

Lab ID#: 0911151B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.9
Nitrogen	0.23	57
Methane	0.00023	30
Carbon Dioxide	0.023	5.8
Ethane	0.0023	0.013
Helium	0.11	0.17

Client Sample ID: VMP-301-5

Lab ID#: 0911151B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110813	Date of Collection:	10/26/09 10:22:00 AM
Dil. Factor:	2.58	Date of Analysis:	11/8/09 12:38 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	16
Nitrogen	0.26	80
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	Not Detected
Carbon Dioxide	0.026	4.0
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-301-38.5

Lab ID#: 0911151B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110814	Date of Collection:	10/26/09 12:40:00 PM
Dil. Factor:	2.47	Date of Analysis:	11/8/09 01:25 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.8
Nitrogen	0.25	56
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	31
Carbon Dioxide	0.025	5.6
Ethane	0.0025	0.013
Ethene	0.0025	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-401-5

Lab ID#: 0911151B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110815	Date of Collection:	10/29/09 10:53:00 AM
Dil. Factor:	2.58	Date of Analysis:	11/8/09 01:47 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	12
Nitrogen	0.26	81
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	1.8
Carbon Dioxide	0.026	4.6
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-401-38.5

Lab ID#: 0911151B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110816	Date of Collection:	10/29/09 11:49:00 AM
Dil. Factor:	2.29	Date of Analysis:	11/8/09 02:29 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.9
Nitrogen	0.23	57
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	30
Carbon Dioxide	0.023	5.8
Ethane	0.0023	0.013
Ethene	0.0023	Not Detected
Helium	0.11	0.17

Container Type: 1 Liter Summa Canister



Client Sample ID: Lab Blank

Lab ID#: 0911151B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110805	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/8/09 09:15 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

Container Type: NA - Not Applicable



Client Sample ID: Lab Blank

Lab ID#: 0911151B-05B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110804b	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/8/09 08:45 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable



Client Sample ID: LCS

Lab ID#: 0911151B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9110803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/8/09 08:22 AM

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	103
Methane	100
Carbon Dioxide	101
Ethane	99
Ethene	100
Helium	105

Container Type: NA - Not Applicable



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CHAIN-OF-CUSTODY RECORD

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager Andre Sait (Air Toxics) / Seth Adams (CUPA)
 Collected by: (Print and Sign) Michael Miller
 Company URS Corporation Email mueller@urscorp.com
 Address 1001 Hightech Plaza 5th Floor Suite 400 Sale # 63110
 Phone (314) 479-0100 Fax (314) 479-0462

Project Info:
 P.O. # 465
 Project # 2156733-00003898
 Project Name Radon, Zi / Dissolved
 Turn Around Time: Normal Rush
 Date: _____
 Pressurization Gas: N₂ He _____
 Lab Use Only Pressurized by: _____

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
01A	VMP-301-5	000003878	10/26/09	09:52/10:32	ASTM D1546 plus 46	-36	-8.0
02A	VMP-301-38.5	000005593	10/26/09	12:10/12:46	“	-30	-7.5
03A	VMP-401-5	000003893	10/29/09	10:23/10:53	“	-30	-7.5
04A	VMP-401-36.5	01014	10/29/09	11:52/11:49	“	-30	-4.0

Relinquished by: (signature) [Signature] Date/Time _____
 Received by: (signature) Felix Date/Time _____
 Relinquished by: (signature) [Signature] Date/Time _____
 Received by: (signature) [Signature] Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Notes:
 Place cap involving separately
 Helium used as tracer compound

Lab Use Only
 Shipper Name: Felix
 Air Bill #: _____
 Temp (°C): NA
 Condition: good
 Custody Seals Intact? Yes No
 Work Order #: 0911151

Roxana Data Review

Laboratory SDG: 0911152A

Reviewer: Tony Sedlacek

Date Reviewed: 1/9/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-4-5	VMP-4-12
VMP-4-23.5	VMP-4-39
VMP-5-5	VMP-5-12.5
VMP-5-12.5-D	VMP-5-31
VMP-5-40	VMP-6-5
VMP-6-10	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that samples were diluted due to high levels of target analytes. The surrogate recovery for 1,2-dichloroethane-d4 was outside evaluation criteria. Although not indicated in the laboratory case narrative, the LCS recovery for 1,2,4-Trichlorobenzene was outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
0911152A-14B	VOCs	1,2,4-Trichlorobenzene	67	N/A	70-130

Analytical data that required qualification based on LCS data are included in the table below.

Field ID	Parameter	Analyte	Qualification
VMP-4-5	VOCs	1,2,4-Trichlorobenzene	UJ
VMP-4-12	VOCs	1,2,4-Trichlorobenzene	UJ
VMP-5-5	VOCs	1,2,4-Trichlorobenzene	UJ

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Field ID	Parameter	Surrogate	Recovery	Criteria
VMP-6-5	VOCs	1,2-Dichloroethane-d ₄	133	70-130

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
VMP-6-5	VOCs	Hexane	J
VMP-6-5	VOCs	Cyclohexane	J
VMP-6-5	VOCs	2,2,4-Trimethylpentane	J
VMP-6-5	VOCs	Benzene	J
VMP-6-5	VOCs	Heptane	J
VMP-6-5	VOCs	Ethylbenzene	J
VMP-6-5	VOCs	<i>m,p</i> -Xylene	J
VMP-6-5	VOCs	Cumene	J

Field ID	Parameter	Analyte	Qualification
VMP-6-5	VOCs	Propylbenzene	J

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No, MS/MSD samples are not collected for Method TO-15 since spiking material is unable to be added to the summa canister.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

Yes, samples VMP-5-5 were duplicated and analyzed for VOCs.

Were laboratory duplicate sample RPDs within criteria?

Yes

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-5-12.5	VMP-5-12.5-D

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

11/25/2009
Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana, IL Dissolved Phase
Project #: URS 21562175.00005
Workorder #: 0911152A

Dear Mr. Mike Miller

The following report includes the data for the above referenced project for sample(s) received on 11/7/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 0911152A

Work Order Summary

CLIENT:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-566-3073	P.O. #	
FAX:		PROJECT #	URS 21562175.00005 Roxana, IL
DATE RECEIVED:	11/07/2009	CONTACT:	Dissolved Phase Ausha Scott
DATE COMPLETED:	11/25/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-4-5	Modified TO-15 (5&20 ppbv	6.0 "Hg	15 psi
02A	VMP-4-12	Modified TO-15 (5&20 ppbv	6.0 "Hg	15 psi
03A	VMP-4-23.5	Modified TO-15 (5&20 ppbv	4.0 "Hg	15 psi
04A	VMP-4-39	Modified TO-15 (5&20 ppbv	4.5 "Hg	15 psi
05A	VMP-5-5	Modified TO-15 (5&20 ppbv	3.0 "Hg	15 psi
05AA	VMP-5-5 Lab Duplicate	Modified TO-15 (5&20 ppbv	3.0 "Hg	15 psi
06A	VMP-5-12.5	Modified TO-15 (5&20 ppbv	6.5 "Hg	15 psi
07A	VMP-5-12.5-D	Modified TO-15 (5&20 ppbv	4.0 "Hg	15 psi
08A	VMP-5-31	Modified TO-15 (5&20 ppbv	4.5 "Hg	15 psi
09A	VMP-5-40	Modified TO-15 (5&20 ppbv	11.5 "Hg	15 psi
10A	VMP-6-5	Modified TO-15 (5&20 ppbv	4.5 "Hg	15 psi
11A	VMP-6-10	Modified TO-15 (5&20 ppbv	6.5 "Hg	15 psi
12A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
12B	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
13A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
13B	CCV	Modified TO-15 (5&20 ppbv	NA	NA
14A	LCS	Modified TO-15 (5&20 ppbv	NA	NA

Continued on next page

WORK ORDER #: 0911152A

Work Order Summary

CLIENT:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-566-3073	P.O. #	
FAX:		PROJECT #	URS 21562175.00005 Roxana, IL
DATE RECEIVED:	11/07/2009	CONTACT:	Dissolved Phase Ausha Scott
DATE COMPLETED:	11/25/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
14B	LCS	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY: *Sinola J. Freeman*

DATE: 11/25/09

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
 NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15 Soil Gas
URS Corporation
Workorder# 0911152A**

Eleven 1 Liter Summa Canister samples were received on November 07, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Daily CCV	+/- 30% Difference	<= 30% Difference with two allowed out up to <=40%; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples VMP-4-12, VMP-5-5, VMP-5-12.5-D, and VMP-5-40 due to the presence of high level non-target species.

The recovery of surrogate 1,2-Dichloroethane-d4 in sample VMP-6-5 was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-4-5

Lab ID#: 0911152A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	13	150	44	540
Cyclohexane	13	1700	44	5700
2,2,4-Trimethylpentane	13	4200	59	20000

Client Sample ID: VMP-4-12

Lab ID#: 0911152A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	210	36000	740	130000
Cyclohexane	210	49000	730	170000
2,2,4-Trimethylpentane	210	64000	980	300000
Benzene	210	990	670	3200
Heptane	210	8400	860	35000
m,p-Xylene	210	350	920	1500
4-Ethyltoluene	210	250	1000	1200

Client Sample ID: VMP-4-23.5

Lab ID#: 0911152A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	9700	4000000	34000	14000000
Cyclohexane	9700	720000	33000	2500000
2,2,4-Trimethylpentane	9700	1000000	45000	4700000
Benzene	9700	170000	31000	540000
Heptane	9700	880000	40000	3600000
Toluene	9700	380000	36000	1400000
Ethyl Benzene	9700	160000	42000	720000
m,p-Xylene	9700	290000	42000	1300000
o-Xylene	9700	94000	42000	410000
4-Ethyltoluene	9700	23000	48000	110000
1,2,4-Trimethylbenzene	9700	16000	48000	78000

Client Sample ID: VMP-4-39

Lab ID#: 0911152A-04A

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-4-39

Lab ID#: 0911152A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	7400	3900000	26000	14000000
Cyclohexane	7400	700000	26000	2400000
2,2,4-Trimethylpentane	7400	970000	35000	4500000
Benzene	7400	200000	24000	660000
Heptane	7400	860000	30000	3500000
Toluene	7400	110000	28000	420000
Ethyl Benzene	7400	140000	32000	620000
m,p-Xylene	7400	240000	32000	1100000
o-Xylene	7400	74000	32000	320000
Propylbenzene	7400	7900	37000	39000
4-Ethyltoluene	7400	24000	37000	120000
1,2,4-Trimethylbenzene	7400	17000	37000	83000

Client Sample ID: VMP-5-5

Lab ID#: 0911152A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	220	48000	790	170000
Cyclohexane	220	23000	770	78000
2,2,4-Trimethylpentane	220	79000	1000	370000
Benzene	220	480	720	1500
Heptane	220	2200	920	9100

Client Sample ID: VMP-5-5 Lab Duplicate

Lab ID#: 0911152A-05AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	220	48000	790	170000
Cyclohexane	220	23000	770	78000
2,2,4-Trimethylpentane	220	79000	1000	370000
Benzene	220	470	720	1500
Heptane	220	2200	920	8800

Client Sample ID: VMP-5-12.5

Lab ID#: 0911152A-06A

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-5-12.5

Lab ID#: 0911152A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	260	180000	910	650000
Cyclohexane	260	70000	890	240000
2,2,4-Trimethylpentane	260	200000	1200	960000
Benzene	260	1800	820	5800
Heptane	260	11000	1000	46000

Client Sample ID: VMP-5-12.5-D

Lab ID#: 0911152A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	580	180000	2000	640000
Cyclohexane	580	70000	2000	240000
2,2,4-Trimethylpentane	580	220000	2700	1000000
Benzene	580	1900	1800	6000
Heptane	580	11000	2400	47000

Client Sample ID: VMP-5-31

Lab ID#: 0911152A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	2400	1400000	8400	4900000
Cyclohexane	2400	460000	8200	1600000
2,2,4-Trimethylpentane	2400	850000	11000	4000000
Benzene	2400	51000	7600	160000
Heptane	2400	220000	9800	910000

Client Sample ID: VMP-5-40

Lab ID#: 0911152A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	3300	1200000	12000	4400000
Cyclohexane	3300	390000	11000	1400000
2,2,4-Trimethylpentane	3300	720000	15000	3400000
Benzene	3300	54000	10000	170000
Heptane	3300	200000	13000	810000

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-6-5

Lab ID#: 0911152A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	400	200000	1400	720000
Cyclohexane	400	110000	1400	380000
2,2,4-Trimethylpentane	400	310000	1800	1400000
Benzene	400	1800	1300	5800
Heptane	400	92000	1600	380000
Ethyl Benzene	400	1500	1700	6500
m,p-Xylene	400	720	1700	3100
Cumene	400	540	1900	2700
Propylbenzene	400	1200	1900	5800

Client Sample ID: VMP-6-10

Lab ID#: 0911152A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	430	250000	1500	900000
Cyclohexane	430	140000	1500	470000
2,2,4-Trimethylpentane	430	380000	2000	1800000
Benzene	430	2000	1400	6400
Heptane	430	120000	1800	480000
Ethyl Benzene	430	1200	1900	5200
m,p-Xylene	430	780	1900	3400
Cumene	430	730	2100	3600
Propylbenzene	430	1600	2100	8000

Client Sample ID: VMP-4-5

Lab ID#: 0911152A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112323	Date of Collection:	11/5/09 9:35:00 AM
Dil. Factor:	2.53	Date of Analysis:	11/23/09 07:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13	Not Detected	62	Not Detected
Freon 114	13	Not Detected	88	Not Detected
Chloromethane	51	Not Detected	100	Not Detected
Vinyl Chloride	13	Not Detected	32	Not Detected
1,3-Butadiene	13	Not Detected	28	Not Detected
Bromomethane	13	Not Detected	49	Not Detected
Chloroethane	13	Not Detected	33	Not Detected
Freon 11	13	Not Detected	71	Not Detected
Ethanol	51	Not Detected	95	Not Detected
Freon 113	13	Not Detected	97	Not Detected
1,1-Dichloroethene	13	Not Detected	50	Not Detected
Acetone	51	Not Detected	120	Not Detected
2-Propanol	51	Not Detected	120	Not Detected
Carbon Disulfide	13	Not Detected	39	Not Detected
3-Chloropropene	51	Not Detected	160	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
Methyl tert-butyl ether	13	Not Detected	46	Not Detected
trans-1,2-Dichloroethene	13	Not Detected	50	Not Detected
Hexane	13	150	44	540
1,1-Dichloroethane	13	Not Detected	51	Not Detected
2-Butanone (Methyl Ethyl Ketone)	13	Not Detected	37	Not Detected
cis-1,2-Dichloroethene	13	Not Detected	50	Not Detected
Tetrahydrofuran	13	Not Detected	37	Not Detected
Chloroform	13	Not Detected	62	Not Detected
1,1,1-Trichloroethane	13	Not Detected	69	Not Detected
Cyclohexane	13	1700	44	5700
Carbon Tetrachloride	13	Not Detected	80	Not Detected
2,2,4-Trimethylpentane	13	4200	59	20000
Benzene	13	Not Detected	40	Not Detected
1,2-Dichloroethane	13	Not Detected	51	Not Detected
Heptane	13	Not Detected	52	Not Detected
Trichloroethene	13	Not Detected	68	Not Detected
1,2-Dichloropropane	13	Not Detected	58	Not Detected
1,4-Dioxane	51	Not Detected	180	Not Detected
Bromodichloromethane	13	Not Detected	85	Not Detected
cis-1,3-Dichloropropene	13	Not Detected	57	Not Detected
4-Methyl-2-pentanone	13	Not Detected	52	Not Detected
Toluene	13	Not Detected	48	Not Detected
trans-1,3-Dichloropropene	13	Not Detected	57	Not Detected



Client Sample ID: VMP-4-5

Lab ID#: 0911152A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112323	Date of Collection:	11/5/09 9:35:00 AM
Dil. Factor:	2.53	Date of Analysis:	11/23/09 07:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	13	Not Detected	69	Not Detected
Tetrachloroethene	13	Not Detected	86	Not Detected
2-Hexanone	51	Not Detected	210	Not Detected
Dibromochloromethane	13	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	13	Not Detected	97	Not Detected
Chlorobenzene	13	Not Detected	58	Not Detected
Ethyl Benzene	13	Not Detected	55	Not Detected
m,p-Xylene	13	Not Detected	55	Not Detected
o-Xylene	13	Not Detected	55	Not Detected
Styrene	13	Not Detected	54	Not Detected
Bromoform	13	Not Detected	130	Not Detected
Cumene	13	Not Detected	62	Not Detected
1,1,2,2-Tetrachloroethane	13	Not Detected	87	Not Detected
Propylbenzene	13	Not Detected	62	Not Detected
4-Ethyltoluene	13	Not Detected	62	Not Detected
1,3,5-Trimethylbenzene	13	Not Detected	62	Not Detected
1,2,4-Trimethylbenzene	13	Not Detected	62	Not Detected
1,3-Dichlorobenzene	13	Not Detected	76	Not Detected
1,4-Dichlorobenzene	13	Not Detected	76	Not Detected
alpha-Chlorotoluene	13	Not Detected	65	Not Detected
1,2-Dichlorobenzene	13	Not Detected	76	Not Detected
1,2,4-Trichlorobenzene	51	Not Detected	380	Not Detected
Hexachlorobutadiene	51	Not Detected	540	Not Detected

"uJ"

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: VMP-4-12

Lab ID#: 0911152A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112324	Date of Collection:	11/5/09 10:58:00 AM
Dil. Factor:	42.2	Date of Analysis:	11/23/09 08:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	210	Not Detected	1000	Not Detected
Freon 114	210	Not Detected	1500	Not Detected
Chloromethane	840	Not Detected	1700	Not Detected
Vinyl Chloride	210	Not Detected	540	Not Detected
1,3-Butadiene	210	Not Detected	470	Not Detected
Bromomethane	210	Not Detected	820	Not Detected
Chloroethane	210	Not Detected	560	Not Detected
Freon 11	210	Not Detected	1200	Not Detected
Ethanol	840	Not Detected	1600	Not Detected
Freon 113	210	Not Detected	1600	Not Detected
1,1-Dichloroethene	210	Not Detected	840	Not Detected
Acetone	840	Not Detected	2000	Not Detected
2-Propanol	840	Not Detected	2100	Not Detected
Carbon Disulfide	210	Not Detected	660	Not Detected
3-Chloropropene	840	Not Detected	2600	Not Detected
Methylene Chloride	210	Not Detected	730	Not Detected
Methyl tert-butyl ether	210	Not Detected	760	Not Detected
trans-1,2-Dichloroethene	210	Not Detected	840	Not Detected
Hexane	210	36000	740	130000
1,1-Dichloroethane	210	Not Detected	850	Not Detected
2-Butanone (Methyl Ethyl Ketone)	210	Not Detected	620	Not Detected
cis-1,2-Dichloroethene	210	Not Detected	840	Not Detected
Tetrahydrofuran	210	Not Detected	620	Not Detected
Chloroform	210	Not Detected	1000	Not Detected
1,1,1-Trichloroethane	210	Not Detected	1200	Not Detected
Cyclohexane	210	49000	730	170000
Carbon Tetrachloride	210	Not Detected	1300	Not Detected
2,2,4-Trimethylpentane	210	64000	980	300000
Benzene	210	990	670	3200
1,2-Dichloroethane	210	Not Detected	850	Not Detected
Heptane	210	8400	860	35000
Trichloroethene	210	Not Detected	1100	Not Detected
1,2-Dichloropropane	210	Not Detected	980	Not Detected
1,4-Dioxane	840	Not Detected	3000	Not Detected
Bromodichloromethane	210	Not Detected	1400	Not Detected
cis-1,3-Dichloropropene	210	Not Detected	960	Not Detected
4-Methyl-2-pentanone	210	Not Detected	860	Not Detected
Toluene	210	Not Detected	800	Not Detected
trans-1,3-Dichloropropene	210	Not Detected	960	Not Detected



Client Sample ID: VMP-4-12

Lab ID#: 0911152A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112324	Date of Collection:	11/5/09 10:58:00 AM
Dil. Factor:	42.2	Date of Analysis:	11/23/09 08:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	210	Not Detected	1200	Not Detected
Tetrachloroethene	210	Not Detected	1400	Not Detected
2-Hexanone	840	Not Detected	3400	Not Detected
Dibromochloromethane	210	Not Detected	1800	Not Detected
1,2-Dibromoethane (EDB)	210	Not Detected	1600	Not Detected
Chlorobenzene	210	Not Detected	970	Not Detected
Ethyl Benzene	210	Not Detected	920	Not Detected
m,p-Xylene	210	350	920	1500
o-Xylene	210	Not Detected	920	Not Detected
Styrene	210	Not Detected	900	Not Detected
Bromoform	210	Not Detected	2200	Not Detected
Cumene	210	Not Detected	1000	Not Detected
1,1,2,2-Tetrachloroethane	210	Not Detected	1400	Not Detected
Propylbenzene	210	Not Detected	1000	Not Detected
4-Ethyltoluene	210	250	1000	1200
1,3,5-Trimethylbenzene	210	Not Detected	1000	Not Detected
1,2,4-Trimethylbenzene	210	Not Detected	1000	Not Detected
1,3-Dichlorobenzene	210	Not Detected	1300	Not Detected
1,4-Dichlorobenzene	210	Not Detected	1300	Not Detected
alpha-Chlorotoluene	210	Not Detected	1100	Not Detected
1,2-Dichlorobenzene	210	Not Detected	1300	Not Detected
1,2,4-Trichlorobenzene	840	Not Detected	6300	Not Detected
Hexachlorobutadiene	840	Not Detected	9000	Not Detected

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Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	100	70-130



Client Sample ID: VMP-4-23.5

Lab ID#: 0911152A-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112013	Date of Collection:	11/5/09 12:08:00 PM
Dil. Factor:	1940	Date of Analysis:	11/20/09 03:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	9700	Not Detected	48000	Not Detected
Freon 114	9700	Not Detected	68000	Not Detected
Chloromethane	39000	Not Detected	80000	Not Detected
Vinyl Chloride	9700	Not Detected	25000	Not Detected
1,3-Butadiene	9700	Not Detected	21000	Not Detected
Bromomethane	9700	Not Detected	38000	Not Detected
Chloroethane	9700	Not Detected	26000	Not Detected
Freon 11	9700	Not Detected	54000	Not Detected
Ethanol	39000	Not Detected	73000	Not Detected
Freon 113	9700	Not Detected	74000	Not Detected
1,1-Dichloroethene	9700	Not Detected	38000	Not Detected
Acetone	39000	Not Detected	92000	Not Detected
2-Propanol	39000	Not Detected	95000	Not Detected
Carbon Disulfide	9700	Not Detected	30000	Not Detected
3-Chloropropene	39000	Not Detected	120000	Not Detected
Methylene Chloride	9700	Not Detected	34000	Not Detected
Methyl tert-butyl ether	9700	Not Detected	35000	Not Detected
trans-1,2-Dichloroethene	9700	Not Detected	38000	Not Detected
Hexane	9700	4000000	34000	14000000
1,1-Dichloroethane	9700	Not Detected	39000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9700	Not Detected	29000	Not Detected
cis-1,2-Dichloroethene	9700	Not Detected	38000	Not Detected
Tetrahydrofuran	9700	Not Detected	29000	Not Detected
Chloroform	9700	Not Detected	47000	Not Detected
1,1,1-Trichloroethane	9700	Not Detected	53000	Not Detected
Cyclohexane	9700	720000	33000	2500000
Carbon Tetrachloride	9700	Not Detected	61000	Not Detected
2,2,4-Trimethylpentane	9700	1000000	45000	4700000
Benzene	9700	170000	31000	540000
1,2-Dichloroethane	9700	Not Detected	39000	Not Detected
Heptane	9700	880000	40000	3600000
Trichloroethene	9700	Not Detected	52000	Not Detected
1,2-Dichloropropane	9700	Not Detected	45000	Not Detected
1,4-Dioxane	39000	Not Detected	140000	Not Detected
Bromodichloromethane	9700	Not Detected	65000	Not Detected
cis-1,3-Dichloropropene	9700	Not Detected	44000	Not Detected
4-Methyl-2-pentanone	9700	Not Detected	40000	Not Detected
Toluene	9700	380000	36000	1400000
trans-1,3-Dichloropropene	9700	Not Detected	44000	Not Detected



Client Sample ID: VMP-4-23.5

Lab ID#: 0911152A-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112013	Date of Collection:	11/5/09 12:08:00 PM
Dil. Factor:	1940	Date of Analysis:	11/20/09 03:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	9700	Not Detected	53000	Not Detected
Tetrachloroethene	9700	Not Detected	66000	Not Detected
2-Hexanone	39000	Not Detected	160000	Not Detected
Dibromochloromethane	9700	Not Detected	83000	Not Detected
1,2-Dibromoethane (EDB)	9700	Not Detected	74000	Not Detected
Chlorobenzene	9700	Not Detected	45000	Not Detected
Ethyl Benzene	9700	160000	42000	720000
m,p-Xylene	9700	290000	42000	1300000
o-Xylene	9700	94000	42000	410000
Styrene	9700	Not Detected	41000	Not Detected
Bromoform	9700	Not Detected	100000	Not Detected
Cumene	9700	Not Detected	48000	Not Detected
1,1,2,2-Tetrachloroethane	9700	Not Detected	66000	Not Detected
Propylbenzene	9700	Not Detected	48000	Not Detected
4-Ethyltoluene	9700	23000	48000	110000
1,3,5-Trimethylbenzene	9700	Not Detected	48000	Not Detected
1,2,4-Trimethylbenzene	9700	16000	48000	78000
1,3-Dichlorobenzene	9700	Not Detected	58000	Not Detected
1,4-Dichlorobenzene	9700	Not Detected	58000	Not Detected
alpha-Chlorotoluene	9700	Not Detected	50000	Not Detected
1,2-Dichlorobenzene	9700	Not Detected	58000	Not Detected
1,2,4-Trichlorobenzene	39000	Not Detected	290000	Not Detected
Hexachlorobutadiene	39000	Not Detected	410000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: VMP-4-39

Lab ID#: 0911152A-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112015	Date of Collection:	11/5/09 1:03:00 PM
Dil. Factor:	1490	Date of Analysis:	11/20/09 04:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7400	Not Detected	37000	Not Detected
Freon 114	7400	Not Detected	52000	Not Detected
Chloromethane	30000	Not Detected	62000	Not Detected
Vinyl Chloride	7400	Not Detected	19000	Not Detected
1,3-Butadiene	7400	Not Detected	16000	Not Detected
Bromomethane	7400	Not Detected	29000	Not Detected
Chloroethane	7400	Not Detected	20000	Not Detected
Freon 11	7400	Not Detected	42000	Not Detected
Ethanol	30000	Not Detected	56000	Not Detected
Freon 113	7400	Not Detected	57000	Not Detected
1,1-Dichloroethene	7400	Not Detected	30000	Not Detected
Acetone	30000	Not Detected	71000	Not Detected
2-Propanol	30000	Not Detected	73000	Not Detected
Carbon Disulfide	7400	Not Detected	23000	Not Detected
3-Chloropropene	30000	Not Detected	93000	Not Detected
Methylene Chloride	7400	Not Detected	26000	Not Detected
Methyl tert-butyl ether	7400	Not Detected	27000	Not Detected
trans-1,2-Dichloroethene	7400	Not Detected	30000	Not Detected
Hexane	7400	3900000	26000	1400000
1,1-Dichloroethane	7400	Not Detected	30000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7400	Not Detected	22000	Not Detected
cis-1,2-Dichloroethene	7400	Not Detected	30000	Not Detected
Tetrahydrofuran	7400	Not Detected	22000	Not Detected
Chloroform	7400	Not Detected	36000	Not Detected
1,1,1-Trichloroethane	7400	Not Detected	41000	Not Detected
Cyclohexane	7400	700000	26000	2400000
Carbon Tetrachloride	7400	Not Detected	47000	Not Detected
2,2,4-Trimethylpentane	7400	970000	35000	4500000
Benzene	7400	200000	24000	660000
1,2-Dichloroethane	7400	Not Detected	30000	Not Detected
Heptane	7400	860000	30000	3500000
Trichloroethene	7400	Not Detected	40000	Not Detected
1,2-Dichloropropane	7400	Not Detected	34000	Not Detected
1,4-Dioxane	30000	Not Detected	110000	Not Detected
Bromodichloromethane	7400	Not Detected	50000	Not Detected
cis-1,3-Dichloropropene	7400	Not Detected	34000	Not Detected
4-Methyl-2-pentanone	7400	Not Detected	30000	Not Detected
Toluene	7400	110000	28000	420000
trans-1,3-Dichloropropene	7400	Not Detected	34000	Not Detected



Client Sample ID: VMP-4-39

Lab ID#: 0911152A-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112015	Date of Collection:	11/5/09 1:03:00 PM
Dil. Factor:	1490	Date of Analysis:	11/20/09 04:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	7400	Not Detected	41000	Not Detected
Tetrachloroethene	7400	Not Detected	50000	Not Detected
2-Hexanone	30000	Not Detected	120000	Not Detected
Dibromochloromethane	7400	Not Detected	63000	Not Detected
1,2-Dibromoethane (EDB)	7400	Not Detected	57000	Not Detected
Chlorobenzene	7400	Not Detected	34000	Not Detected
Ethyl Benzene	7400	140000	32000	620000
m,p-Xylene	7400	240000	32000	1100000
o-Xylene	7400	74000	32000	320000
Styrene	7400	Not Detected	32000	Not Detected
Bromoform	7400	Not Detected	77000	Not Detected
Cumene	7400	Not Detected	37000	Not Detected
1,1,2,2-Tetrachloroethane	7400	Not Detected	51000	Not Detected
Propylbenzene	7400	7900	37000	39000
4-Ethyltoluene	7400	24000	37000	120000
1,3,5-Trimethylbenzene	7400	Not Detected	37000	Not Detected
1,2,4-Trimethylbenzene	7400	17000	37000	83000
1,3-Dichlorobenzene	7400	Not Detected	45000	Not Detected
1,4-Dichlorobenzene	7400	Not Detected	45000	Not Detected
alpha-Chlorotoluene	7400	Not Detected	38000	Not Detected
1,2-Dichlorobenzene	7400	Not Detected	45000	Not Detected
1,2,4-Trichlorobenzene	30000	Not Detected	220000	Not Detected
Hexachlorobutadiene	30000	Not Detected	320000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: VMP-5-5

Lab ID#: 0911152A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112325	Date of Collection:	11/5/09 3:11:00 PM
Dil. Factor:	44.8	Date of Analysis:	11/23/09 09:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	220	Not Detected	1100	Not Detected
Freon 114	220	Not Detected	1600	Not Detected
Chloromethane	900	Not Detected	1800	Not Detected
Vinyl Chloride	220	Not Detected	570	Not Detected
1,3-Butadiene	220	Not Detected	500	Not Detected
Bromomethane	220	Not Detected	870	Not Detected
Chloroethane	220	Not Detected	590	Not Detected
Freon 11	220	Not Detected	1200	Not Detected
Ethanol	900	Not Detected	1700	Not Detected
Freon 113	220	Not Detected	1700	Not Detected
1,1-Dichloroethene	220	Not Detected	890	Not Detected
Acetone	900	Not Detected	2100	Not Detected
2-Propanol	900	Not Detected	2200	Not Detected
Carbon Disulfide	220	Not Detected	700	Not Detected
3-Chloropropene	900	Not Detected	2800	Not Detected
Methylene Chloride	220	Not Detected	780	Not Detected
Methyl tert-butyl ether	220	Not Detected	810	Not Detected
trans-1,2-Dichloroethene	220	Not Detected	890	Not Detected
Hexane	220	48000	790	170000
1,1-Dichloroethane	220	Not Detected	910	Not Detected
2-Butanone (Methyl Ethyl Ketone)	220	Not Detected	660	Not Detected
cis-1,2-Dichloroethene	220	Not Detected	890	Not Detected
Tetrahydrofuran	220	Not Detected	660	Not Detected
Chloroform	220	Not Detected	1100	Not Detected
1,1,1-Trichloroethane	220	Not Detected	1200	Not Detected
Cyclohexane	220	23000	770	78000
Carbon Tetrachloride	220	Not Detected	1400	Not Detected
2,2,4-Trimethylpentane	220	79000	1000	370000
Benzene	220	480	720	1500
1,2-Dichloroethane	220	Not Detected	910	Not Detected
Heptane	220	2200	920	9100
Trichloroethene	220	Not Detected	1200	Not Detected
1,2-Dichloropropane	220	Not Detected	1000	Not Detected
1,4-Dioxane	900	Not Detected	3200	Not Detected
Bromodichloromethane	220	Not Detected	1500	Not Detected
cis-1,3-Dichloropropene	220	Not Detected	1000	Not Detected
4-Methyl-2-pentanone	220	Not Detected	920	Not Detected
Toluene	220	Not Detected	840	Not Detected
trans-1,3-Dichloropropene	220	Not Detected	1000	Not Detected



Client Sample ID: VMP-5-5

Lab ID#: 0911152A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112325	Date of Collection:	11/5/09 3:11:00 PM
Dil. Factor:	44.8	Date of Analysis:	11/23/09 09:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	220	Not Detected	1200	Not Detected
Tetrachloroethene	220	Not Detected	1500	Not Detected
2-Hexanone	900	Not Detected	3700	Not Detected
Dibromochloromethane	220	Not Detected	1900	Not Detected
1,2-Dibromoethane (EDB)	220	Not Detected	1700	Not Detected
Chlorobenzene	220	Not Detected	1000	Not Detected
Ethyl Benzene	220	Not Detected	970	Not Detected
m,p-Xylene	220	Not Detected	970	Not Detected
o-Xylene	220	Not Detected	970	Not Detected
Styrene	220	Not Detected	950	Not Detected
Bromoform	220	Not Detected	2300	Not Detected
Cumene	220	Not Detected	1100	Not Detected
1,1,2,2-Tetrachloroethane	220	Not Detected	1500	Not Detected
Propylbenzene	220	Not Detected	1100	Not Detected
4-Ethyltoluene	220	Not Detected	1100	Not Detected
1,3,5-Trimethylbenzene	220	Not Detected	1100	Not Detected
1,2,4-Trimethylbenzene	220	Not Detected	1100	Not Detected
1,3-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,4-Dichlorobenzene	220	Not Detected	1300	Not Detected
alpha-Chlorotoluene	220	Not Detected	1200	Not Detected
1,2-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,2,4-Trichlorobenzene	900	Not Detected	6600	Not Detected
Hexachlorobutadiene	900	Not Detected	9600	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130



Client Sample ID: VMP-5-5 Lab Duplicate

Lab ID#: 0911152A-05AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112326	Date of Collection:	11/5/09 3:11:00 PM
Dil. Factor:	44.8	Date of Analysis:	11/23/09 10:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	220	Not Detected	1100	Not Detected
Freon 114	220	Not Detected	1600	Not Detected
Chloromethane	900	Not Detected	1800	Not Detected
Vinyl Chloride	220	Not Detected	570	Not Detected
1,3-Butadiene	220	Not Detected	500	Not Detected
Bromomethane	220	Not Detected	870	Not Detected
Chloroethane	220	Not Detected	590	Not Detected
Freon 11	220	Not Detected	1200	Not Detected
Ethanol	900	Not Detected	1700	Not Detected
Freon 113	220	Not Detected	1700	Not Detected
1,1-Dichloroethene	220	Not Detected	890	Not Detected
Acetone	900	Not Detected	2100	Not Detected
2-Propanol	900	Not Detected	2200	Not Detected
Carbon Disulfide	220	Not Detected	700	Not Detected
3-Chloropropene	900	Not Detected	2800	Not Detected
Methylene Chloride	220	Not Detected	780	Not Detected
Methyl tert-butyl ether	220	Not Detected	810	Not Detected
trans-1,2-Dichloroethene	220	Not Detected	890	Not Detected
Hexane	220	48000	790	170000
1,1-Dichloroethane	220	Not Detected	910	Not Detected
2-Butanone (Methyl Ethyl Ketone)	220	Not Detected	660	Not Detected
cis-1,2-Dichloroethene	220	Not Detected	890	Not Detected
Tetrahydrofuran	220	Not Detected	660	Not Detected
Chloroform	220	Not Detected	1100	Not Detected
1,1,1-Trichloroethane	220	Not Detected	1200	Not Detected
Cyclohexane	220	23000	770	78000
Carbon Tetrachloride	220	Not Detected	1400	Not Detected
2,2,4-Trimethylpentane	220	79000	1000	370000
Benzene	220	470	720	1500
1,2-Dichloroethane	220	Not Detected	910	Not Detected
Heptane	220	2200	920	8800
Trichloroethene	220	Not Detected	1200	Not Detected
1,2-Dichloropropane	220	Not Detected	1000	Not Detected
1,4-Dioxane	900	Not Detected	3200	Not Detected
Bromodichloromethane	220	Not Detected	1500	Not Detected
cis-1,3-Dichloropropene	220	Not Detected	1000	Not Detected
4-Methyl-2-pentanone	220	Not Detected	920	Not Detected
Toluene	220	Not Detected	840	Not Detected
trans-1,3-Dichloropropene	220	Not Detected	1000	Not Detected



Client Sample ID: VMP-5-5 Lab Duplicate

Lab ID#: 0911152A-05AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112326	Date of Collection:	11/5/09 3:11:00 PM
Dil. Factor:	44.8	Date of Analysis:	11/23/09 10:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	220	Not Detected	1200	Not Detected
Tetrachloroethene	220	Not Detected	1500	Not Detected
2-Hexanone	900	Not Detected	3700	Not Detected
Dibromochloromethane	220	Not Detected	1900	Not Detected
1,2-Dibromoethane (EDB)	220	Not Detected	1700	Not Detected
Chlorobenzene	220	Not Detected	1000	Not Detected
Ethyl Benzene	220	Not Detected	970	Not Detected
m,p-Xylene	220	Not Detected	970	Not Detected
o-Xylene	220	Not Detected	970	Not Detected
Styrene	220	Not Detected	950	Not Detected
Bromoform	220	Not Detected	2300	Not Detected
Cumene	220	Not Detected	1100	Not Detected
1,1,2,2-Tetrachloroethane	220	Not Detected	1500	Not Detected
Propylbenzene	220	Not Detected	1100	Not Detected
4-Ethyltoluene	220	Not Detected	1100	Not Detected
1,3,5-Trimethylbenzene	220	Not Detected	1100	Not Detected
1,2,4-Trimethylbenzene	220	Not Detected	1100	Not Detected
1,3-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,4-Dichlorobenzene	220	Not Detected	1300	Not Detected
alpha-Chlorotoluene	220	Not Detected	1200	Not Detected
1,2-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,2,4-Trichlorobenzene	900	Not Detected	6600	Not Detected
Hexachlorobutadiene	900	Not Detected	9600	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: VMP-5-12.5

Lab ID#: 0911152A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112018	Date of Collection:	11/6/09 9:56:00 AM
Dil. Factor:	51.6	Date of Analysis:	11/20/09 06:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	260	Not Detected	1300	Not Detected
Freon 114	260	Not Detected	1800	Not Detected
Chloromethane	1000	Not Detected	2100	Not Detected
Vinyl Chloride	260	Not Detected	660	Not Detected
1,3-Butadiene	260	Not Detected	570	Not Detected
Bromomethane	260	Not Detected	1000	Not Detected
Chloroethane	260	Not Detected	680	Not Detected
Freon 11	260	Not Detected	1400	Not Detected
Ethanol	1000	Not Detected	1900	Not Detected
Freon 113	260	Not Detected	2000	Not Detected
1,1-Dichloroethene	260	Not Detected	1000	Not Detected
Acetone	1000	Not Detected	2400	Not Detected
2-Propanol	1000	Not Detected	2500	Not Detected
Carbon Disulfide	260	Not Detected	800	Not Detected
3-Chloropropene	1000	Not Detected	3200	Not Detected
Methylene Chloride	260	Not Detected	900	Not Detected
Methyl tert-butyl ether	260	Not Detected	930	Not Detected
trans-1,2-Dichloroethene	260	Not Detected	1000	Not Detected
Hexane	260	180000	910	650000
1,1-Dichloroethane	260	Not Detected	1000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	260	Not Detected	760	Not Detected
cis-1,2-Dichloroethene	260	Not Detected	1000	Not Detected
Tetrahydrofuran	260	Not Detected	760	Not Detected
Chloroform	260	Not Detected	1200	Not Detected
1,1,1-Trichloroethane	260	Not Detected	1400	Not Detected
Cyclohexane	260	70000	890	240000
Carbon Tetrachloride	260	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane	260	200000	1200	960000
Benzene	260	1800	820	5800
1,2-Dichloroethane	260	Not Detected	1000	Not Detected
Heptane	260	11000	1000	46000
Trichloroethene	260	Not Detected	1400	Not Detected
1,2-Dichloropropane	260	Not Detected	1200	Not Detected
1,4-Dioxane	1000	Not Detected	3700	Not Detected
Bromodichloromethane	260	Not Detected	1700	Not Detected
cis-1,3-Dichloropropene	260	Not Detected	1200	Not Detected
4-Methyl-2-pentanone	260	Not Detected	1000	Not Detected
Toluene	260	Not Detected	970	Not Detected
trans-1,3-Dichloropropene	260	Not Detected	1200	Not Detected



Client Sample ID: VMP-5-12.5

Lab ID#: 0911152A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112018	Date of Collection:	11/6/09 9:56:00 AM
Dil. Factor:	51.6	Date of Analysis:	11/20/09 06:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	260	Not Detected	1400	Not Detected
Tetrachloroethene	260	Not Detected	1800	Not Detected
2-Hexanone	1000	Not Detected	4200	Not Detected
Dibromochloromethane	260	Not Detected	2200	Not Detected
1,2-Dibromoethane (EDB)	260	Not Detected	2000	Not Detected
Chlorobenzene	260	Not Detected	1200	Not Detected
Ethyl Benzene	260	Not Detected	1100	Not Detected
m,p-Xylene	260	Not Detected	1100	Not Detected
o-Xylene	260	Not Detected	1100	Not Detected
Styrene	260	Not Detected	1100	Not Detected
Bromoform	260	Not Detected	2700	Not Detected
Cumene	260	Not Detected	1300	Not Detected
1,1,2,2-Tetrachloroethane	260	Not Detected	1800	Not Detected
Propylbenzene	260	Not Detected	1300	Not Detected
4-Ethyltoluene	260	Not Detected	1300	Not Detected
1,3,5-Trimethylbenzene	260	Not Detected	1300	Not Detected
1,2,4-Trimethylbenzene	260	Not Detected	1300	Not Detected
1,3-Dichlorobenzene	260	Not Detected	1600	Not Detected
1,4-Dichlorobenzene	260	Not Detected	1600	Not Detected
alpha-Chlorotoluene	260	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	260	Not Detected	1600	Not Detected
1,2,4-Trichlorobenzene	1000	Not Detected	7600	Not Detected
Hexachlorobutadiene	1000	Not Detected	11000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130



Client Sample ID: VMP-5-12.5-D

Lab ID#: 0911152A-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112019	Date of Collection:	11/6/09 9:46:00 AM
Dil. Factor:	116	Date of Analysis:	11/20/09 06:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	580	Not Detected	2900	Not Detected
Freon 114	580	Not Detected	4000	Not Detected
Chloromethane	2300	Not Detected	4800	Not Detected
Vinyl Chloride	580	Not Detected	1500	Not Detected
1,3-Butadiene	580	Not Detected	1300	Not Detected
Bromomethane	580	Not Detected	2200	Not Detected
Chloroethane	580	Not Detected	1500	Not Detected
Freon 11	580	Not Detected	3200	Not Detected
Ethanol	2300	Not Detected	4400	Not Detected
Freon 113	580	Not Detected	4400	Not Detected
1,1-Dichloroethene	580	Not Detected	2300	Not Detected
Acetone	2300	Not Detected	5500	Not Detected
2-Propanol	2300	Not Detected	5700	Not Detected
Carbon Disulfide	580	Not Detected	1800	Not Detected
3-Chloropropene	2300	Not Detected	7300	Not Detected
Methylene Chloride	580	Not Detected	2000	Not Detected
Methyl tert-butyl ether	580	Not Detected	2100	Not Detected
trans-1,2-Dichloroethene	580	Not Detected	2300	Not Detected
Hexane	580	180000	2000	640000
1,1-Dichloroethane	580	Not Detected	2300	Not Detected
2-Butanone (Methyl Ethyl Ketone)	580	Not Detected	1700	Not Detected
cis-1,2-Dichloroethene	580	Not Detected	2300	Not Detected
Tetrahydrofuran	580	Not Detected	1700	Not Detected
Chloroform	580	Not Detected	2800	Not Detected
1,1,1-Trichloroethane	580	Not Detected	3200	Not Detected
Cyclohexane	580	70000	2000	240000
Carbon Tetrachloride	580	Not Detected	3600	Not Detected
2,2,4-Trimethylpentane	580	220000	2700	1000000
Benzene	580	1900	1800	6000
1,2-Dichloroethane	580	Not Detected	2300	Not Detected
Heptane	580	11000	2400	47000
Trichloroethene	580	Not Detected	3100	Not Detected
1,2-Dichloropropane	580	Not Detected	2700	Not Detected
1,4-Dioxane	2300	Not Detected	8400	Not Detected
Bromodichloromethane	580	Not Detected	3900	Not Detected
cis-1,3-Dichloropropene	580	Not Detected	2600	Not Detected
4-Methyl-2-pentanone	580	Not Detected	2400	Not Detected
Toluene	580	Not Detected	2200	Not Detected
trans-1,3-Dichloropropene	580	Not Detected	2600	Not Detected



Client Sample ID: VMP-5-12.5-D

Lab ID#: 0911152A-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112019	Date of Collection:	11/6/09 9:46:00 AM
Dil. Factor:	116	Date of Analysis:	11/20/09 06:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	580	Not Detected	3200	Not Detected
Tetrachloroethene	580	Not Detected	3900	Not Detected
2-Hexanone	2300	Not Detected	9500	Not Detected
Dibromochloromethane	580	Not Detected	4900	Not Detected
1,2-Dibromoethane (EDB)	580	Not Detected	4400	Not Detected
Chlorobenzene	580	Not Detected	2700	Not Detected
Ethyl Benzene	580	Not Detected	2500	Not Detected
m,p-Xylene	580	Not Detected	2500	Not Detected
o-Xylene	580	Not Detected	2500	Not Detected
Styrene	580	Not Detected	2500	Not Detected
Bromoform	580	Not Detected	6000	Not Detected
Cumene	580	Not Detected	2800	Not Detected
1,1,2,2-Tetrachloroethane	580	Not Detected	4000	Not Detected
Propylbenzene	580	Not Detected	2800	Not Detected
4-Ethyltoluene	580	Not Detected	2800	Not Detected
1,3,5-Trimethylbenzene	580	Not Detected	2800	Not Detected
1,2,4-Trimethylbenzene	580	Not Detected	2800	Not Detected
1,3-Dichlorobenzene	580	Not Detected	3500	Not Detected
1,4-Dichlorobenzene	580	Not Detected	3500	Not Detected
alpha-Chlorotoluene	580	Not Detected	3000	Not Detected
1,2-Dichlorobenzene	580	Not Detected	3500	Not Detected
1,2,4-Trichlorobenzene	2300	Not Detected	17000	Not Detected
Hexachlorobutadiene	2300	Not Detected	25000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130



Client Sample ID: VMP-5-31

Lab ID#: 0911152A-08A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112020	Date of Collection:	11/6/09 11:04:00 AM
Dil. Factor:	476	Date of Analysis:	11/20/09 07:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2400	Not Detected	12000	Not Detected
Freon 114	2400	Not Detected	17000	Not Detected
Chloromethane	9500	Not Detected	20000	Not Detected
Vinyl Chloride	2400	Not Detected	6100	Not Detected
1,3-Butadiene	2400	Not Detected	5300	Not Detected
Bromomethane	2400	Not Detected	9200	Not Detected
Chloroethane	2400	Not Detected	6300	Not Detected
Freon 11	2400	Not Detected	13000	Not Detected
Ethanol	9500	Not Detected	18000	Not Detected
Freon 113	2400	Not Detected	18000	Not Detected
1,1-Dichloroethene	2400	Not Detected	9400	Not Detected
Acetone	9500	Not Detected	23000	Not Detected
2-Propanol	9500	Not Detected	23000	Not Detected
Carbon Disulfide	2400	Not Detected	7400	Not Detected
3-Chloropropene	9500	Not Detected	30000	Not Detected
Methylene Chloride	2400	Not Detected	8300	Not Detected
Methyl tert-butyl ether	2400	Not Detected	8600	Not Detected
trans-1,2-Dichloroethene	2400	Not Detected	9400	Not Detected
Hexane	2400	1400000	8400	4900000
1,1-Dichloroethane	2400	Not Detected	9600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2400	Not Detected	7000	Not Detected
cis-1,2-Dichloroethene	2400	Not Detected	9400	Not Detected
Tetrahydrofuran	2400	Not Detected	7000	Not Detected
Chloroform	2400	Not Detected	12000	Not Detected
1,1,1-Trichloroethane	2400	Not Detected	13000	Not Detected
Cyclohexane	2400	460000	8200	1600000
Carbon Tetrachloride	2400	Not Detected	15000	Not Detected
2,2,4-Trimethylpentane	2400	850000	11000	4000000
Benzene	2400	51000	7600	160000
1,2-Dichloroethane	2400	Not Detected	9600	Not Detected
Heptane	2400	220000	9800	910000
Trichloroethene	2400	Not Detected	13000	Not Detected
1,2-Dichloropropane	2400	Not Detected	11000	Not Detected
1,4-Dioxane	9500	Not Detected	34000	Not Detected
Bromodichloromethane	2400	Not Detected	16000	Not Detected
cis-1,3-Dichloropropene	2400	Not Detected	11000	Not Detected
4-Methyl-2-pentanone	2400	Not Detected	9700	Not Detected
Toluene	2400	Not Detected	9000	Not Detected
trans-1,3-Dichloropropene	2400	Not Detected	11000	Not Detected



Client Sample ID: VMP-5-31

Lab ID#: 0911152A-08A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112020	Date of Collection:	11/6/09 11:04:00 AM
Dil. Factor:	476	Date of Analysis:	11/20/09 07:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	2400	Not Detected	13000	Not Detected
Tetrachloroethene	2400	Not Detected	16000	Not Detected
2-Hexanone	9500	Not Detected	39000	Not Detected
Dibromochloromethane	2400	Not Detected	20000	Not Detected
1,2-Dibromoethane (EDB)	2400	Not Detected	18000	Not Detected
Chlorobenzene	2400	Not Detected	11000	Not Detected
Ethyl Benzene	2400	Not Detected	10000	Not Detected
m,p-Xylene	2400	Not Detected	10000	Not Detected
o-Xylene	2400	Not Detected	10000	Not Detected
Styrene	2400	Not Detected	10000	Not Detected
Bromoform	2400	Not Detected	25000	Not Detected
Cumene	2400	Not Detected	12000	Not Detected
1,1,2,2-Tetrachloroethane	2400	Not Detected	16000	Not Detected
Propylbenzene	2400	Not Detected	12000	Not Detected
4-Ethyltoluene	2400	Not Detected	12000	Not Detected
1,3,5-Trimethylbenzene	2400	Not Detected	12000	Not Detected
1,2,4-Trimethylbenzene	2400	Not Detected	12000	Not Detected
1,3-Dichlorobenzene	2400	Not Detected	14000	Not Detected
1,4-Dichlorobenzene	2400	Not Detected	14000	Not Detected
alpha-Chlorotoluene	2400	Not Detected	12000	Not Detected
1,2-Dichlorobenzene	2400	Not Detected	14000	Not Detected
1,2,4-Trichlorobenzene	9500	Not Detected	71000	Not Detected
Hexachlorobutadiene	9500	Not Detected	100000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130



Client Sample ID: VMP-5-40

Lab ID#: 0911152A-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112021	Date of Collection:	11/6/09 12:09:00 PM
Dil. Factor:	656	Date of Analysis:	11/20/09 08:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3300	Not Detected	16000	Not Detected
Freon 114	3300	Not Detected	23000	Not Detected
Chloromethane	13000	Not Detected	27000	Not Detected
Vinyl Chloride	3300	Not Detected	8400	Not Detected
1,3-Butadiene	3300	Not Detected	7200	Not Detected
Bromomethane	3300	Not Detected	13000	Not Detected
Chloroethane	3300	Not Detected	8600	Not Detected
Freon 11	3300	Not Detected	18000	Not Detected
Ethanol	13000	Not Detected	25000	Not Detected
Freon 113	3300	Not Detected	25000	Not Detected
1,1-Dichloroethene	3300	Not Detected	13000	Not Detected
Acetone	13000	Not Detected	31000	Not Detected
2-Propanol	13000	Not Detected	32000	Not Detected
Carbon Disulfide	3300	Not Detected	10000	Not Detected
3-Chloropropene	13000	Not Detected	41000	Not Detected
Methylene Chloride	3300	Not Detected	11000	Not Detected
Methyl tert-butyl ether	3300	Not Detected	12000	Not Detected
trans-1,2-Dichloroethene	3300	Not Detected	13000	Not Detected
Hexane	3300	1200000	12000	4400000
1,1-Dichloroethane	3300	Not Detected	13000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3300	Not Detected	9700	Not Detected
cis-1,2-Dichloroethene	3300	Not Detected	13000	Not Detected
Tetrahydrofuran	3300	Not Detected	9700	Not Detected
Chloroform	3300	Not Detected	16000	Not Detected
1,1,1-Trichloroethane	3300	Not Detected	18000	Not Detected
Cyclohexane	3300	390000	11000	1400000
Carbon Tetrachloride	3300	Not Detected	21000	Not Detected
2,2,4-Trimethylpentane	3300	720000	15000	3400000
Benzene	3300	54000	10000	170000
1,2-Dichloroethane	3300	Not Detected	13000	Not Detected
Heptane	3300	200000	13000	810000
Trichloroethene	3300	Not Detected	18000	Not Detected
1,2-Dichloropropane	3300	Not Detected	15000	Not Detected
1,4-Dioxane	13000	Not Detected	47000	Not Detected
Bromodichloromethane	3300	Not Detected	22000	Not Detected
cis-1,3-Dichloropropene	3300	Not Detected	15000	Not Detected
4-Methyl-2-pentanone	3300	Not Detected	13000	Not Detected
Toluene	3300	Not Detected	12000	Not Detected
trans-1,3-Dichloropropene	3300	Not Detected	15000	Not Detected

Client Sample ID: VMP-5-40

Lab ID#: 0911152A-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112021	Date of Collection:	11/6/09 12:09:00 PM
Dil. Factor:	656	Date of Analysis:	11/20/09 08:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	3300	Not Detected	18000	Not Detected
Tetrachloroethene	3300	Not Detected	22000	Not Detected
2-Hexanone	13000	Not Detected	54000	Not Detected
Dibromochloromethane	3300	Not Detected	28000	Not Detected
1,2-Dibromoethane (EDB)	3300	Not Detected	25000	Not Detected
Chlorobenzene	3300	Not Detected	15000	Not Detected
Ethyl Benzene	3300	Not Detected	14000	Not Detected
m,p-Xylene	3300	Not Detected	14000	Not Detected
o-Xylene	3300	Not Detected	14000	Not Detected
Styrene	3300	Not Detected	14000	Not Detected
Bromoform	3300	Not Detected	34000	Not Detected
Cumene	3300	Not Detected	16000	Not Detected
1,1,1,2-Tetrachloroethane	3300	Not Detected	22000	Not Detected
Propylbenzene	3300	Not Detected	16000	Not Detected
4-Ethyltoluene	3300	Not Detected	16000	Not Detected
1,3,5-Trimethylbenzene	3300	Not Detected	16000	Not Detected
1,2,4-Trimethylbenzene	3300	Not Detected	16000	Not Detected
1,3-Dichlorobenzene	3300	Not Detected	20000	Not Detected
1,4-Dichlorobenzene	3300	Not Detected	20000	Not Detected
alpha-Chlorotoluene	3300	Not Detected	17000	Not Detected
1,2-Dichlorobenzene	3300	Not Detected	20000	Not Detected
1,2,4-Trichlorobenzene	13000	Not Detected	97000	Not Detected
Hexachlorobutadiene	13000	Not Detected	140000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130



Client Sample ID: VMP-6-5

Lab ID#: 0911152A-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112023	Date of Collection:	11/6/09 1:41:00 PM
Dil. Factor:	79.3	Date of Analysis:	11/20/09 09:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	400	Not Detected	2000	Not Detected
Freon 114	400	Not Detected	2800	Not Detected
Chloromethane	1600	Not Detected	3300	Not Detected
Vinyl Chloride	400	Not Detected	1000	Not Detected
1,3-Butadiene	400	Not Detected	880	Not Detected
Bromomethane	400	Not Detected	1500	Not Detected
Chloroethane	400	Not Detected	1000	Not Detected
Freon 11	400	Not Detected	2200	Not Detected
Ethanol	1600	Not Detected	3000	Not Detected
Freon 113	400	Not Detected	3000	Not Detected
1,1-Dichloroethene	400	Not Detected	1600	Not Detected
Acetone	1600	Not Detected	3800	Not Detected
2-Propanol	1600	Not Detected	3900	Not Detected
Carbon Disulfide	400	Not Detected	1200	Not Detected
3-Chloropropene	1600	Not Detected	5000	Not Detected
Methylene Chloride	400	Not Detected	1400	Not Detected
Methyl tert-butyl ether	400	Not Detected	1400	Not Detected
trans-1,2-Dichloroethene	400	Not Detected	1600	Not Detected
Hexane	400	200000	1400	720000 - "J"
1,1-Dichloroethane	400	Not Detected	1600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	400	Not Detected	1200	Not Detected
cis-1,2-Dichloroethene	400	Not Detected	1600	Not Detected
Tetrahydrofuran	400	Not Detected	1200	Not Detected
Chloroform	400	Not Detected	1900	Not Detected
1,1,1-Trichloroethane	400	Not Detected	2200	Not Detected
Cyclohexane	400	110000	1400	380000 - "J"
Carbon Tetrachloride	400	Not Detected	2500	Not Detected
2,2,4-Trimethylpentane	400	310000	1800	1400000 - "J"
Benzene	400	1800	1300	5800 - "J"
1,2-Dichloroethane	400	Not Detected	1600	Not Detected
Heptane	400	92000	1600	380000 - "J"
Trichloroethene	400	Not Detected	2100	Not Detected
1,2-Dichloropropane	400	Not Detected	1800	Not Detected
1,4-Dioxane	1600	Not Detected	5700	Not Detected
Bromodichloromethane	400	Not Detected	2600	Not Detected
cis-1,3-Dichloropropene	400	Not Detected	1800	Not Detected
4-Methyl-2-pentanone	400	Not Detected	1600	Not Detected
Toluene	400	Not Detected	1500	Not Detected
trans-1,3-Dichloropropene	400	Not Detected	1800	Not Detected



Client Sample ID: VMP-6-5

Lab ID#: 0911152A-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112023	Date of Collection:	11/6/09 1:41:00 PM
Dil. Factor:	79.3	Date of Analysis:	11/20/09 09:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	400	Not Detected	2200	Not Detected
Tetrachloroethene	400	Not Detected	2700	Not Detected
2-Hexanone	1600	Not Detected	6500	Not Detected
Dibromochloromethane	400	Not Detected	3400	Not Detected
1,2-Dibromoethane (EDB)	400	Not Detected	3000	Not Detected
Chlorobenzene	400	Not Detected	1800	Not Detected
Ethyl Benzene	400	1500	1700	6500 — "J"
m,p-Xylene	400	720	1700	3100 — "J"
o-Xylene	400	Not Detected	1700	Not Detected
Styrene	400	Not Detected	1700	Not Detected
Bromoform	400	Not Detected	4100	Not Detected
Cumene	400	540	1900	2700 — "J"
1,1,1,2-Tetrachloroethane	400	Not Detected	2700	Not Detected
Propylbenzene	400	1200	1900	5800 — "J"
4-Ethyltoluene	400	Not Detected	1900	Not Detected
1,3,5-Trimethylbenzene	400	Not Detected	1900	Not Detected
1,2,4-Trimethylbenzene	400	Not Detected	1900	Not Detected
1,3-Dichlorobenzene	400	Not Detected	2400	Not Detected
1,4-Dichlorobenzene	400	Not Detected	2400	Not Detected
alpha-Chlorotoluene	400	Not Detected	2000	Not Detected
1,2-Dichlorobenzene	400	Not Detected	2400	Not Detected
1,2,4-Trichlorobenzene	1600	Not Detected	12000	Not Detected
Hexachlorobutadiene	1600	Not Detected	17000	Not Detected

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	133 Q	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: VMP-6-10

Lab ID#: 0911152A-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112024	Date of Collection:	11/6/09 2:45:00 PM
Dil. Factor:	86.0	Date of Analysis:	11/20/09 09:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	430	Not Detected	2100	Not Detected
Freon 114	430	Not Detected	3000	Not Detected
Chloromethane	1700	Not Detected	3600	Not Detected
Vinyl Chloride	430	Not Detected	1100	Not Detected
1,3-Butadiene	430	Not Detected	950	Not Detected
Bromomethane	430	Not Detected	1700	Not Detected
Chloroethane	430	Not Detected	1100	Not Detected
Freon 11	430	Not Detected	2400	Not Detected
Ethanol	1700	Not Detected	3200	Not Detected
Freon 113	430	Not Detected	3300	Not Detected
1,1-Dichloroethene	430	Not Detected	1700	Not Detected
Acetone	1700	Not Detected	4100	Not Detected
2-Propanol	1700	Not Detected	4200	Not Detected
Carbon Disulfide	430	Not Detected	1300	Not Detected
3-Chloropropene	1700	Not Detected	5400	Not Detected
Methylene Chloride	430	Not Detected	1500	Not Detected
Methyl tert-butyl ether	430	Not Detected	1600	Not Detected
trans-1,2-Dichloroethene	430	Not Detected	1700	Not Detected
Hexane	430	250000	1500	900000
1,1-Dichloroethane	430	Not Detected	1700	Not Detected
2-Butanone (Methyl Ethyl Ketone)	430	Not Detected	1300	Not Detected
cis-1,2-Dichloroethene	430	Not Detected	1700	Not Detected
Tetrahydrofuran	430	Not Detected	1300	Not Detected
Chloroform	430	Not Detected	2100	Not Detected
1,1,1-Trichloroethane	430	Not Detected	2300	Not Detected
Cyclohexane	430	140000	1500	470000
Carbon Tetrachloride	430	Not Detected	2700	Not Detected
2,2,4-Trimethylpentane	430	380000	2000	1800000
Benzene	430	2000	1400	6400
1,2-Dichloroethane	430	Not Detected	1700	Not Detected
Heptane	430	120000	1800	480000
Trichloroethene	430	Not Detected	2300	Not Detected
1,2-Dichloropropane	430	Not Detected	2000	Not Detected
1,4-Dioxane	1700	Not Detected	6200	Not Detected
Bromodichloromethane	430	Not Detected	2900	Not Detected
cis-1,3-Dichloropropene	430	Not Detected	2000	Not Detected
4-Methyl-2-pentanone	430	Not Detected	1800	Not Detected
Toluene	430	Not Detected	1600	Not Detected
trans-1,3-Dichloropropene	430	Not Detected	2000	Not Detected



Client Sample ID: VMP-6-10

Lab ID#: 0911152A-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112024	Date of Collection:	11/6/09 2:45:00 PM
Dil. Factor:	86.0	Date of Analysis:	11/20/09 09:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	430	Not Detected	2300	Not Detected
Tetrachloroethene	430	Not Detected	2900	Not Detected
2-Hexanone	1700	Not Detected	7000	Not Detected
Dibromochloromethane	430	Not Detected	3700	Not Detected
1,2-Dibromoethane (EDB)	430	Not Detected	3300	Not Detected
Chlorobenzene	430	Not Detected	2000	Not Detected
Ethyl Benzene	430	1200	1900	5200
m,p-Xylene	430	780	1900	3400
o-Xylene	430	Not Detected	1900	Not Detected
Styrene	430	Not Detected	1800	Not Detected
Bromoform	430	Not Detected	4400	Not Detected
Cumene	430	730	2100	3600
1,1,2,2-Tetrachloroethane	430	Not Detected	3000	Not Detected
Propylbenzene	430	1600	2100	8000
4-Ethyltoluene	430	Not Detected	2100	Not Detected
1,3,5-Trimethylbenzene	430	Not Detected	2100	Not Detected
1,2,4-Trimethylbenzene	430	Not Detected	2100	Not Detected
1,3-Dichlorobenzene	430	Not Detected	2600	Not Detected
1,4-Dichlorobenzene	430	Not Detected	2600	Not Detected
alpha-Chlorotoluene	430	Not Detected	2200	Not Detected
1,2-Dichlorobenzene	430	Not Detected	2600	Not Detected
1,2,4-Trichlorobenzene	1700	Not Detected	13000	Not Detected
Hexachlorobutadiene	1700	Not Detected	18000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	130	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: Lab Blank

Lab ID#: 0911152A-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 08:57 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 0911152A-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 08:57 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: Lab Blank

Lab ID#: 0911152A-12B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112309a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/23/09 11:10 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 0911152A-12B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112309a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/23/09 11:10 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: CCV

Lab ID#: 0911152A-13A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 07:52 AM

Compound	%Recovery
Freon 12	106
Freon 114	112
Chloromethane	113
Vinyl Chloride	107
1,3-Butadiene	107
Bromomethane	108
Chloroethane	110
Freon 11	107
Ethanol	100
Freon 113	113
1,1-Dichloroethene	106
Acetone	104
2-Propanol	101
Carbon Disulfide	106
3-Chloropropene	107
Methylene Chloride	103
Methyl tert-butyl ether	130
trans-1,2-Dichloroethene	108
Hexane	105
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	102
Tetrahydrofuran	103
Chloroform	105
1,1,1-Trichloroethane	105
Cyclohexane	105
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	106
Benzene	109
1,2-Dichloroethane	105
Heptane	110
Trichloroethene	108
1,2-Dichloropropane	107
1,4-Dioxane	109
Bromodichloromethane	108
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	107
Toluene	111
trans-1,3-Dichloropropene	103



Client Sample ID: CCV

Lab ID#: 0911152A-13A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 07:52 AM

Compound	%Recovery
1,1,2-Trichloroethane	108
Tetrachloroethene	114
2-Hexanone	102
Dibromochloromethane	112
1,2-Dibromoethane (EDB)	106
Chlorobenzene	108
Ethyl Benzene	108
m,p-Xylene	107
o-Xylene	109
Styrene	111
Bromoform	119
Cumene	104
1,1,2,2-Tetrachloroethane	106
Propylbenzene	101
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	109
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: CCV

Lab ID#: 0911152A-13B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/23/09 08:27 AM

Compound	%Recovery
Freon 12	106
Freon 114	108
Chloromethane	109
Vinyl Chloride	107
1,3-Butadiene	105
Bromomethane	108
Chloroethane	111
Freon 11	106
Ethanol	102
Freon 113	107
1,1-Dichloroethene	107
Acetone	109
2-Propanol	104
Carbon Disulfide	104
3-Chloropropene	109
Methylene Chloride	104
Methyl tert-butyl ether	129
trans-1,2-Dichloroethene	106
Hexane	107
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	104
Tetrahydrofuran	103
Chloroform	104
1,1,1-Trichloroethane	105
Cyclohexane	106
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	109
Benzene	107
1,2-Dichloroethane	105
Heptane	110
Trichloroethene	104
1,2-Dichloropropane	106
1,4-Dioxane	103
Bromodichloromethane	104
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	106
Toluene	109
trans-1,3-Dichloropropene	104



Client Sample ID: CCV

Lab ID#: 0911152A-13B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/23/09 08:27 AM

Compound	%Recovery
1,1,2-Trichloroethane	107
Tetrachloroethene	109
2-Hexanone	101
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	104
Chlorobenzene	105
Ethyl Benzene	105
m,p-Xylene	106
o-Xylene	106
Styrene	106
Bromoform	112
Cumene	105
1,1,1,2-Tetrachloroethane	102
Propylbenzene	104
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: LCS

Lab ID#: 0911152A-14A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 08:20 AM

Compound	%Recovery
Freon 12	84
Freon 114	92
Chloromethane	93
Vinyl Chloride	86
1,3-Butadiene	86
Bromomethane	83
Chloroethane	85
Freon 11	86
Ethanol	131 Q
Freon 113	82
1,1-Dichloroethene	75
Acetone	81
2-Propanol	80
Carbon Disulfide	83
3-Chloropropene	83
Methylene Chloride	76
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	87
Hexane	84
1,1-Dichloroethane	81
2-Butanone (Methyl Ethyl Ketone)	82
cis-1,2-Dichloroethene	80
Tetrahydrofuran	83
Chloroform	82
1,1,1-Trichloroethane	82
Cyclohexane	85
Carbon Tetrachloride	84
2,2,4-Trimethylpentane	86
Benzene	86
1,2-Dichloroethane	82
Heptane	86
Trichloroethene	85
1,2-Dichloropropane	84
1,4-Dioxane	84
Bromodichloromethane	83
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	84
Toluene	84
trans-1,3-Dichloropropene	84



Client Sample ID: LCS

Lab ID#: 0911152A-14A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/20/09 08:20 AM

Compound	%Recovery
1,1,2-Trichloroethane	88
Tetrachloroethene	93
2-Hexanone	84
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	90
Chlorobenzene	88
Ethyl Benzene	90
m,p-Xylene	89
o-Xylene	88
Styrene	88
Bromoform	94
Cumene	84
1,1,2,2-Tetrachloroethane	88
Propylbenzene	82
4-Ethyltoluene	84
1,3,5-Trimethylbenzene	83
1,2,4-Trimethylbenzene	88
1,3-Dichlorobenzene	86
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	82
1,2-Dichlorobenzene	87
1,2,4-Trichlorobenzene	78
Hexachlorobutadiene	80

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: LCS

Lab ID#: 0911152A-14B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112308	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/23/09 10:47 AM

Compound	%Recovery
Freon 12	85
Freon 114	87
Chloromethane	87
Vinyl Chloride	85
1,3-Butadiene	86
Bromomethane	84
Chloroethane	87
Freon 11	85
Ethanol	132
Freon 113	77
1,1-Dichloroethene	77
Acetone	82
2-Propanol	81
Carbon Disulfide	84
3-Chloropropene	83
Methylene Chloride	76
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	84
Hexane	84
1,1-Dichloroethane	81
2-Butanone (Methyl Ethyl Ketone)	82
cis-1,2-Dichloroethene	80
Tetrahydrofuran	84
Chloroform	80
1,1,1-Trichloroethane	82
Cyclohexane	84
Carbon Tetrachloride	83
2,2,4-Trimethylpentane	86
Benzene	84
1,2-Dichloroethane	82
Heptane	86
Trichloroethene	83
1,2-Dichloropropane	84
1,4-Dioxane	84
Bromodichloromethane	82
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	84
Toluene	82
trans-1,3-Dichloropropene	84

Client Sample ID: LCS

Lab ID#: 0911152A-14B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112308	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/23/09 10:47 AM

Compound	%Recovery
1,1,2-Trichloroethane	86
Tetrachloroethene	88
2-Hexanone	84
Dibromochloromethane	86
1,2-Dibromoethane (EDB)	86
Chlorobenzene	84
Ethyl Benzene	86
m,p-Xylene	86
o-Xylene	84
Styrene	87
Bromoform	89
Cumene	81
1,1,2,2-Tetrachloroethane	86
Propylbenzene	81
4-Ethyltoluene	82
1,3,5-Trimethylbenzene	81
1,2,4-Trimethylbenzene	86
1,3-Dichlorobenzene	83
1,4-Dichlorobenzene	80
alpha-Chlorotoluene	81
1,2-Dichlorobenzene	81
1,2,4-Trichlorobenzene	67 Q
Hexachlorobutadiene	70

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

**180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020**

Page 1 of 2

Project Manager Ashley Scott (Air Toxics) / Self Admin (UPS)
 Collected by: (Print and Sign) Michael Miller Email thomas.miller@airtoxics.com
 Company UPS Comparton Suite 300 State MO Zip 63102
 Address: 1414 S. Plaza Dr. City St. Louis
 Phone (314) 4129-0100 Fax (314) 4129-0162

Project Info:
 P.O. # UPS
 Project # 2-156275-00005
 Project Name Reservoir, St. Louis, MO
 Turn Around Time: Normal Rush
 Pressurized by: _____ Date: _____
 Pressurization Gas: N₂ He _____
specify

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final (psf)
<u>DIA</u>	<u>VMP-4-5</u>	<u>000002710</u>	<u>11/05/09</u>	<u>0900/0935</u>	<u>Medial</u> <u>10-15, ASTM D-1946, plus the</u>	<u>-30</u>	<u>-8.5</u>
<u>O2A</u>	<u>VMP-4-12</u>	<u>000005825</u>	<u>11/05/09</u>	<u>1028/1058</u>		<u>-30</u>	<u>-7.0</u>
<u>O3A</u>	<u>VMP-4-23.5</u>	<u>000001999</u>	<u>11/05/09</u>	<u>1142/1208</u>		<u>-30</u>	<u>-4.0</u>
<u>O4A</u>	<u>VMP-4-39</u>	<u>000005173</u>	<u>11/05/09</u>	<u>1246/1303</u>		<u>-30</u>	<u>-6.0</u>
<u>O5A</u>	<u>VMP-5-5</u>	<u>000001937</u>	<u>11/05/09</u>	<u>1449/1511</u>		<u>-30</u>	<u>-5.0</u>

Notes: 14-cans used w/s tracer compound

Relinquished by: (signature) [Signature] Date/Time 11/06/09 1700
 Received by: (signature) Felix Date/Time _____
 Relinquished by: (signature) [Signature] Date/Time 11/7/09 900
 Received by: (signature) [Signature] Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Lab Use Only

Shipper Name Felix Air Bill # _____ Temp (°C) not Condition good Custody Seats Intact? Yes No None
 Work Order # 0911152



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 2 of 2

Project Manager Arden Scott (Air Toxics) / Scott Adams (URS)
 Collected by: (Print and Sign) Michael Miller Email Arden.Scott@airtoxics.com
 Company URS Corporation
 Address 101 Myrtle St. #300 City St. Louis State MO Zip 63102
 Phone (314) 429-0100 Fax (314) 429-0462

Project Info:
 P.O. # UPS
 Project # 21562175.00005
 Project Name Portway, IL / Dissolved Phase

Turn Around Time:
 Normal
 Rush
 specify _____

Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Receipt Final (psi)
06A	VMP-5-12.5	000005821	11/06/09	0926/0926	Substrates SP-15, ASPM D-1446 plus HC	-30	-8.5	
07A	VMP-5-12.5-D	000001487	11/06/09	0926/0946		-30	-5.0	
08A	VMP-5-31	000002017	11/06/09	1024/1104		-30	-5.0	
09A	VMP-5-40	000003276	11/06/09	1134/1209		-30	-11	
10A	VMP-6-5	000003245	11/06/09	1311/1341		-30	-5.0	
11A	VMP-6-10	000001523	11/06/09	1415/1445		-30	-6.0	

Relinquished by: (signature) [Signature] Date/Time 11/06/09 1700
Received by: (signature) Feder Date/Time _____
Relinquished by: (signature) [Signature] Date/Time 11/27/09 0900
Received by: (signature) [Signature] Date/Time _____

Notes:
Helium used as tracer compound

Shipper Name: Fedex Air Bill #: _____ Temp (°C): MA Condition: good Custody Seals Intact?: Yes No None
 Work Order #: 0911158

Roxana Data Review

Laboratory SDG: 0911152B

Reviewer: Tony Sedlacek

Date Reviewed: 1/9/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-4-5	VMP-4-12
VMP-4-23.5	VMP-4-39
VMP-5-5	VMP-5-12.5
VMP-5-12.5-D	VMP-5-31
VMP-5-40	VMP-6-5
VMP-6-10	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative and cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Not applicable; samples were analyzed for Methane and fixed gases in air and surrogates are not required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No, MS/MSD samples are not collected for Method ASTM D-1946 since spiking material is unable to be added to the summa canister.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

Yes, sample VMP-4-5 was duplicated and analyzed for methane and fixed gases in air.

Were laboratory duplicate sample RPDs within criteria?

Yes

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-5-12.5	VMP-5-12.5-D

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

11/20/2009
Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana, IL Dissolved Phase
Project #: URS 21562175.00005
Workorder #: 0911152B

Dear Mr. Mike Miller

The following report includes the data for the above referenced project for sample(s) received on 11/7/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 0911152B

Work Order Summary

CLIENT: Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-566-3073

P.O. #

FAX:

PROJECT # URS 21562175.00005 Roxana, IL

DATE RECEIVED: 11/07/2009

CONTACT: Dissolved Phase
Ausha Scott

DATE COMPLETED: 11/20/2009

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-4-5	Modified ASTM D-1946	6.0 "Hg	15 psi
01AA	VMP-4-5 Lab Duplicate	Modified ASTM D-1946	6.0 "Hg	15 psi
02A	VMP-4-12	Modified ASTM D-1946	6.0 "Hg	15 psi
03A	VMP-4-23.5	Modified ASTM D-1946	4.0 "Hg	15 psi
04A	VMP-4-39	Modified ASTM D-1946	4.5 "Hg	15 psi
05A	VMP-5-5	Modified ASTM D-1946	3.0 "Hg	15 psi
06A	VMP-5-12.5	Modified ASTM D-1946	6.5 "Hg	15 psi
07A	VMP-5-12.5-D	Modified ASTM D-1946	4.0 "Hg	15 psi
08A	VMP-5-31	Modified ASTM D-1946	4.5 "Hg	15 psi
09A	VMP-5-40	Modified ASTM D-1946	11.5 "Hg	15 psi
10A	VMP-6-5	Modified ASTM D-1946	4.5 "Hg	15 psi
11A	VMP-6-10	Modified ASTM D-1946	6.5 "Hg	15 psi
12A	Lab Blank	Modified ASTM D-1946	NA	NA
12B	Lab Blank	Modified ASTM D-1946	NA	NA
13A	LCS	Modified ASTM D-1946	NA	NA

CERTIFIED BY: *Sandra D. Furrer*

DATE: 11/20/09

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 0911152B**

Eleven 1 Liter Summa Canister samples were received on November 07, 2009. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 X$'s the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit.
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

Client Sample ID: VMP-4-5

Lab ID#: 0911152B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	14
Nitrogen	0.25	51
Methane	0.00025	0.029
Carbon Dioxide	0.025	0.69
Helium	0.13	34

Client Sample ID: VMP-4-5 Lab Duplicate

Lab ID#: 0911152B-01AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	13
Nitrogen	0.25	52
Methane	0.00025	0.029
Carbon Dioxide	0.025	0.67
Helium	0.13	34

Client Sample ID: VMP-4-12

Lab ID#: 0911152B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	3.8
Nitrogen	0.25	84
Methane	0.00025	2.2
Carbon Dioxide	0.025	9.6
Helium	0.13	0.26

Client Sample ID: VMP-4-23.5

Lab ID#: 0911152B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	0.75
Nitrogen	0.23	32
Methane	0.00023	46
Carbon Dioxide	0.023	6.7

**Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

Client Sample ID: VMP-4-23.5

Lab ID#: 0911152B-03A

Ethane	0.0023	0.021
--------	--------	-------

Client Sample ID: VMP-4-39

Lab ID#: 0911152B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.1
Nitrogen	0.24	34
Methane	0.00024	44
Carbon Dioxide	0.024	6.6
Ethane	0.0024	0.020

Client Sample ID: VMP-5-5

Lab ID#: 0911152B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.3
Nitrogen	0.22	81
Methane	0.00022	2.8
Carbon Dioxide	0.022	14

Client Sample ID: VMP-5-12.5

Lab ID#: 0911152B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.3
Nitrogen	0.26	78
Methane	0.00026	6.3
Carbon Dioxide	0.026	13
Ethane	0.0026	0.0040

Client Sample ID: VMP-5-12.5-D

Lab ID#: 0911152B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.6

**Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

Client Sample ID: VMP-5-12.5-D

Lab ID#: 0911152B-07A

Nitrogen	0.23	77
Methane	0.00023	6.3
Carbon Dioxide	0.023	13
Ethane	0.0023	0.0040

Client Sample ID: VMP-5-31

Lab ID#: 0911152B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.0
Nitrogen	0.24	58
Methane	0.00024	24
Carbon Dioxide	0.024	10
Ethane	0.0024	0.014

Client Sample ID: VMP-5-40

Lab ID#: 0911152B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.33	2.7
Nitrogen	0.33	60
Methane	0.00033	22
Carbon Dioxide	0.033	9.2
Ethane	0.0033	0.012

Client Sample ID: VMP-6-5

Lab ID#: 0911152B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	3.3
Nitrogen	0.24	79
Methane	0.00024	3.7
Carbon Dioxide	0.024	13

Client Sample ID: VMP-6-10

Lab ID#: 0911152B-11A

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-6-10

Lab ID#: 0911152B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	2.7
Nitrogen	0.26	78
Methane	0.00026	4.2
Carbon Dioxide	0.026	14



Client Sample ID: VMP-4-5

Lab ID#: 0911152B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111706	Date of Collection:	11/5/09 9:35:00 AM
Dil. Factor:	2.52	Date of Analysis:	11/17/09 09:35 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	14
Nitrogen	0.25	51
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	0.029
Carbon Dioxide	0.025	0.69
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	34

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-4-5 Lab Duplicate

Lab ID#: 0911152B-01AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111707	Date of Collection:	11/5/09 9:35:00 AM
Dil. Factor:	2.52	Date of Analysis:	11/17/09 10:09 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	13
Nitrogen	0.25	52
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	0.029
Carbon Dioxide	0.025	0.67
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	34

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-4-12

Lab ID#: 0911152B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111708	Date of Collection:	11/5/09 10:58:00 AM
Dil. Factor:	2.52	Date of Analysis:	11/17/09 10:40 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	3.8
Nitrogen	0.25	84
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	2.2
Carbon Dioxide	0.025	9.6
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	0.26

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-4-23.5

Lab ID#: 0911152B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111709	Date of Collection:	11/5/09 12:08:00 PM
Dil. Factor:	2.33	Date of Analysis:	11/17/09 11:05 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	0.75
Nitrogen	0.23	32
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	46
Carbon Dioxide	0.023	6.7
Ethane	0.0023	0.021
Ethene	0.0023	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-4-39

Lab ID#: 0911152B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111712	Date of Collection:	11/5/09 1:03:00 PM
Dil. Factor:	2.38	Date of Analysis:	11/17/09 12:15 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.1
Nitrogen	0.24	34
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	44
Carbon Dioxide	0.024	6.6
Ethane	0.0024	0.020
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-5-5

Lab ID#: 0911152B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111715	Date of Collection:	11/5/09 3:11:00 PM
Dil. Factor:	2.24	Date of Analysis:	11/17/09 01:31 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.3
Nitrogen	0.22	81
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	2.8
Carbon Dioxide	0.022	14
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-5-12.5

Lab ID#: 0911152B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111716	Date of Collection:	11/6/09 9:56:00 AM
Dil. Factor:	2.58	Date of Analysis:	11/17/09 01:53 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.3
Nitrogen	0.26	78
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	6.3
Carbon Dioxide	0.026	13
Ethane	0.0026	0.0040
Ethene	0.0026	Not Detected
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-5-12.5-D

Lab ID#: 0911152B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111717	Date of Collection:	11/6/09 9:46:00 AM
Dil. Factor:	2.33	Date of Analysis:	11/17/09 02:15 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.6
Nitrogen	0.23	77
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	6.3
Carbon Dioxide	0.023	13
Ethane	0.0023	0.0040
Ethene	0.0023	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-5-31

Lab ID#: 0911152B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111718	Date of Collection: 11/6/09 11:04:00 AM
Dil. Factor:	2.38	Date of Analysis: 11/17/09 02:37 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.0
Nitrogen	0.24	58
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	24
Carbon Dioxide	0.024	10
Ethane	0.0024	0.014
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-5-40

Lab ID#: 0911152B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111721	Date of Collection: 11/6/09 12:09:00 PM
Dil. Factor:	3.28	Date of Analysis: 11/17/09 04:12 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.33	2.7
Nitrogen	0.33	60
Carbon Monoxide	0.033	Not Detected
Methane	0.00033	22
Carbon Dioxide	0.033	9.2
Ethane	0.0033	0.012
Ethene	0.0033	Not Detected
Helium	0.16	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-6-5

Lab ID#: 0911152B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111724	Date of Collection: 11/6/09 1:41:00 PM
Dil. Factor:	2.38	Date of Analysis: 11/17/09 05:59 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	3.3
Nitrogen	0.24	79
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	3.7
Carbon Dioxide	0.024	13
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-6-10

Lab ID#: 0911152B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111725	Date of Collection: 11/6/09 2:45:00 PM
Dil. Factor:	2.58	Date of Analysis: 11/17/09 06:26 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	2.7
Nitrogen	0.26	78
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	4.2
Carbon Dioxide	0.026	14
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 0911152B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/17/09 08:07 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

Container Type: NA - Not Applicable



Client Sample ID: Lab Blank

Lab ID#: 0911152B-12B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111702b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/17/09 07:39 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable



Client Sample ID: LCS

Lab ID#: 0911152B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9111732	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/17/09 10:46 PM

Compound	%Recovery
Oxygen	105
Nitrogen	106
Carbon Monoxide	108
Methane	102
Carbon Dioxide	107
Ethane	101
Ethene	102
Helium	104

Container Type: NA - Not Applicable



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Ashley Scott (Air Toxics) / Scott Ashby (COPS)
 Collected by: (Print and Sign) Michael Miller Email mmiller@airtoxics.com
 Company UPS Corporation Suite 300
 Address 601 Highway 171 City St. Louis State MO Zip 63102
 Phone (314) 429-0100 Fax (314) 429-0462

Project Info:
 P.O. # UPS
 Project # 21562735-00005
 Project Name Robbery at Dispatch Room
 Turn Around Time:
 Normal
 Rush
 specify _____
 Lab-Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
<u>01A</u>	<u>VMP-4-5</u>	<u>00000 2710</u>	<u>11/05/09</u>	<u>0900/0935</u>	<u>Modified TO-15, ASTM D-1946 plus HC</u>	<u>-30</u>	<u>-8.5</u>
<u>02A</u>	<u>VMP-4-12</u>	<u>00000 5825</u>	<u>11/05/09</u>	<u>1028/1058</u>		<u>-30</u>	<u>-7.0</u>
<u>03A</u>	<u>VMP-4-23.5</u>	<u>00000 1949</u>	<u>11/05/09</u>	<u>1142/1208</u>		<u>-30</u>	<u>-4.0</u>
<u>04A</u>	<u>VMP-4-39</u>	<u>00000 5173</u>	<u>11/05/09</u>	<u>1246/1303</u>		<u>-30</u>	<u>-6.0</u>
<u>05A</u>	<u>VMP-5-5</u>	<u>00000 1937</u>	<u>11/05/09</u>	<u>1449/1511</u>		<u>-30</u>	<u>-5.0</u>

Relinquished by: (signature) [Signature] Date/Time 11/06/09 1700
 Received by: (signature) Felder Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) [Signature] Date/Time 11/7/09 900
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Notes: Helium used as tracer compound

Lab Use Only
 Shipper Name Felder Air Bill # _____ Temp (°C) _____ Condition good Custody Seals Intact? Yes Work Order # 0911152
 Yes No None



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

CHAIN-OF-CUSTODY RECORD

Project Manager: Austin Scott (Air Toxics) / Scott Adams (URS)
 Collected by: (Print and Sign) Richard Miller
 Company: URS Corporation Email: richard.miller@urscorp.com
 Address: 101 Highway Plaza Dr W City St. Louis State: MO Zip: 63160
 Phone: (314) 429-0100 Fax: (314) 429-0462

Project Info:
 P.O. # URS
 Project # 2150275-00005
 Project Name: Poston, IL / 7550 hwy 150

Turn Around Time:
 Normal
 Rush
specify

Lab Use Only
 Pressurized by:
 Date:
 Pressurization Gas: N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Final (psf)
06A	VMP-5-12.5	0000055821	11/06/09	0924/0926	sub 200 SP-15 ASTM D-19116 plus He	-30	-8.5	
07A	VMP-5-12.5-D	0000014887	11/06/09	0926/0946		-30	-5.0	
08A	VMP-5-31	0000002017	11/06/09	1034/1104		-30	-5.0	
09A	VMP-5-40	0000003274	11/06/09	1139/1209		-30	-11	
10A	VMP-6-5	0000003245	11/06/09	1311/1311		-30	-5.0	
11A	VMP-6-10	0000001523	11/06/09	1415/1445		-30	-6.0	

Relinquished by: (signature) [Signature] Date/Time 11/06/09 1700
 Received by: (signature) Fedex Date/Time
 Relinquished by: (signature) [Signature] Date/Time 11/27/09 920
 Received by: (signature) [Signature] Date/Time
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Notes: Helium used as former compound

Shipper Name: Fedex Air Bill # _____ Temp (°C) MA Condition good Custody Seals Intact? Yes No None
 Work Order # 0911152

Roxana Data Review

Laboratory SDG: 0911275A

Reviewer: Tony Sedlacek

Date Reviewed: 1/11/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-6-31.5	VMP-6-39
VMP-7-5	VMP-7-13.5
VMP-7-29.5	VMP-7-38
VMP-8-5	VMP-8-9.5
VMP-8-23.5	VMP-9-38.5
VMP-9-25.5	VMP-9-25.5-D
VMP-9-11.5	VMP-9-5
VMP-10-5	VMP-10-10
VMP-10-20	VMP-10-20-D

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that VOC surrogate recoveries were outside evaluation criteria. Although not indicated in the laboratory case narrative, VOC LCS recoveries were outside evaluation criteria. Laboratory and field duplicate RPDs were outside evaluation criteria. Samples were diluted due to high levels of target analytes and sample results were qualified using professional judgment. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that there were sample ID discrepancies between the COC and samples labels for summa canisters VMP-7-13.5 and VMP-7-38. The laboratory contacted URS and was directed that the sample IDs on the summa canisters were correct. All sample ID discrepancies were resolved prior to sample analysis. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
0911275A-11A	VOCs	Ethanol	150	N/A	60-140
0911275A-11B	VOCs	1,1-Dichloroethene	68	N/A	70-130
0911275A-11B	VOCs	Methylene chloride	69	N/A	70-130
0911275A-11C	VOCs	1,2,4-Trichlorobenzene	63	N/A	70-130

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
VMP-7-5	VOCs	Ethanol	J
VMP-8-5	VOCs	Ethanol	J
VMP-8-9.5	VOCs	Ethanol	J
VMP-8-23.5	VOCs	Ethanol	J
VMP-10-5	VOCs	Ethanol	J
VMP-10-10	VOCs	Ethanol	J
VMP-10-20	VOCs	Ethanol	J
VMP-10-20-D	VOCs	Ethanol	J
VMP-6-31.5	VOCs	1,1-Dichloroethene	UJ
VMP-6-31.5	VOCs	Methylene chloride	UJ
VMP-6-39	VOCs	1,1-Dichloroethene	UJ
VMP-6-39	VOCs	Methylene chloride	UJ
VMP-7-29.5	VOCs	1,2,4-Trichlorobenzene	UJ
VMP-7-38	VOCs	1,2,4-Trichlorobenzene	UJ
VMP-9-38.5	VOCs	1,2,4-Trichlorobenzene	UJ

Field ID	Parameter	Analyte	Qualification
VMP-9-25.5	VOCs	1,2,4-Trichlorobenzene	UJ
VMP-9-25.5-D	VOCs	1,2,4-Trichlorobenzene	UJ

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Field ID	Parameter	Surrogate	Recovery	Criteria
VMP-7-29.5	VOCs	1,2-Dichloroethane-d ₄	178	70-130
VMP-7-38	VOCs	1,2-Dichloroethane-d ₄	180	70-130
VMP-9-38.5	VOCs	1,2-Dichloroethane-d ₄	132	70-130
VMP-9-25.5	VOCs	1,2-Dichloroethane-d ₄	135	70-130
VMP-9-25.5-D	VOCs	1,2-Dichloroethane-d ₄	136	70-130

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
VMP-7-29.5	VOCs	Hexane	J
VMP-7-29.5	VOCs	Cyclohexane	J
VMP-7-29.5	VOCs	Benzene	J
VMP-7-29.5	VOCs	Heptane	J
VMP-7-29.5	VOCs	Toluene	J
VMP-7-29.5	VOCs	<i>m,p</i> -Xylene	J
VMP-7-29.5	VOCs	Cumene	J
VMP-7-29.5	VOCs	Propylbenzene	J
VMP-7-38	VOCs	Hexane	J
VMP-7-38	VOCs	Cyclohexane	J
VMP-7-38	VOCs	Benzene	J
VMP-7-38	VOCs	Heptane	J
VMP-7-38	VOCs	Toluene	J
VMP-7-38	VOCs	<i>m,p</i> -Xylene	J
VMP-7-38	VOCs	Cumene	J
VMP-7-38	VOCs	Propylbenzene	J
VMP-9-38.5	VOCs	Hexane	J
VMP-9-38.5	VOCs	Cyclohexane	J
VMP-9-38.5	VOCs	2,2,4-Trimethylpentane	J
VMP-9-38.5	VOCs	Benzene	J
VMP-9-38.5	VOCs	Heptane	J
VMP-9-25.5	VOCs	Hexane	J
VMP-9-25.5	VOCs	Cyclohexane	J
VMP-9-25.5	VOCs	2,2,4-Trimethylpentane	J
VMP-9-25.5	VOCs	Benzene	J
VMP-9-25.5	VOCs	Heptane	J

Field ID	Parameter	Analyte	Qualification
VMP-9-25.5-D	VOCs	Hexane	J
VMP-9-25.5-D	VOCs	Cyclohexane	J
VMP-9-25.5-D	VOCs	2,2,4-Trimethylpentane	J
VMP-9-25.5-D	VOCs	Benzene	J
VMP-9-25.5-D	VOCs	Heptane	J

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No, MS/MSD samples are not collected for Method TO-15 since spiking material is unable to be added to the summa canister.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

Yes, samples VMP-7-5, VMP-9-25-D and VMP-10-10 were duplicated and analyzed for VOCs.

Were laboratory duplicate sample RPDs within criteria?

No

Field ID	Parameter	Analyte	RPD	Criteria
VMP-9-25.5-D	VOCs	Benzene	86	25%

The benzene was result for sample VMP-9-25.5-D was previously qualified due to field duplicate RPD; therefore, no additional qualification of data was required.

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-9-25.5	VMP-9-25.5-D
VMP-10-20	VMP-10-20-D

Were field duplicates within evaluation criteria?

No, benzene had an RPD (84) outside evaluation criteria (25) in sample VMP-9-25.5. The benzene result for this sample was previously qualified due to high surrogate recovery in both the parent and field duplicate samples; therefore, no additional qualification of data was required. In addition, ethanol had a greater than two times (2X) the reporting limit difference between the parent and field duplicate results in samples VMP-10-20 and VMP-10-20-D. The ethanol results for these

samples were previously qualified due to high LCS recovery; therefore, no additional qualification of data was required.

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes

Professional judgment was used to qualify the 2,2,4-Trimethylpentane results listed in the table below. These results exceeded the calibration range of the instrument and were qualified "E" by the laboratory.

Sample ID	Analyte	New RL	Qualification	Comment
VMP-7-13.5	2,2,4-Trimethylpentane	-	J	Professional Judgment
VMP-7-29.5	2,2,4-Trimethylpentane	-	J	Professional Judgment
VMP-7-38	2,2,4-Trimethylpentane	-	J	Professional Judgment

12/3/2009
Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562175.00005
Workorder #: 0911275A

Dear Mr. Mike Miller

The following report includes the data for the above referenced project for sample(s) received on 11/12/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 0911275A

Work Order Summary

CLIENT: Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-566-3073

P.O. #

FAX:

PROJECT # 21562175.00005 Roxana Dissolved

DATE RECEIVED: 11/12/2009

CONTACT: Phase
Ausha Scott

DATE COMPLETED: 12/03/2009

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-6-31.5	Modified TO-15	3.0 "Hg	15 psi
02A	VMP-6-39	Modified TO-15	3.5 "Hg	15 psi
03A	VMP-7-5	Modified TO-15	4.0 "Hg	15 psi
03AA	VMP-7-5 Lab Duplicate	Modified TO-15	4.0 "Hg	15 psi
04A	VMP-7-13.5	Modified TO-15	3.0 "Hg	15 psi
05A	VMP-7-29.5	Modified TO-15	3.5 "Hg	15 psi
06A	VMP-7-38	Modified TO-15	4.5 "Hg	15 psi
07A	VMP-8-5	Modified TO-15	4.0 "Hg	15 psi
08A	VMP-8-9.5	Modified TO-15	3.0 "Hg	15 psi
09A	VMP-8-23.5	Modified TO-15	4.5 "Hg	15 psi
10A	VMP-9-38.5	Modified TO-15	2.5 "Hg	15 psi
11A	VMP-9-25.5	Modified TO-15	2.5 "Hg	15 psi
12A	VMP-9-25.5-D	Modified TO-15	5.5 "Hg	15 psi
12AA	VMP-9-25.5-D Lab Duplicate	Modified TO-15	5.5 "Hg	15 psi
13A	VMP-9-11.5	Modified TO-15	8.0 "Hg	15 psi
14A	VMP-9-5	Modified TO-15	3.0 "Hg	15 psi
15A	VMP-10-5	Modified TO-15	2.5 "Hg	15 psi

Continued on next page

WORK ORDER #: 0911275A

Work Order Summary

CLIENT: Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-566-3073

FAX:

DATE RECEIVED: 11/12/2009

DATE COMPLETED: 12/03/2009

P.O. #

PROJECT # 21562175.00005 Roxana Dissolved

CONTACT: Phase
Ausha Scott

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
16A	VMP-10-10	Modified TO-15	3.5 "Hg	15 psi
16AA	VMP-10-10 Lab Duplicate	Modified TO-15	3.5 "Hg	15 psi
17A	VMP-10-20	Modified TO-15	3.0 "Hg	15 psi
18A	VMP-10-20-D	Modified TO-15	5.5 "Hg	15 psi
19A	Lab Blank	Modified TO-15	NA	NA
19B	Lab Blank	Modified TO-15	NA	NA
19C	Lab Blank	Modified TO-15	NA	NA
20A	CCV	Modified TO-15	NA	NA
20B	CCV	Modified TO-15	NA	NA
20C	CCV	Modified TO-15	NA	NA
21A	LCS	Modified TO-15	NA	NA
21B	LCS	Modified TO-15	NA	NA
21C	LCS	Modified TO-15	NA	NA

CERTIFIED BY: *Sinda J. Furrer*

DATE: 12/03/09

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15
URS Corporation
Workorder# 0911275A**

Eighteen 1 Liter Summa Canister samples were received on November 12, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Daily CCV	<= 30% Difference	<= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) information for sample VMP-7-13.5 and VMP-7-38 did not match the information on the canisters with regard to canister identification. The client was notified of the discrepancy and the information on the canisters were used to process and report the samples.

Analytical Notes

The recovery of surrogate 1,2-Dichloroethane-d4 in samples VMP-7-29.5, VMP-7-38, VMP-9-38.5, VMP-9-25.5, VMP-9-25.5-D and VMP-9-25.5-D Lab Duplicate was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-6-31.5

Lab ID#: 0911275A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	2800	880000	9900	3100000
Cyclohexane	2800	280000	9600	970000
2,2,4-Trimethylpentane	2800	530000	13000	2500000
Benzene	2800	8800	8900	28000
Heptane	2800	430000	11000	1800000
Ethyl Benzene	2800	40000	12000	180000
m,p-Xylene	2800	15000	12000	66000
Cumene	2800	3800	14000	18000
Propylbenzene	2800	9000	14000	44000
4-Ethyltoluene	2800	7600	14000	37000
1,2,4-Trimethylbenzene	2800	5800	14000	29000

Client Sample ID: VMP-6-39

Lab ID#: 0911275A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	3200	1200000	11000	4200000
Cyclohexane	3200	360000	11000	1200000
2,2,4-Trimethylpentane	3200	590000	15000	2800000
Benzene	3200	12000	10000	40000
Heptane	3200	590000	13000	2400000
Ethyl Benzene	3200	66000	14000	290000
m,p-Xylene	3200	35000	14000	150000
Cumene	3200	4800	16000	24000
Propylbenzene	3200	12000	16000	60000
4-Ethyltoluene	3200	17000	16000	82000
1,3,5-Trimethylbenzene	3200	5900	16000	29000
1,2,4-Trimethylbenzene	3200	16000	16000	79000

Client Sample ID: VMP-7-5

Lab ID#: 0911275A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.7	60	8.8	110
Acetone	4.7	17	11	41
2-Propanol	4.7	220	11	550

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-7-5

Lab ID#: 0911275A-03A

Hexane	1.2	30	4.1	110
Cyclohexane	1.2	12	4.0	41
2,2,4-Trimethylpentane	1.2	45	5.4	210
Benzene	1.2	4.8	3.7	15
Heptane	1.2	22	4.8	91
Toluene	1.2	1.9	4.4	7.1
Ethyl Benzene	1.2	2.7	5.0	12
m,p-Xylene	1.2	1.8	5.0	7.9

Client Sample ID: VMP-7-5 Lab Duplicate

Lab ID#: 0911275A-03AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.7	53	8.8	100
Acetone	4.7	16	11	37
2-Propanol	4.7	200	11	480
Hexane	1.2	27	4.1	94
Cyclohexane	1.2	10	4.0	36
2,2,4-Trimethylpentane	1.2	40	5.4	180
Benzene	1.2	4.3	3.7	14
Heptane	1.2	20	4.8	81
Toluene	1.2	1.7	4.4	6.4
Ethyl Benzene	1.2	2.4	5.0	11
m,p-Xylene	1.2	1.7	5.0	7.4

Client Sample ID: VMP-7-13.5

Lab ID#: 0911275A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	9.0	15	32	52
Cyclohexane	9.0	25	31	87
2,2,4-Trimethylpentane	9.0	4700 E	42	22000 E

Client Sample ID: VMP-7-29.5

Lab ID#: 0911275A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
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**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-7-29.5

Lab ID#: 0911275A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	190	120000	670	420000
Cyclohexane	190	180000	660	610000
2,2,4-Trimethylpentane	190	260000 E	890	1200000 E
Benzene	190	37000	610	120000
Heptane	190	110000	780	460000
Toluene	190	300	720	1100
m,p-Xylene	190	500	830	2200
Cumene	190	1500	940	7500
Propylbenzene	190	1300	940	6500

Client Sample ID: VMP-7-38

Lab ID#: 0911275A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	66	40000	230	140000
Cyclohexane	66	65000	230	220000
2,2,4-Trimethylpentane	66	87000 E	310	410000 E
Benzene	66	17000	210	54000
Heptane	66	42000	270	170000
Toluene	66	150	250	550
m,p-Xylene	66	240	290	1000
Cumene	66	820	320	4000
Propylbenzene	66	720	320	3500

Client Sample ID: VMP-8-5

Lab ID#: 0911275A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.7	12	8.8	23
Acetone	4.7	6.4	11	15
Hexane	1.2	4.4	4.1	16
2-Butanone (Methyl Ethyl Ketone)	1.2	1.5	3.4	4.3
Cyclohexane	1.2	2.4	4.0	8.3
2,2,4-Trimethylpentane	1.2	6.7	5.4	31
Heptane	1.2	4.0	4.8	16

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-8-9.5

Lab ID#: 0911275A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.5	16	8.4	30
Hexane	1.1	1.2	3.9	4.2
Heptane	1.1	1.1	4.6	4.6

Client Sample ID: VMP-8-23.5

Lab ID#: 0911275A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.8	12	9.0	23

Client Sample ID: VMP-9-38.5

Lab ID#: 0911275A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	550	7100	1900	25000
Cyclohexane	550	33000	1900	110000
2,2,4-Trimethylpentane	550	140000	2600	640000
Benzene	550	400000	1800	1300000
Heptane	550	1100	2200	4600

Client Sample ID: VMP-9-25.5

Lab ID#: 0911275A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	280	1900	970	6600
Cyclohexane	280	16000	950	54000
2,2,4-Trimethylpentane	280	150000	1300	710000
Benzene	280	3900	880	12000
Heptane	280	360	1100	1500

Client Sample ID: VMP-9-25.5-D

Lab ID#: 0911275A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
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**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-9-25.5-D

Lab ID#: 0911275A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	250	1700	870	5900
Cyclohexane	250	15000	850	52000
2,2,4-Trimethylpentane	250	150000	1200	680000
Benzene	250	1500	790	4900
Heptane	250	360	1000	1500

Client Sample ID: VMP-9-25.5-D Lab Duplicate

Lab ID#: 0911275A-12AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	250	1700	870	5900
Cyclohexane	250	15000	850	52000
2,2,4-Trimethylpentane	250	140000	1200	680000
Benzene	250	1500	790	4800
Heptane	250	400	1000	1700

Client Sample ID: VMP-9-11.5

Lab ID#: 0911275A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	5.5	7.3	10	14
Acetone	5.5	7.1	13	17
2-Butanone (Methyl Ethyl Ketone)	1.4	1.5	4.1	4.5
Toluene	1.4	8.4	5.2	32

Client Sample ID: VMP-9-5

Lab ID#: 0911275A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.5	9.6	8.4	18
Acetone	4.5	4.9	11	12
2-Butanone (Methyl Ethyl Ketone)	1.1	1.2	3.3	3.5

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-10-5

Lab ID#: 0911275A-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.4	94	8.3	180
Acetone	4.4	14	10	33
2-Propanol	4.4	360	11	870
2-Butanone (Methyl Ethyl Ketone)	1.1	1.1	3.2	3.2
Benzene	1.1	6.4	3.5	20
Toluene	1.1	1.2	4.1	4.6

Client Sample ID: VMP-10-10

Lab ID#: 0911275A-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.6	24	8.6	46

Client Sample ID: VMP-10-10 Lab Duplicate

Lab ID#: 0911275A-16AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.6	20	8.6	39

Client Sample ID: VMP-10-20

Lab ID#: 0911275A-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.5	19	8.4	36
Acetone	4.5	6.0	11	14
Hexane	1.1	1.9	3.9	6.8
Heptane	1.1	1.2	4.6	4.9
Toluene	1.1	1.4	4.2	5.2

Client Sample ID: VMP-10-20-D

Lab ID#: 0911275A-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.9	110	9.3	220

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-10-20-D

Lab ID#: 0911275A-18A

Acetone	4.9	11	12	26
2-Butanone (Methyl Ethyl Ketone)	1.2	2.0	3.6	5.8
Toluene	1.2	1.5	4.6	5.8



Client Sample ID: VMP-6-31.5

Lab ID#: 0911275A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112525	Date of Collection: 11/9/09 10:10:00 AM
Dil. Factor:	560	Date of Analysis: 11/25/09 07:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2800	Not Detected	14000	Not Detected
Freon 114	2800	Not Detected	20000	Not Detected
Chloromethane	11000	Not Detected	23000	Not Detected
Vinyl Chloride	2800	Not Detected	7200	Not Detected
1,3-Butadiene	2800	Not Detected	6200	Not Detected
Bromomethane	2800	Not Detected	11000	Not Detected
Chloroethane	2800	Not Detected	7400	Not Detected
Freon 11	2800	Not Detected	16000	Not Detected
Ethanol	11000	Not Detected	21000	Not Detected
Freon 113	2800	Not Detected	21000	Not Detected
1,1-Dichloroethene	2800	Not Detected	11000	Not Detected — "uJ"
Acetone	11000	Not Detected	27000	Not Detected
2-Propanol	11000	Not Detected	28000	Not Detected
Carbon Disulfide	2800	Not Detected	8700	Not Detected
3-Chloropropene	11000	Not Detected	35000	Not Detected
Methylene Chloride	2800	Not Detected	9700	Not Detected — "uJ"
Methyl tert-butyl ether	2800	Not Detected	10000	Not Detected
trans-1,2-Dichloroethene	2800	Not Detected	11000	Not Detected
Hexane	2800	880000	9900	3100000
1,1-Dichloroethane	2800	Not Detected	11000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2800	Not Detected	8200	Not Detected
cis-1,2-Dichloroethene	2800	Not Detected	11000	Not Detected
Tetrahydrofuran	2800	Not Detected	8200	Not Detected
Chloroform	2800	Not Detected	14000	Not Detected
1,1,1-Trichloroethane	2800	Not Detected	15000	Not Detected
Cyclohexane	2800	280000	9600	970000
Carbon Tetrachloride	2800	Not Detected	18000	Not Detected
2,2,4-Trimethylpentane	2800	530000	13000	2500000
Benzene	2800	8800	8900	28000
1,2-Dichloroethane	2800	Not Detected	11000	Not Detected
Heptane	2800	430000	11000	1800000
Trichloroethene	2800	Not Detected	15000	Not Detected
1,2-Dichloropropane	2800	Not Detected	13000	Not Detected
1,4-Dioxane	11000	Not Detected	40000	Not Detected
Bromodichloromethane	2800	Not Detected	19000	Not Detected
cis-1,3-Dichloropropene	2800	Not Detected	13000	Not Detected
4-Methyl-2-pentanone	2800	Not Detected	11000	Not Detected
Toluene	2800	Not Detected	10000	Not Detected
trans-1,3-Dichloropropene	2800	Not Detected	13000	Not Detected

Client Sample ID: VMP-6-31.5

Lab ID#: 0911275A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112525	Date of Collection: 11/9/09 10:10:00 AM
Dil. Factor:	560	Date of Analysis: 11/25/09 07:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	2800	Not Detected	15000	Not Detected
Tetrachloroethene	2800	Not Detected	19000	Not Detected
2-Hexanone	11000	Not Detected	46000	Not Detected
Dibromochloromethane	2800	Not Detected	24000	Not Detected
1,2-Dibromoethane (EDB)	2800	Not Detected	22000	Not Detected
Chlorobenzene	2800	Not Detected	13000	Not Detected
Ethyl Benzene	2800	40000	12000	180000
m,p-Xylene	2800	15000	12000	66000
o-Xylene	2800	Not Detected	12000	Not Detected
Styrene	2800	Not Detected	12000	Not Detected
Bromoform	2800	Not Detected	29000	Not Detected
Cumene	2800	3800	14000	18000
1,1,2,2-Tetrachloroethane	2800	Not Detected	19000	Not Detected
Propylbenzene	2800	9000	14000	44000
4-Ethyltoluene	2800	7600	14000	37000
1,3,5-Trimethylbenzene	2800	Not Detected	14000	Not Detected
1,2,4-Trimethylbenzene	2800	5800	14000	29000
1,3-Dichlorobenzene	2800	Not Detected	17000	Not Detected
1,4-Dichlorobenzene	2800	Not Detected	17000	Not Detected
alpha-Chlorotoluene	2800	Not Detected	14000	Not Detected
1,2-Dichlorobenzene	2800	Not Detected	17000	Not Detected
1,2,4-Trichlorobenzene	11000	Not Detected	83000	Not Detected
Hexachlorobutadiene	11000	Not Detected	120000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	106	70-130



Client Sample ID: VMP-6-39

Lab ID#: 0911275A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112526	Date of Collection:	11/9/09 11:02:00 AM
Dil. Factor:	636	Date of Analysis:	11/25/09 07:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3200	Not Detected	16000	Not Detected
Freon 114	3200	Not Detected	22000	Not Detected
Chloromethane	13000	Not Detected	26000	Not Detected
Vinyl Chloride	3200	Not Detected	8100	Not Detected
1,3-Butadiene	3200	Not Detected	7000	Not Detected
Bromomethane	3200	Not Detected	12000	Not Detected
Chloroethane	3200	Not Detected	8400	Not Detected
Freon 11	3200	Not Detected	18000	Not Detected
Ethanol	13000	Not Detected	24000	Not Detected
Freon 113	3200	Not Detected	24000	Not Detected
1,1-Dichloroethene	3200	Not Detected	13000	Not Detected
Acetone	13000	Not Detected	30000	Not Detected
2-Propanol	13000	Not Detected	31000	Not Detected
Carbon Disulfide	3200	Not Detected	9900	Not Detected
3-Chloropropene	13000	Not Detected	40000	Not Detected
Methylene Chloride	3200	Not Detected	11000	Not Detected
Methyl tert-butyl ether	3200	Not Detected	11000	Not Detected
trans-1,2-Dichloroethene	3200	Not Detected	13000	Not Detected
Hexane	3200	1200000	11000	4200000
1,1-Dichloroethane	3200	Not Detected	13000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3200	Not Detected	9400	Not Detected
cis-1,2-Dichloroethene	3200	Not Detected	13000	Not Detected
Tetrahydrofuran	3200	Not Detected	9400	Not Detected
Chloroform	3200	Not Detected	16000	Not Detected
1,1,1-Trichloroethane	3200	Not Detected	17000	Not Detected
Cyclohexane	3200	360000	11000	1200000
Carbon Tetrachloride	3200	Not Detected	20000	Not Detected
2,2,4-Trimethylpentane	3200	590000	15000	2800000
Benzene	3200	12000	10000	40000
1,2-Dichloroethane	3200	Not Detected	13000	Not Detected
Heptane	3200	590000	13000	2400000
Trichloroethene	3200	Not Detected	17000	Not Detected
1,2-Dichloropropane	3200	Not Detected	15000	Not Detected
1,4-Dioxane	13000	Not Detected	46000	Not Detected
Bromodichloromethane	3200	Not Detected	21000	Not Detected
cis-1,3-Dichloropropene	3200	Not Detected	14000	Not Detected
4-Methyl-2-pentanone	3200	Not Detected	13000	Not Detected
Toluene	3200	Not Detected	12000	Not Detected
trans-1,3-Dichloropropene	3200	Not Detected	14000	Not Detected

— "uJ"
— "uJ"

Client Sample ID: VMP-6-39

Lab ID#: 0911275A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112526	Date of Collection: 11/9/09 11:02:00 AM
Dil. Factor:	636	Date of Analysis: 11/25/09 07:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	3200	Not Detected	17000	Not Detected
Tetrachloroethene	3200	Not Detected	22000	Not Detected
2-Hexanone	13000	Not Detected	52000	Not Detected
Dibromochloromethane	3200	Not Detected	27000	Not Detected
1,2-Dibromoethane (EDB)	3200	Not Detected	24000	Not Detected
Chlorobenzene	3200	Not Detected	15000	Not Detected
Ethyl Benzene	3200	66000	14000	290000
m,p-Xylene	3200	35000	14000	150000
o-Xylene	3200	Not Detected	14000	Not Detected
Styrene	3200	Not Detected	14000	Not Detected
Bromoform	3200	Not Detected	33000	Not Detected
Cumene	3200	4800	16000	24000
1,1,1,2-Tetrachloroethane	3200	Not Detected	22000	Not Detected
Propylbenzene	3200	12000	16000	60000
4-Ethyltoluene	3200	17000	16000	82000
1,3,5-Trimethylbenzene	3200	5900	16000	29000
1,2,4-Trimethylbenzene	3200	16000	16000	79000
1,3-Dichlorobenzene	3200	Not Detected	19000	Not Detected
1,4-Dichlorobenzene	3200	Not Detected	19000	Not Detected
alpha-Chlorotoluene	3200	Not Detected	16000	Not Detected
1,2-Dichlorobenzene	3200	Not Detected	19000	Not Detected
1,2,4-Trichlorobenzene	13000	Not Detected	94000	Not Detected
Hexachlorobutadiene	13000	Not Detected	140000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: VMP-7-5

Lab ID#: 0911275A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112415	Date of Collection: 11/9/09 12:15:00 PM
Dil. Factor:	2.33	Date of Analysis: 11/25/09 07:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	4.7	Not Detected	9.6	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	60	8.8	110 — "J"
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.7	17	11	41
2-Propanol	4.7	220	11	550
Carbon Disulfide	1.2	Not Detected	3.6	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	1.2	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	30	4.1	110
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	12	4.0	41
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	45	5.4	210
Benzene	1.2	4.8	3.7	15
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	22	4.8	91
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	1.9	4.4	7.1
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected



Client Sample ID: VMP-7-5

Lab ID#: 0911275A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112415	Date of Collection: 11/9/09 12:15:00 PM
Dil. Factor:	2.33	Date of Analysis: 11/25/09 07:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	2.7	5.0	12
m,p-Xylene	1.2	1.8	5.0	7.9
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	106	70-130



Client Sample ID: VMP-7-5 Lab Duplicate

Lab ID#: 0911275A-03AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112416	Date of Collection:	11/9/09 12:15:00 PM
Dil. Factor:	2.33	Date of Analysis:	11/25/09 11:49 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	4.7	Not Detected	9.6	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	53	8.8	100
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.7	16	11	37
2-Propanol	4.7	200	11	480
Carbon Disulfide	1.2	Not Detected	3.6	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	1.2	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	27	4.1	94
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	10	4.0	36
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	40	5.4	180
Benzene	1.2	4.3	3.7	14
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	20	4.8	81
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	1.7	4.4	6.4
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected



Client Sample ID: VMP-7-5 Lab Duplicate

Lab ID#: 0911275A-03AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112416	Date of Collection:	11/9/09 12:15:00 PM
Dil. Factor:	2.33	Date of Analysis:	11/25/09 11:49 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	2.4	5.0	11
m,p-Xylene	1.2	1.7	5.0	7.4
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	104	70-130



Client Sample ID: VMP-7-13.5

Lab ID#: 0911275A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112418	Date of Collection:	11/9/09 1:10:00 PM
Dil. Factor:	17.9	Date of Analysis:	11/25/09 01:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	9.0	Not Detected	44	Not Detected
Freon 114	9.0	Not Detected	62	Not Detected
Chloromethane	36	Not Detected	74	Not Detected
Vinyl Chloride	9.0	Not Detected	23	Not Detected
1,3-Butadiene	9.0	Not Detected	20	Not Detected
Bromomethane	9.0	Not Detected	35	Not Detected
Chloroethane	9.0	Not Detected	24	Not Detected
Freon 11	9.0	Not Detected	50	Not Detected
Ethanol	36	Not Detected	67	Not Detected
Freon 113	9.0	Not Detected	68	Not Detected
1,1-Dichloroethene	9.0	Not Detected	35	Not Detected
Acetone	36	Not Detected	85	Not Detected
2-Propanol	36	Not Detected	88	Not Detected
Carbon Disulfide	9.0	Not Detected	28	Not Detected
3-Chloropropene	36	Not Detected	110	Not Detected
Methylene Chloride	9.0	Not Detected	31	Not Detected
Methyl tert-butyl ether	9.0	Not Detected	32	Not Detected
trans-1,2-Dichloroethene	9.0	Not Detected	35	Not Detected
Hexane	9.0	15	32	52
1,1-Dichloroethane	9.0	Not Detected	36	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9.0	Not Detected	26	Not Detected
cis-1,2-Dichloroethene	9.0	Not Detected	35	Not Detected
Tetrahydrofuran	9.0	Not Detected	26	Not Detected
Chloroform	9.0	Not Detected	44	Not Detected
1,1,1-Trichloroethane	9.0	Not Detected	49	Not Detected
Cyclohexane	9.0	25	31	87
Carbon Tetrachloride	9.0	Not Detected	56	Not Detected
2,2,4-Trimethylpentane	9.0	4700 E	42	> 22000 E - "J"
Benzene	9.0	Not Detected	28	Not Detected
1,2-Dichloroethane	9.0	Not Detected	36	Not Detected
Heptane	9.0	Not Detected	37	Not Detected
Trichloroethene	9.0	Not Detected	48	Not Detected
1,2-Dichloropropane	9.0	Not Detected	41	Not Detected
1,4-Dioxane	36	Not Detected	130	Not Detected
Bromodichloromethane	9.0	Not Detected	60	Not Detected
cis-1,3-Dichloropropene	9.0	Not Detected	41	Not Detected
4-Methyl-2-pentanone	9.0	Not Detected	37	Not Detected
Toluene	9.0	Not Detected	34	Not Detected
trans-1,3-Dichloropropene	9.0	Not Detected	41	Not Detected



Client Sample ID: VMP-7-13.5

Lab ID#: 0911275A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112418	Date of Collection: 11/9/09 1:10:00 PM
Dil. Factor:	17.9	Date of Analysis: 11/25/09 01:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	9.0	Not Detected	49	Not Detected
Tetrachloroethene	9.0	Not Detected	61	Not Detected
2-Hexanone	36	Not Detected	150	Not Detected
Dibromochloromethane	9.0	Not Detected	76	Not Detected
1,2-Dibromoethane (EDB)	9.0	Not Detected	69	Not Detected
Chlorobenzene	9.0	Not Detected	41	Not Detected
Ethyl Benzene	9.0	Not Detected	39	Not Detected
m,p-Xylene	9.0	Not Detected	39	Not Detected
o-Xylene	9.0	Not Detected	39	Not Detected
Styrene	9.0	Not Detected	38	Not Detected
Bromoform	9.0	Not Detected	92	Not Detected
Cumene	9.0	Not Detected	44	Not Detected
1,1,2,2-Tetrachloroethane	9.0	Not Detected	61	Not Detected
Propylbenzene	9.0	Not Detected	44	Not Detected
4-Ethyltoluene	9.0	Not Detected	44	Not Detected
1,3,5-Trimethylbenzene	9.0	Not Detected	44	Not Detected
1,2,4-Trimethylbenzene	9.0	Not Detected	44	Not Detected
1,3-Dichlorobenzene	9.0	Not Detected	54	Not Detected
1,4-Dichlorobenzene	9.0	Not Detected	54	Not Detected
alpha-Chlorotoluene	9.0	Not Detected	46	Not Detected
1,2-Dichlorobenzene	9.0	Not Detected	54	Not Detected
1,2,4-Trichlorobenzene	36	Not Detected	260	Not Detected
Hexachlorobutadiene	36	Not Detected	380	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	105	70-130



Client Sample ID: VMP-7-29.5

Lab ID#: 0911275A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112914	Date of Collection:	11/9/09 2:13:00 PM
Dil. Factor:	38.2	Date of Analysis:	11/29/09 05:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	190	Not Detected	940	Not Detected
Freon 114	190	Not Detected	1300	Not Detected
Chloromethane	760	Not Detected	1600	Not Detected
Vinyl Chloride	190	Not Detected	490	Not Detected
1,3-Butadiene	190	Not Detected	420	Not Detected
Bromomethane	190	Not Detected	740	Not Detected
Chloroethane	190	Not Detected	500	Not Detected
Freon 11	190	Not Detected	1100	Not Detected
Ethanol	760	Not Detected	1400	Not Detected
Freon 113	190	Not Detected	1500	Not Detected
1,1-Dichloroethene	190	Not Detected	760	Not Detected
Acetone	760	Not Detected	1800	Not Detected
2-Propanol	760	Not Detected	1900	Not Detected
Carbon Disulfide	190	Not Detected	590	Not Detected
3-Chloropropene	760	Not Detected	2400	Not Detected
Methylene Chloride	190	Not Detected	660	Not Detected
Methyl tert-butyl ether	190	Not Detected	690	Not Detected
trans-1,2-Dichloroethene	190	Not Detected	760	Not Detected
Hexane	190	120000	670	420000 - "J"
1,1-Dichloroethane	190	Not Detected	770	Not Detected
2-Butanone (Methyl Ethyl Ketone)	190	Not Detected	560	Not Detected
cis-1,2-Dichloroethene	190	Not Detected	760	Not Detected
Tetrahydrofuran	190	Not Detected	560	Not Detected
Chloroform	190	Not Detected	930	Not Detected
1,1,1-Trichloroethane	190	Not Detected	1000	Not Detected
Cyclohexane	190	180000	660	610000 - "J"
Carbon Tetrachloride	190	Not Detected	1200	Not Detected
2,2,4-Trimethylpentane	190	260000 E	890	> 1200000 E - "J"
Benzene	190	37000	610	120000 - "J"
1,2-Dichloroethane	190	Not Detected	770	Not Detected
Heptane	190	110000	780	460000 - "J"
Trichloroethene	190	Not Detected	1000	Not Detected
1,2-Dichloropropane	190	Not Detected	880	Not Detected
1,4-Dioxane	760	Not Detected	2800	Not Detected
Bromodichloromethane	190	Not Detected	1300	Not Detected
cis-1,3-Dichloropropene	190	Not Detected	870	Not Detected
4-Methyl-2-pentanone	190	Not Detected	780	Not Detected
Toluene	190	300	720	1100 - "J"
trans-1,3-Dichloropropene	190	Not Detected	870	Not Detected



Client Sample ID: VMP-7-29.5

Lab ID#: 0911275A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112914	Date of Collection:	11/9/09 2:13:00 PM
Dil. Factor:	38.2	Date of Analysis:	11/29/09 06:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	190	Not Detected	1000	Not Detected
Tetrachloroethene	190	Not Detected	1300	Not Detected
2-Hexanone	760	Not Detected	3100	Not Detected
Dibromochloromethane	190	Not Detected	1600	Not Detected
1,2-Dibromoethane (EDB)	190	Not Detected	1500	Not Detected
Chlorobenzene	190	Not Detected	880	Not Detected
Ethyl Benzene	190	Not Detected	830	Not Detected
m,p-Xylene	190	500	830	2200 - "J"
o-Xylene	190	Not Detected	830	Not Detected
Styrene	190	Not Detected	810	Not Detected
Bromoform	190	Not Detected	2000	Not Detected
Cumene	190	1500	940	7500 - "J"
1,1,2,2-Tetrachloroethane	190	Not Detected	1300	Not Detected
Propylbenzene	190	1300	940	6500 - "J"
4-Ethyltoluene	190	Not Detected	940	Not Detected
1,3,5-Trimethylbenzene	190	Not Detected	940	Not Detected
1,2,4-Trimethylbenzene	190	Not Detected	940	Not Detected
1,3-Dichlorobenzene	190	Not Detected	1100	Not Detected
1,4-Dichlorobenzene	190	Not Detected	1100	Not Detected
alpha-Chlorotoluene	190	Not Detected	990	Not Detected
1,2-Dichlorobenzene	190	Not Detected	1100	Not Detected
1,2,4-Trichlorobenzene	760	Not Detected	5700	Not Detected - "uJ"
Hexachlorobutadiene	760	Not Detected	8100	Not Detected

E = Exceeds instrument calibration range.

Q = Exceeds Quality Control limits.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	178 Q	70-130
Toluene-d8	119	70-130
4-Bromofluorobenzene	100	70-130



Client Sample ID: VMP-7-38

Lab ID#: 0911275A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112915	Date of Collection:	11/9/09 3:41:00 PM
Dil. Factor:	13.2	Date of Analysis:	11/29/09 06:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	66	Not Detected	330	Not Detected
Freon 114	66	Not Detected	460	Not Detected
Chloromethane	260	Not Detected	540	Not Detected
Vinyl Chloride	66	Not Detected	170	Not Detected
1,3-Butadiene	66	Not Detected	150	Not Detected
Bromomethane	66	Not Detected	260	Not Detected
Chloroethane	66	Not Detected	170	Not Detected
Freon 11	66	Not Detected	370	Not Detected
Ethanol	260	Not Detected	500	Not Detected
Freon 113	66	Not Detected	500	Not Detected
1,1-Dichloroethene	66	Not Detected	260	Not Detected
Acetone	260	Not Detected	630	Not Detected
2-Propanol	260	Not Detected	650	Not Detected
Carbon Disulfide	66	Not Detected	200	Not Detected
3-Chloropropene	260	Not Detected	830	Not Detected
Methylene Chloride	66	Not Detected	230	Not Detected
Methyl tert-butyl ether	66	Not Detected	240	Not Detected
trans-1,2-Dichloroethene	66	Not Detected	260	Not Detected
Hexane	66	40000	230	140000 - "J"
1,1-Dichloroethane	66	Not Detected	270	Not Detected
2-Butanone (Methyl Ethyl Ketone)	66	Not Detected	190	Not Detected
cis-1,2-Dichloroethene	66	Not Detected	260	Not Detected
Tetrahydrofuran	66	Not Detected	190	Not Detected
Chloroform	66	Not Detected	320	Not Detected
1,1,1-Trichloroethane	66	Not Detected	360	Not Detected
Cyclohexane	66	65000	230	220000 - "J"
Carbon Tetrachloride	66	Not Detected	420	Not Detected
2,2,4-Trimethylpentane	66	87000 E	310	> 410000 E - "J"
Benzene	66	17000	210	54000 - "J"
1,2-Dichloroethane	66	Not Detected	270	Not Detected
Heptane	66	42000	270	170000 - "J"
Trichloroethene	66	Not Detected	350	Not Detected
1,2-Dichloropropane	66	Not Detected	300	Not Detected
1,4-Dioxane	260	Not Detected	950	Not Detected
Bromodichloromethane	66	Not Detected	440	Not Detected
cis-1,3-Dichloropropene	66	Not Detected	300	Not Detected
4-Methyl-2-pentanone	66	Not Detected	270	Not Detected
Toluene	66	150	250	550 - "J"
trans-1,3-Dichloropropene	66	Not Detected	300	Not Detected

Client Sample ID: VMP-7-38

Lab ID#: 0911275A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112915	Date of Collection:	11/9/09 3:41:00 PM
Dil. Factor:	13.2	Date of Analysis:	11/29/09 06:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	66	Not Detected	360	Not Detected
Tetrachloroethene	66	Not Detected	450	Not Detected
2-Hexanone	260	Not Detected	1100	Not Detected
Dibromochloromethane	66	Not Detected	560	Not Detected
1,2-Dibromoethane (EDB)	66	Not Detected	510	Not Detected
Chlorobenzene	66	Not Detected	300	Not Detected
Ethyl Benzene	66	Not Detected	290	Not Detected
m,p-Xylene	66	240	290	1000 — "J"
o-Xylene	66	Not Detected	290	Not Detected
Styrene	66	Not Detected	280	Not Detected
Bromoform	66	Not Detected	680	Not Detected
Cumene	66	820	320	4000 — "J"
1,1,2,2-Tetrachloroethane	66	Not Detected	450	Not Detected
Propylbenzene	66	720	320	3500 — "J"
4-Ethyltoluene	66	Not Detected	320	Not Detected
1,3,5-Trimethylbenzene	66	Not Detected	320	Not Detected
1,2,4-Trimethylbenzene	66	Not Detected	320	Not Detected
1,3-Dichlorobenzene	66	Not Detected	400	Not Detected
1,4-Dichlorobenzene	66	Not Detected	400	Not Detected
alpha-Chlorotoluene	66	Not Detected	340	Not Detected
1,2-Dichlorobenzene	66	Not Detected	400	Not Detected
1,2,4-Trichlorobenzene	260	Not Detected	2000	Not Detected — "UJ"
Hexachlorobutadiene	260	Not Detected	2800	Not Detected

E = Exceeds instrument calibration range.

Q = Exceeds Quality Control limits.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	180 Q	70-130
Toluene-d8	124	70-130
4-Bromofluorobenzene	101	70-130



Client Sample ID: VMP-8-5

Lab ID#: 0911275A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112414	Date of Collection:	11/10/09 9:18:00 AM
Dil. Factor:	2.33	Date of Analysis:	11/24/09 10:57 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	4.7	Not Detected	9.6	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	12	8.8	23
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.7	6.4	11	15
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	1.2	Not Detected	3.6	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	1.2	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	4.4	4.1	16
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	1.5	3.4	4.3
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	2.4	4.0	8.3
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	6.7	5.4	31
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	4.0	4.8	16
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected



Client Sample ID: VMP-8-5

Lab ID#: 0911275A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112414	Date of Collection: 11/10/09 9:18:00 AM
Dil. Factor:	2.33	Date of Analysis: 11/24/09 10:57 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,1,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	105	70-130



Client Sample ID: VMP-8-9.5

Lab ID#: 0911275A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112413	Date of Collection:	11/10/09 10:11:00 A
Dil. Factor:	2.24	Date of Analysis:	11/24/09 10:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	16	8.4	30
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	Not Detected	11	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	1.2	3.9	4.2
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	1.1	4.6	4.6
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

Client Sample ID: VMP-8-9.5

Lab ID#: 0911275A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112413	Date of Collection:	11/10/09 10:11:00 A
Dil. Factor:	2.24	Date of Analysis:	11/24/09 10:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: VMP-8-23.5

Lab ID#: 0911275A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112412	Date of Collection:	11/10/09 11:11:00 A
Dil. Factor:	2.38	Date of Analysis:	11/24/09 09:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	4.8	Not Detected	9.8	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.6	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Ethanol	4.8	12	9.0	23 — "J"
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	4.8	Not Detected	11	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	1.2	Not Detected	3.7	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	1.2	Not Detected	4.1	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected

Client Sample ID: VMP-8-23.5

Lab ID#: 0911275A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112412	Date of Collection:	11/10/09 11:11:00 A
Dil. Factor:	2.38	Date of Analysis:	11/24/09 09:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
2-Hexanone	4.8	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	106	70-130



Client Sample ID: VMP-9-38.5

Lab ID#: 0911275A-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112918	Date of Collection:	11/10/09 1:54:00 PM
Dil. Factor:	110	Date of Analysis:	11/29/09 07:26 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	550	Not Detected	2700	Not Detected
Freon 114	550	Not Detected	3800	Not Detected
Chloromethane	2200	Not Detected	4500	Not Detected
Vinyl Chloride	550	Not Detected	1400	Not Detected
1,3-Butadiene	550	Not Detected	1200	Not Detected
Bromomethane	550	Not Detected	2100	Not Detected
Chloroethane	550	Not Detected	1400	Not Detected
Freon 11	550	Not Detected	3100	Not Detected
Ethanol	2200	Not Detected	4100	Not Detected
Freon 113	550	Not Detected	4200	Not Detected
1,1-Dichloroethene	550	Not Detected	2200	Not Detected
Acetone	2200	Not Detected	5200	Not Detected
2-Propanol	2200	Not Detected	5400	Not Detected
Carbon Disulfide	550	Not Detected	1700	Not Detected
3-Chloropropene	2200	Not Detected	6900	Not Detected
Methylene Chloride	550	Not Detected	1900	Not Detected
Methyl tert-butyl ether	550	Not Detected	2000	Not Detected
trans-1,2-Dichloroethene	550	Not Detected	2200	Not Detected
Hexane	550	7100	1900	25000 — "J"
1,1-Dichloroethane	550	Not Detected	2200	Not Detected
2-Butanone (Methyl Ethyl Ketone)	550	Not Detected	1600	Not Detected
cis-1,2-Dichloroethene	550	Not Detected	2200	Not Detected
Tetrahydrofuran	550	Not Detected	1600	Not Detected
Chloroform	550	Not Detected	2700	Not Detected
1,1,1-Trichloroethane	550	Not Detected	3000	Not Detected
Cyclohexane	550	33000	1900	110000 — "J"
Carbon Tetrachloride	550	Not Detected	3500	Not Detected
2,2,4-Trimethylpentane	550	140000	2600	640000 — "J"
Benzene	550	400000	1800	1300000 — "J"
1,2-Dichloroethane	550	Not Detected	2200	Not Detected
Heptane	550	1100	2200	4600 — "J"
Trichloroethene	550	Not Detected	3000	Not Detected
1,2-Dichloropropane	550	Not Detected	2500	Not Detected
1,4-Dioxane	2200	Not Detected	7900	Not Detected
Bromodichloromethane	550	Not Detected	3700	Not Detected
cis-1,3-Dichloropropene	550	Not Detected	2500	Not Detected
4-Methyl-2-pentanone	550	Not Detected	2200	Not Detected
Toluene	550	Not Detected	2100	Not Detected
trans-1,3-Dichloropropene	550	Not Detected	2500	Not Detected



Client Sample ID: VMP-9-38.5

Lab ID#: 0911275A-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112918	Date of Collection:	11/10/09 1:54:00 PM
Dil. Factor:	110	Date of Analysis:	11/29/09 07:26 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	550	Not Detected	3000	Not Detected
Tetrachloroethene	550	Not Detected	3700	Not Detected
2-Hexanone	2200	Not Detected	9000	Not Detected
Dibromochloromethane	550	Not Detected	4700	Not Detected
1,2-Dibromoethane (EDB)	550	Not Detected	4200	Not Detected
Chlorobenzene	550	Not Detected	2500	Not Detected
Ethyl Benzene	550	Not Detected	2400	Not Detected
m,p-Xylene	550	Not Detected	2400	Not Detected
o-Xylene	550	Not Detected	2400	Not Detected
Styrene	550	Not Detected	2300	Not Detected
Bromoform	550	Not Detected	5700	Not Detected
Cumene	550	Not Detected	2700	Not Detected
1,1,2,2-Tetrachloroethane	550	Not Detected	3800	Not Detected
Propylbenzene	550	Not Detected	2700	Not Detected
4-Ethyltoluene	550	Not Detected	2700	Not Detected
1,3,5-Trimethylbenzene	550	Not Detected	2700	Not Detected
1,2,4-Trimethylbenzene	550	Not Detected	2700	Not Detected
1,3-Dichlorobenzene	550	Not Detected	3300	Not Detected
1,4-Dichlorobenzene	550	Not Detected	3300	Not Detected
alpha-Chlorotoluene	550	Not Detected	2800	Not Detected
1,2-Dichlorobenzene	550	Not Detected	3300	Not Detected
1,2,4-Trichlorobenzene	2200	Not Detected	16000	Not Detected
Hexachlorobuladiene	2200	Not Detected	23000	Not Detected

— "u J"

Q = Exceeds Quality Control limits.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	132 Q	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: VMP-9-25.5

Lab ID#: 0911275A-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112919	Date of Collection:	11/10/09 2:55:00 PM
Dil. Factor:	55.0	Date of Analysis:	11/29/09 07:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	280	Not Detected	1400	Not Detected
Freon 114	280	Not Detected	1900	Not Detected
Chloromethane	1100	Not Detected	2300	Not Detected
Vinyl Chloride	280	Not Detected	700	Not Detected
1,3-Butadiene	280	Not Detected	610	Not Detected
Bromomethane	280	Not Detected	1100	Not Detected
Chloroethane	280	Not Detected	720	Not Detected
Freon 11	280	Not Detected	1500	Not Detected
Ethanol	1100	Not Detected	2100	Not Detected
Freon 113	280	Not Detected	2100	Not Detected
1,1-Dichloroethene	280	Not Detected	1100	Not Detected
Acetone	1100	Not Detected	2600	Not Detected
2-Propanol	1100	Not Detected	2700	Not Detected
Carbon Disulfide	280	Not Detected	860	Not Detected
3-Chloropropene	1100	Not Detected	3400	Not Detected
Methylene Chloride	280	Not Detected	960	Not Detected
Methyl tert-butyl ether	280	Not Detected	990	Not Detected
trans-1,2-Dichloroethene	280	Not Detected	1100	Not Detected
<u>Hexane</u>	280	1900	970	6600 — "J"
1,1-Dichloroethane	280	Not Detected	1100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	280	Not Detected	810	Not Detected
cis-1,2-Dichloroethene	280	Not Detected	1100	Not Detected
Tetrahydrofuran	280	Not Detected	810	Not Detected
Chloroform	280	Not Detected	1300	Not Detected
1,1,1-Trichloroethane	280	Not Detected	1500	Not Detected
<u>Cyclohexane</u>	280	16000	950	54000 — "J"
Carbon Tetrachloride	280	Not Detected	1700	Not Detected
<u>2,2,4-Trimethylpentane</u>	280	150000	1300	710000 — "J"
<u>Benzene</u>	280	3900	880	12000 — "J"
1,2-Dichloroethane	280	Not Detected	1100	Not Detected
<u>Heptane</u>	280	360	1100	1500 — "J"
Trichloroethene	280	Not Detected	1500	Not Detected
1,2-Dichloropropane	280	Not Detected	1300	Not Detected
1,4-Dioxane	1100	Not Detected	4000	Not Detected
Bromodichloromethane	280	Not Detected	1800	Not Detected
cis-1,3-Dichloropropene	280	Not Detected	1200	Not Detected
4-Methyl-2-pentanone	280	Not Detected	1100	Not Detected
Toluene	280	Not Detected	1000	Not Detected
trans-1,3-Dichloropropene	280	Not Detected	1200	Not Detected



Client Sample ID: VMP-9-25.5

Lab ID#: 0911275A-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112919	Date of Collection:	11/10/09 2:55:00 PM
Dil. Factor:	55.0	Date of Analysis:	11/29/09 07:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	280	Not Detected	1500	Not Detected
Tetrachloroethene	280	Not Detected	1900	Not Detected
2-Hexanone	1100	Not Detected	4500	Not Detected
Dibromochloromethane	280	Not Detected	2300	Not Detected
1,2-Dibromoethane (EDB)	280	Not Detected	2100	Not Detected
Chlorobenzene	280	Not Detected	1300	Not Detected
Ethyl Benzene	280	Not Detected	1200	Not Detected
m,p-Xylene	280	Not Detected	1200	Not Detected
o-Xylene	280	Not Detected	1200	Not Detected
Styrene	280	Not Detected	1200	Not Detected
Bromoform	280	Not Detected	2800	Not Detected
Cumene	280	Not Detected	1400	Not Detected
1,1,1,2-Tetrachloroethane	280	Not Detected	1900	Not Detected
Propylbenzene	280	Not Detected	1400	Not Detected
4-Ethyltoluene	280	Not Detected	1400	Not Detected
1,3,5-Trimethylbenzene	280	Not Detected	1400	Not Detected
1,2,4-Trimethylbenzene	280	Not Detected	1400	Not Detected
1,3-Dichlorobenzene	280	Not Detected	1600	Not Detected
1,4-Dichlorobenzene	280	Not Detected	1600	Not Detected
alpha-Chlorotoluene	280	Not Detected	1400	Not Detected
1,2-Dichlorobenzene	280	Not Detected	1600	Not Detected
1,2,4-Trichlorobenzene	1100	Not Detected	8200	Not Detected ~"US"
Hexachlorobutadiene	1100	Not Detected	12000	Not Detected

Q = Exceeds Quality Control limits.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	135 Q	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	103	70-130



Client Sample ID: VMP-9-25.5-D

Lab ID#: 0911275A-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112920	Date of Collection:	11/10/09 3:09:00 PM
Dil. Factor:	49.4	Date of Analysis:	11/29/09 08:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	250	Not Detected	1200	Not Detected
Freon 114	250	Not Detected	1700	Not Detected
Chloromethane	990	Not Detected	2000	Not Detected
Vinyl Chloride	250	Not Detected	630	Not Detected
1,3-Butadiene	250	Not Detected	550	Not Detected
Bromomethane	250	Not Detected	960	Not Detected
Chloroethane	250	Not Detected	650	Not Detected
Freon 11	250	Not Detected	1400	Not Detected
Ethanol	990	Not Detected	1900	Not Detected
Freon 113	250	Not Detected	1900	Not Detected
1,1-Dichloroethene	250	Not Detected	980	Not Detected
Acetone	990	Not Detected	2300	Not Detected
2-Propanol	990	Not Detected	2400	Not Detected
Carbon Disulfide	250	Not Detected	770	Not Detected
3-Chloropropene	990	Not Detected	3100	Not Detected
Methylene Chloride	250	Not Detected	860	Not Detected
Methyl tert-butyl ether	250	Not Detected	890	Not Detected
trans-1,2-Dichloroethene	250	Not Detected	980	Not Detected
Hexane	250	1700	870	5900 — "J"
1,1-Dichloroethane	250	Not Detected	1000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	250	Not Detected	730	Not Detected
cis-1,2-Dichloroethene	250	Not Detected	980	Not Detected
Tetrahydrofuran	250	Not Detected	730	Not Detected
Chloroform	250	Not Detected	1200	Not Detected
1,1,1-Trichloroethane	250	Not Detected	1300	Not Detected
Cyclohexane	250	15000	850	52000 — "J"
Carbon Tetrachloride	250	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane	250	150000	1200	680000 — "J"
Benzene	250	1500	790	4900 — "J"
1,2-Dichloroethane	250	Not Detected	1000	Not Detected
Heptane	250	360	1000	1500 — "J"
Trichloroethene	250	Not Detected	1300	Not Detected
1,2-Dichloropropane	250	Not Detected	1100	Not Detected
1,4-Dioxane	990	Not Detected	3600	Not Detected
Bromodichloromethane	250	Not Detected	1600	Not Detected
cis-1,3-Dichloropropene	250	Not Detected	1100	Not Detected
4-Methyl-2-pentanone	250	Not Detected	1000	Not Detected
Toluene	250	Not Detected	930	Not Detected
trans-1,3-Dichloropropene	250	Not Detected	1100	Not Detected



Client Sample ID: VMP-9-25.5-D

Lab ID#: 0911275A-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112920	Date of Collection: 11/10/09 3:09:00 PM
Dil. Factor:	49.4	Date of Analysis: 11/29/09 08:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	250	Not Detected	1300	Not Detected
Tetrachloroethene	250	Not Detected	1700	Not Detected
2-Hexanone	990	Not Detected	4000	Not Detected
Dibromochloromethane	250	Not Detected	2100	Not Detected
1,2-Dibromoethane (EDB)	250	Not Detected	1900	Not Detected
Chlorobenzene	250	Not Detected	1100	Not Detected
Ethyl Benzene	250	Not Detected	1100	Not Detected
m,p-Xylene	250	Not Detected	1100	Not Detected
o-Xylene	250	Not Detected	1100	Not Detected
Styrene	250	Not Detected	1000	Not Detected
Bromoform	250	Not Detected	2600	Not Detected
Cumene	250	Not Detected	1200	Not Detected
1,1,2,2-Tetrachloroethane	250	Not Detected	1700	Not Detected
Propylbenzene	250	Not Detected	1200	Not Detected
4-Ethyltoluene	250	Not Detected	1200	Not Detected
1,3,5-Trimethylbenzene	250	Not Detected	1200	Not Detected
1,2,4-Trimethylbenzene	250	Not Detected	1200	Not Detected
1,3-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,4-Dichlorobenzene	250	Not Detected	1500	Not Detected
alpha-Chlorotoluene	250	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,2,4-Trichlorobenzene	990	Not Detected	7300	Not Detected
Hexachlorobutadiene	990	Not Detected	10000	Not Detected

Q = Exceeds Quality Control limits.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	136 Q	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: VMP-9-25.5-D Lab Duplicate

Lab ID#: 0911275A-12AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112921	Date of Collection: 11/10/09 3:09:00 PM
Dil. Factor:	49.4	Date of Analysis: 11/29/09 08:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	250	Not Detected	1200	Not Detected
Freon 114	250	Not Detected	1700	Not Detected
Chloromethane	990	Not Detected	2000	Not Detected
Vinyl Chloride	250	Not Detected	630	Not Detected
1,3-Butadiene	250	Not Detected	550	Not Detected
Bromomethane	250	Not Detected	960	Not Detected
Chloroethane	250	Not Detected	650	Not Detected
Freon 11	250	Not Detected	1400	Not Detected
Ethanol	990	Not Detected	1900	Not Detected
Freon 113	250	Not Detected	1900	Not Detected
1,1-Dichloroethene	250	Not Detected	980	Not Detected
Acetone	990	Not Detected	2300	Not Detected
2-Propanol	990	Not Detected	2400	Not Detected
Carbon Disulfide	250	Not Detected	770	Not Detected
3-Chloropropene	990	Not Detected	3100	Not Detected
Methylene Chloride	250	Not Detected	860	Not Detected
Methyl tert-butyl ether	250	Not Detected	890	Not Detected
trans-1,2-Dichloroethene	250	Not Detected	980	Not Detected
Hexane	250	1700	870	5900
1,1-Dichloroethane	250	Not Detected	1000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	250	Not Detected	730	Not Detected
cis-1,2-Dichloroethene	250	Not Detected	980	Not Detected
Tetrahydrofuran	250	Not Detected	730	Not Detected
Chloroform	250	Not Detected	1200	Not Detected
1,1,1-Trichloroethane	250	Not Detected	1300	Not Detected
Cyclohexane	250	15000	850	52000
Carbon Tetrachloride	250	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane	250	140000	1200	680000
Benzene	250	1500	790	4800
1,2-Dichloroethane	250	Not Detected	1000	Not Detected
Heptane	250	400	1000	1700
Trichloroethene	250	Not Detected	1300	Not Detected
1,2-Dichloropropane	250	Not Detected	1100	Not Detected
1,4-Dioxane	990	Not Detected	3600	Not Detected
Bromodichloromethane	250	Not Detected	1600	Not Detected
cis-1,3-Dichloropropene	250	Not Detected	1100	Not Detected
4-Methyl-2-pentanone	250	Not Detected	1000	Not Detected
Toluene	250	Not Detected	930	Not Detected
trans-1,3-Dichloropropene	250	Not Detected	1100	Not Detected

Client Sample ID: VMP-9-25.5-D Lab Duplicate

Lab ID#: 0911275A-12AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112921	Date of Collection:	11/10/09 3:09:00 PM
Dil. Factor:	49.4	Date of Analysis:	11/29/09 08:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	250	Not Detected	1300	Not Detected
Tetrachloroethene	250	Not Detected	1700	Not Detected
2-Hexanone	990	Not Detected	4000	Not Detected
Dibromochloromethane	250	Not Detected	2100	Not Detected
1,2-Dibromoethane (EDB)	250	Not Detected	1900	Not Detected
Chlorobenzene	250	Not Detected	1100	Not Detected
Ethyl Benzene	250	Not Detected	1100	Not Detected
m,p-Xylene	250	Not Detected	1100	Not Detected
o-Xylene	250	Not Detected	1100	Not Detected
Styrene	250	Not Detected	1000	Not Detected
Bromoform	250	Not Detected	2600	Not Detected
Cumene	250	Not Detected	1200	Not Detected
1,1,2,2-Tetrachloroethane	250	Not Detected	1700	Not Detected
Propylbenzene	250	Not Detected	1200	Not Detected
4-Ethyltoluene	250	Not Detected	1200	Not Detected
1,3,5-Trimethylbenzene	250	Not Detected	1200	Not Detected
1,2,4-Trimethylbenzene	250	Not Detected	1200	Not Detected
1,3-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,4-Dichlorobenzene	250	Not Detected	1500	Not Detected
alpha-Chlorotoluene	250	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,2,4-Trichlorobenzene	990	Not Detected	7300	Not Detected
Hexachlorobutadiene	990	Not Detected	10000	Not Detected

Q = Exceeds Quality Control limits.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	137 Q	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: VMP-9-11.5

Lab ID#: 0911275A-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112411	Date of Collection: 11/11/09 9:16:00 AM
Dil. Factor:	2.76	Date of Analysis: 11/24/09 09:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	Not Detected	6.8	Not Detected
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	5.5	Not Detected	11	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	1.4	Not Detected	5.4	Not Detected
Chloroethane	1.4	Not Detected	3.6	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.5	7.3	10	14
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.5	7.1	13	17
2-Propanol	5.5	Not Detected	14	Not Detected
Carbon Disulfide	1.4	Not Detected	4.3	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	1.4	Not Detected	4.8	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	Not Detected	4.9	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.4	1.5	4.1	4.5
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	Not Detected	6.4	Not Detected
Benzene	1.4	Not Detected	4.4	Not Detected
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.6	Not Detected
Toluene	1.4	8.4	5.2	32
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected



Client Sample ID: VMP-9-11.5

Lab ID#: 0911275A-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112411	Date of Collection: 11/11/09 9:16:00 AM
Dil. Factor:	2.76	Date of Analysis: 11/24/09 09:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected
2-Hexanone	5.5	Not Detected	23	Not Detected
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	Not Detected	6.0	Not Detected
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: VMP-9-5

Lab ID#: 0911275A-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112410	Date of Collection: 11/11/09 10:06:00 A
Dil. Factor:	2.24	Date of Analysis: 11/24/09 08:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	9.6	8.4	18
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	4.9	11	12
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	1.2	3.3	3.5
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected



Client Sample ID: VMP-9-5

Lab ID#: 0911275A-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112410	Date of Collection:	11/11/09 10:06:00 A
Dil. Factor:	2.24	Date of Analysis:	11/24/09 08:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: YMP-10-5

Lab ID#: 0911275A-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112409	Date of Collection:	11/11/09 12:25:00 P
Dil. Factor:	2.20	Date of Analysis:	11/24/09 07:57 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.7	Not Detected
Chloromethane	4.4	Not Detected	9.1	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	94	8.3	180
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	14	10	33
2-Propanol	4.4	360	11	870
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	1.1	3.2	3.2
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	6.4	3.5	20
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	1.2	4.1	4.6
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected



Client Sample ID: VMP-10-5

Lab ID#: 0911275A-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112409	Date of Collection:	11/11/09 12:25:00 P
Dil. Factor:	2.20	Date of Analysis:	11/24/09 07:57 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	Not Detected	7.5	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: VMP-10-10

Lab ID#: 0911275A-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112407	Date of Collection:	11/11/09 1:36:00 PM
Dil. Factor:	2.29	Date of Analysis:	11/24/09 06:54 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	4.6	Not Detected	9.4	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.4	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Ethanol	4.6	24	8.6	46 "J"
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	4.6	Not Detected	11	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.6	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.4	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.7	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected



Client Sample ID: VMP-10-10

Lab ID#: 0911275A-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112407	Date of Collection:	11/11/09 1:36:00 PM
Dil. Factor:	2.29	Date of Analysis:	11/24/09 06:54 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	106	70-130



Client Sample ID: VMP-10-10 Lab Duplicate

Lab ID#: 0911275A-16AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112408	Date of Collection:	11/11/09 1:36:00 PM
Dil. Factor:	2.29	Date of Analysis:	11/24/09 07:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	4.6	Not Detected	9.4	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.4	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Ethanol	4.6	20	8.6	39
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	4.6	Not Detected	11	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.6	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.4	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.7	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected

Client Sample ID: VMP-10-10 Lab Duplicate

Lab ID#: 0911275A-16AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112408	Date of Collection: 11/11/09 1:36:00 PM
Dil. Factor:	2.29	Date of Analysis: 11/24/09 07:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,1,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	104	70-130



Client Sample ID: VMP-10-20

Lab ID#: 0911275A-17A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112405	Date of Collection:	11/11/09 2:31:00 PM
Dil. Factor:	2.24	Date of Analysis:	11/24/09 05:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	19	8.4	36 "J"
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	6.0	11	14
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	1.9	3.9	6.8
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	1.2	4.6	4.9
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	1.4	4.2	5.2
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected



Client Sample ID: VMP-10-20

Lab ID#: 0911275A-17A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112405	Date of Collection:	11/11/09 2:31:00 PM
Dil. Factor:	2.24	Date of Analysis:	11/24/09 05:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,1,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	106	70-130



Client Sample ID: VMP-10-20-D

Lab ID#: 0911275A-18A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112406	Date of Collection:	11/11/09 2:44:00 PM
Dil. Factor:	2.47	Date of Analysis:	11/24/09 06:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	4.9	Not Detected	10	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	1.2	Not Detected	4.8	Not Detected
Chloroethane	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Ethanol	4.9	110	9.3	220 - 220 J
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	4.9	11	12	26 - ok
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	1.2	Not Detected	3.8	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	1.2	Not Detected	4.3	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	2.0	3.6	5.8 - ok
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.8	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Heptane	1.2	Not Detected	5.1	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	1.5	4.6	5.8 - ok
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected



Client Sample ID: VMP-10-20-D

Lab ID#: 0911275A-18A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112406	Date of Collection:	11/11/09 2:44:00 PM
Dil. Factor:	2.47	Date of Analysis:	11/24/09 06:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
Propylbenzene	1.2	Not Detected	6.1	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	37	Not Detected
Hexachlorobutadiene	4.9	Not Detected	53	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	105	70-130



Client Sample ID: Lab Blank

Lab ID#: 0911275A-19A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112404	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/24/09 05:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 0911275A-19A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112404	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/24/09 05:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,1,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: Lab Blank

Lab ID#: 0911275A-19B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112506	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/25/09 09:28 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 0911275A-19B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112506	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/25/09 09:28 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,1,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	99	70-130



Client Sample ID: Lab Blank

Lab ID#: 0911275A-19C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112904	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/29/09 10:30 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 0911275A-19C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112904	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/29/09 10:30 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130



Client Sample ID: CCV

Lab ID#: 0911275A-20A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/24/09 03:21 PM

Compound	%Recovery
Freon 12	106
Freon 114	105
Chloromethane	101
Vinyl Chloride	102
1,3-Butadiene	101
Bromomethane	112
Chloroethane	100
Freon 11	111
Ethanol	103
Freon 113	106
1,1-Dichloroethene	108
Acetone	102
2-Propanol	106
Carbon Disulfide	107
3-Chloropropene	105
Methylene Chloride	107
Methyl tert-butyl ether	113
trans-1,2-Dichloroethene	109
Hexane	108
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	113
cis-1,2-Dichloroethene	108
Tetrahydrofuran	103
Chloroform	111
1,1,1-Trichloroethane	113
Cyclohexane	109
Carbon Tetrachloride	114
2,2,4-Trimethylpentane	104
Benzene	107
1,2-Dichloroethane	112
Heptane	108
Trichloroethene	109
1,2-Dichloropropane	108
1,4-Dioxane	103
Bromodichloromethane	113
cis-1,3-Dichloropropene	113
4-Methyl-2-pentanone	112
Toluene	107
trans-1,3-Dichloropropene	120



Client Sample ID: CCV

Lab ID#: 0911275A-20A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/24/09 03:21 PM

Compound	%Recovery
1,1,2-Trichloroethane	112
Tetrachloroethene	111
2-Hexanone	112
Dibromochloromethane	121
1,2-Dibromoethane (EDB)	119
Chlorobenzene	109
Ethyl Benzene	111
m,p-Xylene	109
o-Xylene	108
Styrene	118
Bromoform	122
Cumene	115
1,1,2,2-Tetrachloroethane	110
Propylbenzene	122
4-Ethyltoluene	111
1,3,5-Trimethylbenzene	115
1,2,4-Trimethylbenzene	113
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	124
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	81
Hexachlorobutadiene	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: CCV

Lab ID#: 0911275A-20B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/25/09 08:01 AM

Compound	%Recovery
Freon 12	97
Freon 114	105
Chloromethane	92
Vinyl Chloride	102
1,3-Butadiene	104
Bromomethane	104
Chloroethane	104
Freon 11	102
Ethanol	104
Freon 113	110
1,1-Dichloroethene	104
Acetone	107
2-Propanol	100
Carbon Disulfide	105
3-Chloropropene	108
Methylene Chloride	100
Methyl tert-butyl ether	130
trans-1,2-Dichloroethene	106
Hexane	109
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	107
cis-1,2-Dichloroethene	104
Tetrahydrofuran	107
Chloroform	101
1,1,1-Trichloroethane	102
Cyclohexane	108
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	110
Benzene	100
1,2-Dichloroethane	98
Heptane	108
Trichloroethene	102
1,2-Dichloropropane	102
1,4-Dioxane	108
Bromodichloromethane	100
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	120
Toluene	100
trans-1,3-Dichloropropene	108

Client Sample ID: CCV

Lab ID#: 0911275A-20B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/25/09 08:01 AM

Compound	%Recovery
1,1,2-Trichloroethane	103
Tetrachloroethene	108
2-Hexanone	112
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	106
Chlorobenzene	104
Ethyl Benzene	105
m,p-Xylene	106
o-Xylene	112
Styrene	113
Bromoform	112
Cumene	114
1,1,1,2-Tetrachloroethane	102
Propylbenzene	110
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	115
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	122
Hexachlorobutadiene	119

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: CCV

Lab ID#: 0911275A-20C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112902	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/29/09 08:58 AM

Compound	%Recovery
Freon 12	94
Freon 114	96
Chloromethane	96
Vinyl Chloride	94
1,3-Butadiene	92
Bromomethane	89
Chloroethane	97
Freon 11	93
Ethanol	82
Freon 113	94
1,1-Dichloroethene	95
Acetone	93
2-Propanol	90
Carbon Disulfide	94
3-Chloropropene	94
Methylene Chloride	92
Methyl tert-butyl ether	129
trans-1,2-Dichloroethene	92
Hexane	94
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	93
Tetrahydrofuran	93
Chloroform	93
1,1,1-Trichloroethane	94
Cyclohexane	93
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	95
Benzene	97
1,2-Dichloroethane	98
Heptane	99
Trichloroethene	92
1,2-Dichloropropane	96
1,4-Dioxane	93
Bromodichloromethane	96
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	93
Toluene	98
trans-1,3-Dichloropropene	91



Client Sample ID: CCV

Lab ID#: 0911275A-20C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112902	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/29/09 08:58 AM

Compound	%Recovery
1,1,2-Trichloroethane	94
Tetrachloroethene	95
2-Hexanone	90
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	91
Chlorobenzene	91
Ethyl Benzene	92
m,p-Xylene	92
o-Xylene	92
Styrene	96
Bromoform	98
Cumene	91
1,1,2,2-Tetrachloroethane	94
Propylbenzene	92
4-Ethyltoluene	91
1,3,5-Trimethylbenzene	89
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	89
alpha-Chlorotoluene	87
1,2-Dichlorobenzene	87
1,2,4-Trichlorobenzene	70
Hexachlorobutadiene	74

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: LCS

Lab ID#: 0911275A-21A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/24/09 04:15 PM

Compound	%Recovery
Freon 12	89
Freon 114	89
Chloromethane	84
Vinyl Chloride	89
1,3-Butadiene	87
Bromomethane	95
Chloroethane	85
Freon 11	95
Ethanol	150 Q
Freon 113	82
1,1-Dichloroethene	82
Acetone	84
2-Propanol	86
Carbon Disulfide	91
3-Chloropropene	88
Methylene Chloride	84
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	92
Hexane	90
1,1-Dichloroethane	89
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	90
Tetrahydrofuran	88
Chloroform	92
1,1,1-Trichloroethane	94
Cyclohexane	92
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	88
Benzene	92
1,2-Dichloroethane	96
Heptane	94
Trichloroethene	94
1,2-Dichloropropane	95
1,4-Dioxane	89
Bromodichloromethane	98
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	98
Toluene	89
trans-1,3-Dichloropropene	118

Client Sample ID: LCS

Lab ID#: 0911275A-21A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/24/09 04:15 PM

Compound	%Recovery
1,1,2-Trichloroethane	110
Tetrachloroethene	107
2-Hexanone	107
Dibromochloromethane	117
1,2-Dibromoethane (EDB)	121
Chlorobenzene	108
Ethyl Benzene	111
m,p-Xylene	109
o-Xylene	106
Styrene	118
Bromoform	120
Cumene	112
1,1,2,2-Tetrachloroethane	114
Propylbenzene	119
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	116
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	124
1,2-Dichlorobenzene	117
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	122

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: LCS

Lab ID#: 0911275A-21B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/25/09 08:25 AM

Compound	%Recovery
Freon 12	72
Freon 114	77
Chloromethane	72
Vinyl Chloride	76
1,3-Butadiene	82
Bromomethane	79
Chloroethane	76
Freon 11	76
Ethanol	134
Freon 113	72
1,1-Dichloroethene	68 Q
Acetone	76
2-Propanol	71
Carbon Disulfide	77
3-Chloropropene	78
Methylene Chloride	69 Q
Methyl tert-butyl ether	87
trans-1,2-Dichloroethene	79
Hexane	78
1,1-Dichloroethane	71
2-Butanone (Methyl Ethyl Ketone)	82
cis-1,2-Dichloroethene	82
Tetrahydrofuran	79
Chloroform	72
1,1,1-Trichloroethane	74
Cyclohexane	82
Carbon Tetrachloride	77
2,2,4-Trimethylpentane	80
Benzene	74
1,2-Dichloroethane	70
Heptane	78
Trichloroethene	75
1,2-Dichloropropane	74
1,4-Dioxane	85
Bromodichloromethane	72
cis-1,3-Dichloropropene	82
4-Methyl-2-pentanone	84
Toluene	70
trans-1,3-Dichloropropene	81

Client Sample ID: LCS

Lab ID#: 0911275A-21B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w112504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/25/09 08:25 AM

Compound	%Recovery
1,1,2-Trichloroethane	77
Tetrachloroethene	79
2-Hexanone	89
Dibromochloromethane	78
1,2-Dibromoethane (EDB)	83
Chlorobenzene	78
Ethyl Benzene	81
m,p-Xylene	81
o-Xylene	82
Styrene	84
Bromoform	82
Cumene	84
1,1,2,2-Tetrachloroethane	79
Propylbenzene	81
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	80
1,2,4-Trimethylbenzene	87
1,3-Dichlorobenzene	82
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	88
1,2-Dichlorobenzene	85
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	94

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: LCS

Lab ID#: 0911275A-21C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112903	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/29/09 09:23 AM

Compound	%Recovery
Freon 12	89
Freon 114	87
Chloromethane	89
Vinyl Chloride	87
1,3-Butadiene	86
Bromomethane	83
Chloroethane	90
Freon 11	85
Ethanol	119
Freon 113	76
1,1-Dichloroethene	78
Acetone	80
2-Propanol	79
Carbon Disulfide	86
3-Chloropropene	83
Methylene Chloride	79
Methyl tert-butyl ether	119
trans-1,2-Dichloroethene	83
Hexane	84
1,1-Dichloroethane	83
2-Butanone (Methyl Ethyl Ketone)	84
cis-1,2-Dichloroethene	82
Tetrahydrofuran	84
Chloroform	82
1,1,1-Trichloroethane	84
Cyclohexane	85
Carbon Tetrachloride	83
2,2,4-Trimethylpentane	85
Benzene	85
1,2-Dichloroethane	86
Heptane	88
Trichloroethene	83
1,2-Dichloropropane	85
1,4-Dioxane	83
Bromodichloromethane	83
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	82
Toluene	84
trans-1,3-Dichloropropene	81

Client Sample ID: LCS

Lab ID#: 0911275A-21C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112903	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/29/09 09:23 AM

Compound	%Recovery
1,1,2-Trichloroethane	85
Tetrachloroethene	85
2-Hexanone	83
Dibromochloromethane	86
1,2-Dibromoethane (EDB)	85
Chlorobenzene	84
Ethyl Benzene	85
m,p-Xylene	84
o-Xylene	83
Styrene	85
Bromoform	86
Cumene	81
1,1,1,2-Tetrachloroethane	87
Propylbenzene	83
4-Ethyltoluene	81
1,3,5-Trimethylbenzene	80
1,2,4-Trimethylbenzene	87
1,3-Dichlorobenzene	79
1,4-Dichlorobenzene	82
alpha-Chlorotoluene	72
1,2-Dichlorobenzene	79
1,2,4-Trichlorobenzene	63 Q
Hexachlorobutadiene	70

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	105	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 3

Project Manager Ashley Scott (Air Toxics) / Scott Adams (URS)
 Collected by: (Print and Sign) Kelly Hunt / Kelly D. A.
 Company URS Corporation Email thomas.adams@urscorp.com
 Address 1040 Highway 167, Suite 200 City St. Louis State MO Zip 63110
 Phone 314 489-0100 Fax 314 489-0167

Project Info:
 P.O. # _____
 Project # 21562175.00005
 Project Name Form Dissolved Phase
 Turn Around Time: Normal Rush
 Pressurized by: _____ Date: _____
 Pressurization Gas: N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
01A	VMP - 6-31.5	000001084	11/9/09	1041/1010	<u>Asst D-1946+He</u>	-30	-4
02A	VMP - 6-39.1	000000043	11/9/09	1045/1102		-30	-4
03A	VMP - 7-5	000000232	11/9/09	1145/1215		-30	-5
04A	VMP - 7-13.5	000001431	11/9/09	1252/1310		-30	-3
05A	VMP - 7-29.5	000000369	11/9/09	1355/1413		-30	-4
06A	VMP - 7-38	000000071	11/9/09	1511/1541		-30	-5

Relinquished by: (signature) _____ Date/Time 11/11/09 1700
 Received by: (signature) _____ Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) Monica Green Date/Time 11/20/09 0900
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Notes: Hebin used as tracer gas

Lab Use Only
 Shipper Name: FedEx Air Bill # _____
 Condition: GOOD Custody Seals Intact? Yes No None
 Temp (°C) NA Work Order # 0911275



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Angela Scott (Air Toxics) / Kelly Hurst (URS)
 Collected by: (Print and Sign) Kelly Hurst
 Company URS Corporation Email thomas.alonso@urscorp.com
 Address 1001 Highway Plaza Dr W Suite 300 State MO Zip 63110
 Phone 314 429-0100 Fax 314 429-0467

Project Info:
 P.O. # _____
 Project # 2152175.0005
 Project Name Program Dissolved Phase
 Turn Around Time: Normal Rush
 Date: _____
 Pressurization Gas: _____
 N₂ He _____

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
07A	VMP - 8-5	0000003320	11/10/09	0905 / 0918	none 80-15, 157M, 1946, 144	-30	-5
08A	VMP - 8-9.5	0000000099	11/10/09	0950 / 1011		-30	-4.5
09A	VMP - 8-23.5	0000002826	11/10/09	1051 / 1111		-30	-5
10A	VMP - 9-38.5	0000000935	11/10/09	1333 / 1354		-30	-3
11A	VMP - 9-25.5	0000002709	11/10/09	1439 / 1455		-30	-3
12A	VMP - 9-25.5P	0000000728	11/10/09	1439 / 1509		-30	-6

Relinquished by: (signature) [Signature] Date/Time 11/10/09 1700
 Received by: (signature) FedEx Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) Monica Groden Date/Time 11/10/09 0900
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Notes:

Helium used as tracer gas

Lab Use Only
 Shipper Name FedEx Air Bill # NA Temp (°C) NA Condition Good Custody Seats Intact? (Yes) No None
 Work Order # 0911275



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Andrea Scott Air Toxics / Scott Adams (UPS)
 Collected by: (Print and Sign) Kelly Hunt Kelly
 Company UPS Corporation Email thunt@adamsurserp.com
 Address 801 Highway Plaza Dr., Suite 200 City Sr. Lewis State Mo Zip 63160
 Phone 314 429-0100 Fax 314 429-0462

Project Info:
 P.O. # _____
 Project # 21502175.00005
 Project Name Perkins Disposal Phase

Turn Around Time:
 Normal
 Rush
specify

Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
13A	VMP-9-11.5	000005864	11/11/09	0843-0916	Asst. 15 ASD-15-19467 He	-30	-9
14A	VMP-9-5	000003415	11/11/09	0949-1006		-30	-4
15A	VMP-10-5	000002514	11/11/09	1207-1225		-30	-2
16A	VMP-10-10	000002085	11/11/09	1318-1336		-30	-5
17A	VMP-10-20	000002723	11/11/09	1413-1431		-30	-3.5
18A	VMP-10-20-D	000003761	11/11/09	1413-1444		-30	-6

Notes: Hebarn used as tracer gas

Relinquished by: (signature) [Signature] Date/Time 11/11/09 1700
 Received by: (signature) Fed Ex Date/Time _____

Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) Monica Eberlein Date/Time AT 11/11/09 900

Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Lab Use Only
 Shipper Name: Fed Ex Air Bill #: _____ Temp. (C): NA Condition: Good Custody Seals Intact? Yes No None Work Order #: 0911275

Roxana Data Review

Laboratory SDG: 0911275B

Reviewer: Tony Sedlacek

Date Reviewed: 1/11/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-6-31.5	VMP-6-39
VMP-7-5	VMP-7-13.5
VMP-7-29.5	VMP-7-38
VMP-8-5	VMP-8-9.5
VMP-8-23.5	VMP-9-38.5
VMP-9-25.5	VMP-9-25.5-D
VMP-9-11.5	VMP-9-5
VMP-10-5	VMP-10-10
VMP-10-20	VMP-10-20-D

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative did not indicate any problems. However, the field duplicate RPD for carbon dioxide was outside evaluation criteria. This issue is addressed further in the appropriate section below.

The cooler receipt form indicated that there were sample ID discrepancies between the COC and samples labels for summa canisters VMP-7-13.5 and VMP-7-38. The laboratory contacted URS and was directed that the sample IDs on the summa canisters were correct. All sample ID discrepancies were resolved prior to sample analysis. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Not applicable; samples were analyzed for Methane and fixed gases in air and surrogates are not required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No, MS/MSD samples are not collected for Method ASTM D-1946 since spiking material is unable to be added to the summa canister.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

Yes, samples VMP-9-5 and VMP-10-20 were duplicated and analyzed for Methane and fixed gases in air.

Were laboratory duplicate sample RPDs within criteria?

Yes

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-9-25.5	VMP-9-25.5-D
VMP-10-20	VMP-10-20-D

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
VMP-10-20	VMP-10-20-D	Natural gas	Carbon dioxide	42	J

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

11/25/2009

Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562175.00005
Workorder #: 0911275B

Dear Mr. Mike Miller

The following report includes the data for the above referenced project for sample(s) received on 11/12/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 0911275B

Work Order Summary

CLIENT:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-566-3073	P.O. #	
FAX:		PROJECT #	21562175.00005 Roxana Dissolved
DATE RECEIVED:	11/12/2009	CONTACT:	Phase Ausha Scott
DATE COMPLETED:	11/25/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-6-31.5	Modified ASTM D-1946	3.0 "Hg	15 psi
02A	VMP-6-39	Modified ASTM D-1946	3.5 "Hg	15 psi
03A	VMP-7-5	Modified ASTM D-1946	4.0 "Hg	15 psi
04A	VMP-7-13.5	Modified ASTM D-1946	3.0 "Hg	15 psi
05A	VMP-7-29.5	Modified ASTM D-1946	3.5 "Hg	15 psi
06A	VMP-7-38	Modified ASTM D-1946	4.5 "Hg	15 psi
07A	VMP-8-5	Modified ASTM D-1946	4.0 "Hg	15 psi
08A	VMP-8-9.5	Modified ASTM D-1946	3.0 "Hg	15 psi
09A	VMP-8-23.5	Modified ASTM D-1946	4.5 "Hg	15 psi
10A	VMP-9-38.5	Modified ASTM D-1946	2.5 "Hg	15 psi
11A	VMP-9-25.5	Modified ASTM D-1946	2.5 "Hg	15 psi
12A	VMP-9-25.5-D	Modified ASTM D-1946	5.5 "Hg	15 psi
13A	VMP-9-11.5	Modified ASTM D-1946	8.0 "Hg	15 psi
14A	VMP-9-5	Modified ASTM D-1946	3.0 "Hg	15 psi
14AA	VMP-9-5 Lab Duplicate	Modified ASTM D-1946	3.0 "Hg	15 psi
15A	VMP-10-5	Modified ASTM D-1946	2.5 "Hg	15 psi
16A	VMP-10-10	Modified ASTM D-1946	3.5 "Hg	15 psi

Continued on next page

WORK ORDER #: 0911275B

Work Order Summary

CLIENT: Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-566-3073

FAX:

DATE RECEIVED: 11/12/2009

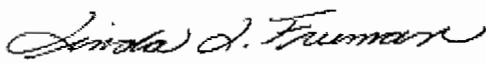
DATE COMPLETED: 11/25/2009

P.O. #

PROJECT # 21562175.00005 Roxana Dissolved

CONTACT: Phase
Ausha Scott

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
17A	VMP-10-20	Modified ASTM D-1946	3.0 "Hg	15 psi
17AA	VMP-10-20 Lab Duplicate	Modified ASTM D-1946	3.0 "Hg	15 psi
18A	VMP-10-20-D	Modified ASTM D-1946	5.5 "Hg	15 psi
19A	Lab Blank	Modified ASTM D-1946	NA	NA
19B	Lab Blank	Modified ASTM D-1946	NA	NA
20A	LCS	Modified ASTM D-1946	NA	NA

CERTIFIED BY: 
Laboratory Director

DATE: 11/25/09

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 0911275B**

Eighteen 1 Liter Summa Canister samples were received on November 12, 2009. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 \times$ the RL.

Receiving Notes

The Chain of Custody (COC) information for sample VMP-7-13.5 and VMP-7-38 did not match the information on the canisters with regard to canister identification. The client was notified of the discrepancy and the information on the canisters were used to process and report the samples.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-6-31.5

Lab ID#: 0911275B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.4
Nitrogen	0.22	75
Methane	0.00022	7.7
Carbon Dioxide	0.022	14
Ethane	0.0022	0.0030

Client Sample ID: VMP-6-39

Lab ID#: 0911275B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.3
Nitrogen	0.23	73
Methane	0.00023	8.3
Carbon Dioxide	0.023	15
Ethane	0.0023	0.0033

Client Sample ID: VMP-7-5

Lab ID#: 0911275B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	18
Nitrogen	0.23	78
Carbon Dioxide	0.023	1.7
Helium	0.12	2.7

Client Sample ID: VMP-7-13.5

Lab ID#: 0911275B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	2.1
Nitrogen	0.22	82
Methane	0.00022	0.10
Carbon Dioxide	0.022	16

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-7-29.5

Lab ID#: 0911275B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.3
Nitrogen	0.23	77
Methane	0.00023	4.4
Carbon Dioxide	0.023	17

Client Sample ID: VMP-7-38

Lab ID#: 0911275B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	17
Nitrogen	0.24	79
Methane	0.00024	0.95
Carbon Dioxide	0.024	3.2

Client Sample ID: VMP-8-5

Lab ID#: 0911275B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	16
Nitrogen	0.23	79
Carbon Dioxide	0.023	5.1

Client Sample ID: VMP-8-9.5

Lab ID#: 0911275B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	12
Nitrogen	0.22	78
Carbon Dioxide	0.022	9.0
Helium	0.11	0.79

Client Sample ID: VMP-8-23.5

Lab ID#: 0911275B-09A

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-8-23.5

Lab ID#: 0911275B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	11
Nitrogen	0.24	79
Carbon Dioxide	0.024	10

Client Sample ID: VMP-9-38.5

Lab ID#: 0911275B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.2
Nitrogen	0.22	78
Methane	0.00022	3.2
Carbon Dioxide	0.022	17

Client Sample ID: VMP-9-25.5

Lab ID#: 0911275B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.2
Nitrogen	0.22	78
Methane	0.00022	3.8
Carbon Dioxide	0.022	17

Client Sample ID: VMP-9-25.5-D

Lab ID#: 0911275B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.3
Nitrogen	0.25	79
Methane	0.00025	3.8
Carbon Dioxide	0.025	16

Client Sample ID: VMP-9-11.5

Lab ID#: 0911275B-13A

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-9-11.5

Lab ID#: 0911275B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	6.5
Nitrogen	0.28	79
Carbon Dioxide	0.028	12
Helium	0.14	2.5

Client Sample ID: VMP-9-5

Lab ID#: 0911275B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	16
Nitrogen	0.22	69
Carbon Dioxide	0.022	3.8
Helium	0.11	11

Client Sample ID: VMP-9-5 Lab Duplicate

Lab ID#: 0911275B-14AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	16
Nitrogen	0.22	69
Carbon Dioxide	0.022	3.8
Helium	0.11	11

Client Sample ID: VMP-10-5

Lab ID#: 0911275B-15A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	18
Nitrogen	0.22	78
Carbon Dioxide	0.022	3.9

Client Sample ID: VMP-10-10

Lab ID#: 0911275B-16A

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-10-10

Lab ID#: 0911275B-16A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	11
Nitrogen	0.23	79
Carbon Dioxide	0.023	9.9

Client Sample ID: VMP-10-20

Lab ID#: 0911275B-17A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	22
Nitrogen	0.22	78
Carbon Dioxide	0.022	0.15

Client Sample ID: VMP-10-20 Lab Duplicate

Lab ID#: 0911275B-17AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	21
Nitrogen	0.22	79
Carbon Dioxide	0.022	0.14

Client Sample ID: VMP-10-20-D

Lab ID#: 0911275B-18A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	21
Nitrogen	0.25	78
Carbon Dioxide	0.025	0.23
Helium	0.12	0.58



Client Sample ID: VMP-6-31.5

Lab ID#: 0911275B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112316	Date of Collection: 11/9/09 10:10:00 AM
Dil. Factor:	2.24	Date of Analysis: 11/23/09 01:51 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.4
Nitrogen	0.22	75
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	7.7
Carbon Dioxide	0.022	14
Ethane	0.0022	0.0030
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-6-39

Lab ID#: 0911275B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112317	Date of Collection: 11/9/09 11:02:00 AM
Dil. Factor:	2.29	Date of Analysis: 11/23/09 02:17 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.3
Nitrogen	0.23	73
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	8.3
Carbon Dioxide	0.023	15
Ethane	0.0023	0.0033
Ethene	0.0023	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-7-5

Lab ID#: 0911275B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112304	Date of Collection: 11/9/09 12:15:00 PM
Dil. Factor:	2.33	Date of Analysis: 11/23/09 08:43 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	18
Nitrogen	0.23	78
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	Not Detected
Carbon Dioxide	0.023	1.7
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.12	2.7

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-7-13.5

Lab ID#: 0911275B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112305	Date of Collection: 11/9/09 1:10:00 PM
Dil. Factor:	2.24	Date of Analysis: 11/23/09 09:05 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	2.1
Nitrogen	0.22	82
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	0.10
Carbon Dioxide	0.022	16
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-7-29.5

Lab ID#: 0911275B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112319	Date of Collection: 11/9/09 2:13:00 PM
Dil. Factor:	2.29	Date of Analysis: 11/23/09 03:22 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.3
Nitrogen	0.23	77
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	4.4
Carbon Dioxide	0.023	17
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-7-38

Lab ID#: 0911275B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112322	Date of Collection: 11/9/09 3:41:00 PM
Dil. Factor:	2.38	Date of Analysis: 11/23/09 05:40 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	17
Nitrogen	0.24	79
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	0.95
Carbon Dioxide	0.024	3.2
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-8-5

Lab ID#: 0911275B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112306	Date of Collection: 11/10/09 9:18:00 AM
Dil. Factor:	2.33	Date of Analysis: 11/23/09 09:28 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	16
Nitrogen	0.23	79
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	Not Detected
Carbon Dioxide	0.023	5.1
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-8-9.5

Lab ID#: 0911275B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112307	Date of Collection: 11/10/09 10:11:00 A
Dil. Factor:	2.24	Date of Analysis: 11/23/09 09:51 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	12
Nitrogen	0.22	78
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	9.0
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	0.79

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-8-23.5

Lab ID#: 0911275B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112308	Date of Collection: 11/10/09 11:11:00 A
Dil. Factor:	2.38	Date of Analysis: 11/23/09 10:18 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	11
Nitrogen	0.24	79
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	Not Detected
Carbon Dioxide	0.024	10
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-9-38.5

Lab ID#: 0911275B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112325	Date of Collection:	11/10/09 1:54:00 PM
Dil. Factor:	2.20	Date of Analysis:	11/23/09 07:40 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.2
Nitrogen	0.22	78
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	3.2
Carbon Dioxide	0.022	17
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-9-25.5

Lab ID#: 0911275B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112327	Date of Collection: 11/10/09 2:55:00 PM
Dil. Factor:	2.20	Date of Analysis: 11/23/09 09:44 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.2
Nitrogen	0.22	78
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	3.8
Carbon Dioxide	0.022	17
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-9-25.5-D

Lab ID#: 0911275B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112328	Date of Collection: 11/10/09 3:09:00 PM
Dil. Factor:	2.47	Date of Analysis: 11/23/09 10:13 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.3
Nitrogen	0.25	79
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	3.8
Carbon Dioxide	0.025	16
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-9-11.5

Lab ID#: 0911275B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112309	Date of Collection:	11/11/09 9:16:00 AM
Dil. Factor:	2.76	Date of Analysis:	11/23/09 10:50 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	6.5
Nitrogen	0.28	79
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	Not Detected
Carbon Dioxide	0.028	12
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	2.5

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-9-5

Lab ID#: 0911275B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112310	Date of Collection:	11/11/09 10:06:00 A
Dil. Factor:	2.24	Date of Analysis:	11/23/09 11:11 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	16
Nitrogen	0.22	69
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	3.8
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	11

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-9-5 Lab Duplicate

Lab ID#: 0911275B-14AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112311	Date of Collection: 11/11/09 10:06:00 A
Dil. Factor:	2.24	Date of Analysis: 11/23/09 11:33 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	16
Nitrogen	0.22	69
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	3.8
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	11

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-10-5

Lab ID#: 0911275B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112312	Date of Collection: 11/11/09 12:25:00 P
Dil. Factor:	2.20	Date of Analysis: 11/23/09 11:59 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	18
Nitrogen	0.22	78
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	3.9
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-10-10

Lab ID#: 0911275B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112314	Date of Collection:	11/11/09 1:36:00 PM
Dil. Factor:	2.29	Date of Analysis:	11/23/09 12:58 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	11
Nitrogen	0.23	79
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	Not Detected
Carbon Dioxide	0.023	9.9
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-10-20

Lab ID#: 0911275B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112315	Date of Collection:	11/11/09 2:31:00 PM
Dil. Factor:	2.24	Date of Analysis:	11/23/09 01:23 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	22
Nitrogen	0.22	78
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	0.15 — "J"
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-10-20 Lab Duplicate

Lab ID#: 0911275B-17AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112330	Date of Collection:	11/11/09 2:31:00 PM
Dil. Factor:	2.24	Date of Analysis:	11/23/09 11:04 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	21
Nitrogen	0.22	79
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	Not Detected
Carbon Dioxide	0.022	0.14
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-10-20-D

Lab ID#: 0911275B-18A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112313	Date of Collection:	11/11/09 2:44:00 PM
Dil. Factor:	2.47	Date of Analysis:	11/23/09 12:30 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	21
Nitrogen	0.25	78
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	Not Detected
Carbon Dioxide	0.025	0.23 — 'J'
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.12	0.58

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 0911275B-19A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/23/09 08:03 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: Lab Blank

Lab ID#: 0911275B-19B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112302b	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/23/09 07:38 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 0911275B-20A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112331	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/23/09 11:26 PM

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	103
Methane	103
Carbon Dioxide	102
Ethane	102
Ethene	103
Helium	103

Container Type: NA - Not Applicable



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 3

Project Manager Austin Scott (Air Toxics) / Self Admin (URS)
 Collected by: (Print and Sign) Kelly Hurst
 Company URS Corporation Email thomas.walsh@urscorp.com
 Address 1600 Highland's Plaza, Suite 300 City St. Louis State MO Zip 63110
 Phone 314 479-0100 Fax 314 479-0167

Project Info:
 P.O. # _____
 Project # 21562175, 00005
 Project Name Estimate Dissolved Phase
 Turn Around Time: Normal Rush
 Date: _____
 Pressurization Gas: _____
 Pressurized by: _____
 N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final (psi)
01A	VMP - 6-3LS	0000001089	11/9/09	09111010	Multi-PC TOS, Asym D-1946+He	-30	-4
02A	VMP - 6-7391	0000000043	11/9/09	10511102		-30	-4
03A	VMP - 7-5	0000000232	11/9/09	11451215		-30	-5
04A	VMP - 7-13.5	0000000439	11/9/09	12521310		-30	-3
05A	VMP - 7-29.5	0000000369	11/9/09	13551413		-30	-4
06A	VMP - 7-38	0000000071	11/9/09	15111541		-30	-5

Relinquished by: (signature) [Signature] Date/Time 11/11/09 1700
 Received by: (signature) [Signature] Date/Time _____
 Notes: Hebin used as tracer gas
 Relinquished by: (signature) [Signature] Date/Time _____
 Received by: (signature) Monica Garber AT 11/10/09 0900
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Lab Use Only
 Shipper Name: FedEx Air Bill # _____
 Condition: Good Temp (°C) NA
 Custody Seals Intact? Yes No
 Work Order # 0911275
MB w/dlxg



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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Austin Scott (Air Toxics) / Self Admin (URS)
 Collected by: (Print and Sign) Kelly Hunt
 Company URS Corporation Email stevens_ahong@urscorp.com
 Address 1001 Highway 142, Box 60, Suite 300 City St. Louis State MO Zip 63110
 Phone 314 489-0100 Fax 314 479-0462

Project Info:
 P.O. # _____
 Project # 2152475.0005
 Project Name Program Dissolved Phase
 Turn Around Time: Normal Rush
 specify _____
 Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
OTA	VMP - 8-5	0000003320	11/10/09	0905/0918	<u>number 80-15, ASTM D-1946 rHe</u>	-30	-5		
OSA	VMP - 8-9.5	0000000669	11/10/09	0950/1011		-30	-4.5		
OSA	VMP - 8-23.5	0000002626	11/10/09	1051/1111		-30	-5		
IDA	VMP - 9-38.5	0000000835	11/10/09	1333/1354		-30	-3		
UA	VMP - 9-25.5	0000002704	11/10/09	1439/1455		-30	-3		
VPA	VMP - 9-25.5P	0000000728	11/10/09	1439/1504		-30	-6		

Relinquished by: (signature) [Signature] Date/Time 11/16/09 1700
 Received by: (signature) FedEx Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) Monica Groben AL111209900 Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Notes: Helium used as tracer gas

Lab Use Only
 Shipper Name FedEx
 Air Bill # _____
 Temp (°C) NA
 Condition Good
 Custody Seals Intact? Yes No
 Work Order # 0911275



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FOLSOM, CA 95630-4719
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Page 3 of 3

Project Manager Archie Scott (Air Toxics) Scott Adams (OPS)
 Collected by: (Print and Sign) Kelly Hunt Kelly A
 Company UPS Corporation Email thunt@airtoxics.com
 Address 301 Highway Plaza Dr. Suite 200 City St. Louis State MO Zip 63160
 Phone 314 429-0100 Fax 314 429-0462

Project Info:
 P.O. # _____
 Project # 21567175.00005
 Project Name Perkins Disposal Phase

Turn Around Time:
 Normal
 Rush
 specify _____

Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: N₂ He _____

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
13A	VMP-9-11.5	0000005864	11/11/09	0843-0916	Mut. P. 90-15, ASTM D-946+He	-30	-9
14A	VMP-9-5	0000003915	11/11/09	0949-1006		-30	-4
15A	VMP-10-5	0000002514	11/11/09	1207-1225		-30	-2
16A	VMP-10-10	0000002085	11/11/09	1310-1336		-30	-5
17A	VMP-10-20	0000002733	11/11/09	1413-1431		-30	-3.5
18A	VMP-10-20-D	0000003761	11/11/09	1413-1444		-30	-6

Relinquished by: (signature) [Signature] Date/Time 11/11/09 1700
 Received by: (signature) Fed Ex Date/Time _____
Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) Monica Egegen Date/Time AT 11/11/09 900
Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Notes: Helium used as tracer gas

Lab Use Only

Shipper Name: Fed Ex Air Bill #: _____ Temp (°C): NA Condition: Good Custody Seals Intact? (Yes) No None Work Order #: 0911275

Roxana Data Review

Laboratory SDG: 0911391A

Reviewer: Tony Sedlacek

Date Reviewed: 1/11/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-10-30	VMP-12-5
VMP-12-11.5	VMP-12-25
VMP-12-39	VMP-13-5
VMP-14-11.5	VMP-14-20
VMP-14-29	VMP-13-10.5
VMP-13-10.5-D	VMP-13-21.5
VMP-13-29.5	VMP-11-5
VMP-11-8	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that VOC LCS and CCV recoveries were outside evaluation criteria. Samples were diluted due to high levels of target analytes. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated there was a sample ID discrepancy between the COC and sample label for summa canister VMP-13-21.5. The laboratory contacted URS and was directed that the sample ID on the COC was correct. The sample ID discrepancy was resolved prior to sample analysis. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
0911391A-18A	VOCs	Ethanol	143	N/A	60-140
0911391A-18A	VOCs	Hexachlorobutadiene	135	N/A	70-130
0911391A-18C	VOCs	1,2,4-Trichlorobenzene	63	N/A	70-130

Analytical data that required qualification based on LCS data are included in the table below. The compound Hexachlorobutadiene was reported nondetect in all sample associated with the LCS recovery above evaluation criteria, indicating a possible high bias, and did not require qualification.

Field ID	Parameter	Analyte	Qualification
VMP-11-8	VOCs	Ethanol	J
VMP-12-5	VOCs	1,2,4-Trichlorobenzene	UJ
VMP-12-11.5	VOCs	1,2,4-Trichlorobenzene	UJ
VMP-13-10.5-D	VOCs	1,2,4-Trichlorobenzene	UJ
VMP-13-21.5	VOCs	1,2,4-Trichlorobenzene	UJ
VMP-13-29.5	VOCs	1,2,4-Trichlorobenzene	UJ

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No, MS/MSD samples are not collected for Method TO-15 since spiking material is unable to be added to the summa canister.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

Yes, sample VMP-11-5 was duplicated and analyzed for VOCs.

Were laboratory duplicate sample RPDs within criteria?

Yes

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-13-10.5	VMP-13-10.5-D

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes

The continuing calibration verification (CCV) recovery for alpha-Chlorotoluene (131%) was outside evaluation criteria (70-130%) in CCV 0911391A-17A. The compound alpha-Chlorotoluene was nondetect in all samples associated with CCV 0911391A-17A; therefore, no qualification of data was required. In addition, the CCV recovery for 1,2,4-Trichlorobenzene (63%) was outside evaluation criteria (70-130%) in CCV 0911391A-17B. Analytical data that required qualification based on CCV data are included in the table below.

Sample ID	Analyte	New RL	Qualification
VMP-12-25	1,2,4-Trichlorobenzene	-	UJ
VMP-12-39	1,2,4-Trichlorobenzene	-	UJ
VMP-13-5	1,2,4-Trichlorobenzene	-	UJ
VMP-14-11.5	1,2,4-Trichlorobenzene	-	UJ
VMP-14-20	1,2,4-Trichlorobenzene	-	UJ
VMP-14-29	1,2,4-Trichlorobenzene	-	UJ
VMP-13-10.5	1,2,4-Trichlorobenzene	-	UJ

12/10/2009
Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562175.00005
Workorder #: 0911391A

Dear Mr. Mike Miller

The following report includes the data for the above referenced project for sample(s) received on 11/18/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 0911391A

Work Order Summary

CLIENT: Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-566-3073

P.O. #

FAX:

PROJECT # 21562175.00005 Roxana Dissolved

DATE RECEIVED: 11/18/2009

CONTACT: Phase
Ausha Scott

DATE COMPLETED: 12/10/2009

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-10-30	Modified TO-15	5.6 "Hg	15 psi
02A	VMP-12-5	Modified TO-15	6.0 "Hg	15 psi
03A	VMP-12-11.5	Modified TO-15	2.4 "Hg	15 psi
04A	VMP-12-25	Modified TO-15	3.2 "Hg	15 psi
05A	VMP-12-39	Modified TO-15	4.4 "Hg	15 psi
06A	VMP-13-5	Modified TO-15	5.0 "Hg	15 psi
07A	VMP-14-11.5	Modified TO-15	5.4 "Hg	15 psi
08A	VMP-14-20	Modified TO-15	4.5 "Hg	15 psi
09A	VMP-14-29	Modified TO-15	4.0 "Hg	15 psi
10A	VMP-13-10.5	Modified TO-15	4.5 "Hg	15 psi
11A	VMP-13-10.5-D	Modified TO-15	5.5 "Hg	15 psi
12A	VMP-13-21.5	Modified TO-15	1.5 "Hg	15 psi
13A	VMP-13-29.5	Modified TO-15	4.5 "Hg	15 psi
14A	VMP-11-5	Modified TO-15	3.0 "Hg	15 psi
14AA	VMP-11-5 Lab Duplicate	Modified TO-15	3.0 "Hg	15 psi
15A	VMP-11-8	Modified TO-15	5.5 "Hg	15 psi
16A	Lab Blank	Modified TO-15	NA	NA

Continued on next page

WORK ORDER #: 0911391A

Work Order Summary

CLIENT:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-566-3073	P.O. #	
FAX:		PROJECT #	21562175.00005 Roxana Dissolved
DATE RECEIVED:	11/18/2009	CONTACT:	Phase Ausha Scott
DATE COMPLETED:	12/10/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
16B	Lab Blank	Modified TO-15	NA	NA
16C	Lab Blank	Modified TO-15	NA	NA
17A	CCV	Modified TO-15	NA	NA
17B	CCV	Modified TO-15	NA	NA
17C	CCV	Modified TO-15	NA	NA
18A	LCS	Modified TO-15	NA	NA
18B	LCS	Modified TO-15	NA	NA
18C	LCS	Modified TO-15	NA	NA

CERTIFIED BY:

Sandra D. Freeman

Laboratory Director

DATE: 12/10/09

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15
URS Corporation
Workorder# 0911391A**

Fifteen 1 Liter Summa Canister samples were received on November 18, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Daily CCV	<= 30% Difference	<= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) information for sample VMP-13-21.5 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-10-30

Lab ID#: 0911391A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1.2	1.5	4.4	5.2
Chloroform	1.2	3.3	6.0	16
Benzene	1.2	60	4.0	190

Client Sample ID: VMP-12-5

Lab ID#: 0911391A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	3200	58000	11000	200000
Cyclohexane	3200	160000	11000	570000
2,2,4-Trimethylpentane	3200	320000	15000	1500000
Benzene	3200	2400000	10000	7500000
Heptane	3200	4200	13000	17000

Client Sample ID: VMP-12-11.5

Lab ID#: 0911391A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	5500	65000	19000	230000
Cyclohexane	5500	160000	19000	560000
2,2,4-Trimethylpentane	5500	320000	26000	1500000
Benzene	5500	2600000	18000	8400000

Client Sample ID: VMP-12-25

Lab ID#: 0911391A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	11000	340000	40000	1200000
Cyclohexane	11000	200000	39000	680000
2,2,4-Trimethylpentane	11000	330000	53000	1600000
Benzene	11000	5600000	36000	18000000
Heptane	11000	53000	46000	220000

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-12-39

Lab ID#: 0911391A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	12000	390000	42000	1400000
Cyclohexane	12000	210000	41000	710000
2,2,4-Trimethylpentane	12000	320000	55000	1500000
Benzene	12000	8000000	38000	26000000
Heptane	12000	89000	48000	370000
Ethyl Benzene	12000	16000	51000	71000

Client Sample ID: VMP-13-5

Lab ID#: 0911391A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	2400	6000	11000	28000
Benzene	2400	1800000	7700	5900000

Client Sample ID: VMP-14-11.5

Lab ID#: 0911391A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	310	110000	1100	380000
Cyclohexane	310	52000	1000	180000
2,2,4-Trimethylpentane	310	44000	1400	200000
Benzene	310	170000	980	550000
Heptane	310	10000	1300	43000

Client Sample ID: VMP-14-20

Lab ID#: 0911391A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	12000	100000	42000	350000
Cyclohexane	12000	46000	41000	160000
2,2,4-Trimethylpentane	12000	34000	56000	160000
Benzene	12000	8100000	38000	26000000
Heptane	12000	16000	49000	67000

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-14-29

Lab ID#: 0911391A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	47000	260000	160000	900000
Cyclohexane	47000	100000	160000	350000
2,2,4-Trimethylpentane	47000	80000	220000	370000
Benzene	47000	25000000	150000	79000000
Heptane	47000	54000	190000	220000

Client Sample ID: VMP-13-10.5

Lab ID#: 0911391A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	300	560	1400	2600
Benzene	300	160000	950	500000

Client Sample ID: VMP-13-10.5-D

Lab ID#: 0911391A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	310	600	1400	2800
Benzene	310	180000	990	570000

Client Sample ID: VMP-13-21.5

Lab ID#: 0911391A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	15000	7600000	48000	24000000

Client Sample ID: VMP-13-29.5

Lab ID#: 0911391A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	30000	28000000	95000	90000000
Toluene	30000	31000	110000	120000

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-11-5

Lab ID#: 0911391A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	9.0	1500	28	4900

Client Sample ID: VMP-11-5 Lab Duplicate

Lab ID#: 0911391A-14AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	9.0	1400	28	4500

Client Sample ID: VMP-11-8

Lab ID#: 0911391A-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.9	72	9.3	140
Acetone	4.9	17	12	40
2-Propanol	4.9	13	12	32
2-Butanone (Methyl Ethyl Ketone)	1.2	2.4	3.6	6.9
Benzene	1.2	140	3.9	460

Client Sample ID: VMP-10-30

Lab ID#: 0911391A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112716	Date of Collection: 11/13/09 3:16:00 PM
Dil. Factor:	2.48	Date of Analysis: 11/27/09 04:15 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Freon 114	1.2	Not Detected	8.7	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	1.2	Not Detected	4.8	Not Detected
Chloroethane	1.2	Not Detected	3.3	Not Detected
Freon 11	1.2	Not Detected	7.0	Not Detected
Ethanol	5.0	Not Detected	9.3	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	1.2	Not Detected	3.9	Not Detected
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	1.2	Not Detected	4.3	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.5	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	1.5	4.4	5.2
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	Not Detected	3.6	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	3.3	6.0	16
1,1,1-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Cyclohexane	1.2	Not Detected	4.3	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.8	Not Detected
Benzene	1.2	60	4.0	190
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Heptane	1.2	Not Detected	5.1	Not Detected
Trichloroethene	1.2	Not Detected	6.7	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.1	Not Detected
Toluene	1.2	Not Detected	4.7	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected

Client Sample ID: VMP-10-30

Lab ID#: 0911391A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112716	Date of Collection:	11/13/09 3:16:00 PM
Dil. Factor:	2.48	Date of Analysis:	11/27/09 04:15 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
2-Hexanone	5.0	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
Propylbenzene	1.2	Not Detected	6.1	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	53	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: VMP-12-5

Lab ID#: 0911391A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112911	Date of Collection: 11/13/09 10:30:00 A
Dil. Factor:	632	Date of Analysis: 11/29/09 04:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3200	Not Detected	16000	Not Detected
Freon 114	3200	Not Detected	22000	Not Detected
Chloromethane	13000	Not Detected	26000	Not Detected
Vinyl Chloride	3200	Not Detected	8100	Not Detected
1,3-Butadiene	3200	Not Detected	7000	Not Detected
Bromomethane	3200	Not Detected	12000	Not Detected
Chloroethane	3200	Not Detected	8300	Not Detected
Freon 11	3200	Not Detected	18000	Not Detected
Ethanol	13000	Not Detected	24000	Not Detected
Freon 113	3200	Not Detected	24000	Not Detected
1,1-Dichloroethene	3200	Not Detected	12000	Not Detected
Acetone	13000	Not Detected	30000	Not Detected
2-Propanol	13000	Not Detected	31000	Not Detected
Carbon Disulfide	3200	Not Detected	9800	Not Detected
3-Chloropropene	13000	Not Detected	40000	Not Detected
Methylene Chloride	3200	Not Detected	11000	Not Detected
Methyl tert-butyl ether	3200	Not Detected	11000	Not Detected
trans-1,2-Dichloroethene	3200	Not Detected	12000	Not Detected
Hexane	3200	58000	11000	200000
1,1-Dichloroethane	3200	Not Detected	13000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3200	Not Detected	9300	Not Detected
cis-1,2-Dichloroethene	3200	Not Detected	12000	Not Detected
Tetrahydrofuran	3200	Not Detected	9300	Not Detected
Chloroform	3200	Not Detected	15000	Not Detected
1,1,1-Trichloroethane	3200	Not Detected	17000	Not Detected
Cyclohexane	3200	160000	11000	570000
Carbon Tetrachloride	3200	Not Detected	20000	Not Detected
2,2,4-Trimethylpentane	3200	320000	15000	1500000
Benzene	3200	2400000	10000	7500000
1,2-Dichloroethane	3200	Not Detected	13000	Not Detected
Heptane	3200	4200	13000	17000
Trichloroethene	3200	Not Detected	17000	Not Detected
1,2-Dichloropropane	3200	Not Detected	15000	Not Detected
1,4-Dioxane	13000	Not Detected	46000	Not Detected
Bromodichloromethane	3200	Not Detected	21000	Not Detected
cis-1,3-Dichloropropene	3200	Not Detected	14000	Not Detected
4-Methyl-2-pentanone	3200	Not Detected	13000	Not Detected
Toluene	3200	Not Detected	12000	Not Detected
trans-1,3-Dichloropropene	3200	Not Detected	14000	Not Detected



Client Sample ID: VMP-12-5

Lab ID#: 0911391A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112911	Date of Collection:	11/13/09 10:30:00 A
Dil. Factor:	632	Date of Analysis:	11/29/09 04:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	3200	Not Detected	17000	Not Detected
Tetrachloroethene	3200	Not Detected	21000	Not Detected
2-Hexanone	13000	Not Detected	52000	Not Detected
Dibromochloromethane	3200	Not Detected	27000	Not Detected
1,2-Dibromoethane (EDB)	3200	Not Detected	24000	Not Detected
Chlorobenzene	3200	Not Detected	14000	Not Detected
Ethyl Benzene	3200	Not Detected	14000	Not Detected
m,p-Xylene	3200	Not Detected	14000	Not Detected
o-Xylene	3200	Not Detected	14000	Not Detected
Styrene	3200	Not Detected	13000	Not Detected
Bromoform	3200	Not Detected	33000	Not Detected
Cumene	3200	Not Detected	16000	Not Detected
1,1,2,2-Tetrachloroethane	3200	Not Detected	22000	Not Detected
Propylbenzene	3200	Not Detected	16000	Not Detected
4-Ethyltoluene	3200	Not Detected	16000	Not Detected
1,3,5-Trimethylbenzene	3200	Not Detected	16000	Not Detected
1,2,4-Trimethylbenzene	3200	Not Detected	16000	Not Detected
1,3-Dichlorobenzene	3200	Not Detected	19000	Not Detected
1,4-Dichlorobenzene	3200	Not Detected	19000	Not Detected
alpha-Chlorotoluene	3200	Not Detected	16000	Not Detected
1,2-Dichlorobenzene	3200	Not Detected	19000	Not Detected
1,2,4-Trichlorobenzene	13000	Not Detected	94000	Not Detected
Hexachlorobutadiene	13000	Not Detected	130000	Not Detected

— "UJ"

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: VMP-12-11.5

Lab ID#: 0911391A-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112912	Date of Collection: 11/13/09 11:30:00 A
Dil. Factor:	1100	Date of Analysis: 11/29/09 04:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5500	Not Detected	27000	Not Detected
Freon 114	5500	Not Detected	38000	Not Detected
Chloromethane	22000	Not Detected	45000	Not Detected
Vinyl Chloride	5500	Not Detected	14000	Not Detected
1,3-Butadiene	5500	Not Detected	12000	Not Detected
Bromomethane	5500	Not Detected	21000	Not Detected
Chloroethane	5500	Not Detected	14000	Not Detected
Freon 11	5500	Not Detected	31000	Not Detected
Ethanol	22000	Not Detected	41000	Not Detected
Freon 113	5500	Not Detected	42000	Not Detected
1,1-Dichloroethene	5500	Not Detected	22000	Not Detected
Acetone	22000	Not Detected	52000	Not Detected
2-Propanol	22000	Not Detected	54000	Not Detected
Carbon Disulfide	5500	Not Detected	17000	Not Detected
3-Chloropropene	22000	Not Detected	69000	Not Detected
Methylene Chloride	5500	Not Detected	19000	Not Detected
Methyl tert-butyl ether	5500	Not Detected	20000	Not Detected
trans-1,2-Dichloroethene	5500	Not Detected	22000	Not Detected
Hexane	5500	65000	19000	230000
1,1-Dichloroethane	5500	Not Detected	22000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5500	Not Detected	16000	Not Detected
cis-1,2-Dichloroethene	5500	Not Detected	22000	Not Detected
Tetrahydrofuran	5500	Not Detected	16000	Not Detected
Chloroform	5500	Not Detected	27000	Not Detected
1,1,1-Trichloroethane	5500	Not Detected	30000	Not Detected
Cyclohexane	5500	160000	19000	560000
Carbon Tetrachloride	5500	Not Detected	35000	Not Detected
2,2,4-Trimethylpentane	5500	320000	26000	1500000
Benzene	5500	2600000	18000	8400000
1,2-Dichloroethane	5500	Not Detected	22000	Not Detected
Heptane	5500	Not Detected	22000	Not Detected
Trichloroethene	5500	Not Detected	30000	Not Detected
1,2-Dichloropropane	5500	Not Detected	25000	Not Detected
1,4-Dioxane	22000	Not Detected	79000	Not Detected
Bromodichloromethane	5500	Not Detected	37000	Not Detected
cis-1,3-Dichloropropene	5500	Not Detected	25000	Not Detected
4-Methyl-2-pentanone	5500	Not Detected	22000	Not Detected
Toluene	5500	Not Detected	21000	Not Detected
trans-1,3-Dichloropropene	5500	Not Detected	25000	Not Detected

Client Sample ID: VMP-12-11.5

Lab ID#: 0911391A-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112912	Date of Collection: 11/13/09 11:30:00 A
Dil. Factor:	1100	Date of Analysis: 11/29/09 04:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5500	Not Detected	30000	Not Detected
Tetrachloroethene	5500	Not Detected	37000	Not Detected
2-Hexanone	22000	Not Detected	90000	Not Detected
Dibromochloromethane	5500	Not Detected	47000	Not Detected
1,2-Dibromoethane (EDB)	5500	Not Detected	42000	Not Detected
Chlorobenzene	5500	Not Detected	25000	Not Detected
Ethyl Benzene	5500	Not Detected	24000	Not Detected
m,p-Xylene	5500	Not Detected	24000	Not Detected
o-Xylene	5500	Not Detected	24000	Not Detected
Styrene	5500	Not Detected	23000	Not Detected
Bromoform	5500	Not Detected	57000	Not Detected
Cumene	5500	Not Detected	27000	Not Detected
1,1,2,2-Tetrachloroethane	5500	Not Detected	38000	Not Detected
Propylbenzene	5500	Not Detected	27000	Not Detected
4-Ethyltoluene	5500	Not Detected	27000	Not Detected
1,3,5-Trimethylbenzene	5500	Not Detected	27000	Not Detected
1,2,4-Trimethylbenzene	5500	Not Detected	27000	Not Detected
1,3-Dichlorobenzene	5500	Not Detected	33000	Not Detected
1,4-Dichlorobenzene	5500	Not Detected	33000	Not Detected
alpha-Chlorotoluene	5500	Not Detected	28000	Not Detected
1,2-Dichlorobenzene	5500	Not Detected	33000	Not Detected
1,2,4-Trichlorobenzene	22000	Not Detected	160000	Not Detected
Hexachlorobutadiene	22000	Not Detected	230000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: VMP-12-25

Lab ID#: 0911391A-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112825	Date of Collection: 11/13/09 12:17:00 P
Dil. Factor:	2260	Date of Analysis: 11/28/09 06:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	11000	Not Detected	56000	Not Detected
Freon 114	11000	Not Detected	79000	Not Detected
Chloromethane	45000	Not Detected	93000	Not Detected
Vinyl Chloride	11000	Not Detected	29000	Not Detected
1,3-Butadiene	11000	Not Detected	25000	Not Detected
Bromomethane	11000	Not Detected	44000	Not Detected
Chloroethane	11000	Not Detected	30000	Not Detected
Freon 11	11000	Not Detected	63000	Not Detected
Ethanol	45000	Not Detected	85000	Not Detected
Freon 113	11000	Not Detected	87000	Not Detected
1,1-Dichloroethene	11000	Not Detected	45000	Not Detected
Acetone	45000	Not Detected	110000	Not Detected
2-Propanol	45000	Not Detected	110000	Not Detected
Carbon Disulfide	11000	Not Detected	35000	Not Detected
3-Chloropropene	45000	Not Detected	140000	Not Detected
Methylene Chloride	11000	Not Detected	39000	Not Detected
Methyl tert-butyl ether	11000	Not Detected	41000	Not Detected
trans-1,2-Dichloroethene	11000	Not Detected	45000	Not Detected
Hexane	11000	340000	40000	1200000
1,1-Dichloroethane	11000	Not Detected	46000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11000	Not Detected	33000	Not Detected
cis-1,2-Dichloroethene	11000	Not Detected	45000	Not Detected
Tetrahydrofuran	11000	Not Detected	33000	Not Detected
Chloroform	11000	Not Detected	55000	Not Detected
1,1,1-Trichloroethane	11000	Not Detected	62000	Not Detected
Cyclohexane	11000	200000	39000	680000
Carbon Tetrachloride	11000	Not Detected	71000	Not Detected
2,2,4-Trimethylpentane	11000	330000	53000	1600000
Benzene	11000	5600000	36000	18000000
1,2-Dichloroethane	11000	Not Detected	46000	Not Detected
Heptane	11000	53000	46000	220000
Trichloroethene	11000	Not Detected	61000	Not Detected
1,2-Dichloropropane	11000	Not Detected	52000	Not Detected
1,4-Dioxane	45000	Not Detected	160000	Not Detected
Bromodichloromethane	11000	Not Detected	76000	Not Detected
cis-1,3-Dichloropropene	11000	Not Detected	51000	Not Detected
4-Methyl-2-pentanone	11000	Not Detected	46000	Not Detected
Toluene	11000	Not Detected	42000	Not Detected
trans-1,3-Dichloropropene	11000	Not Detected	51000	Not Detected



Client Sample ID: VMP-12-25

Lab ID#: 0911391A-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112825	Date of Collection: 11/13/09 12:17:00 P
Dil. Factor:	2260	Date of Analysis: 11/28/09 06:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	11000	Not Detected	62000	Not Detected
Tetrachloroethene	11000	Not Detected	77000	Not Detected
2-Hexanone	45000	Not Detected	180000	Not Detected
Dibromochloromethane	11000	Not Detected	96000	Not Detected
1,2-Dibromoethane (EDB)	11000	Not Detected	87000	Not Detected
Chlorobenzene	11000	Not Detected	52000	Not Detected
Ethyl Benzene	11000	Not Detected	49000	Not Detected
m,p-Xylene	11000	Not Detected	49000	Not Detected
o-Xylene	11000	Not Detected	49000	Not Detected
Styrene	11000	Not Detected	48000	Not Detected
Bromoform	11000	Not Detected	120000	Not Detected
Cumene	11000	Not Detected	56000	Not Detected
1,1,2,2-Tetrachloroethane	11000	Not Detected	78000	Not Detected
Propylbenzene	11000	Not Detected	56000	Not Detected
4-Ethyltoluene	11000	Not Detected	56000	Not Detected
1,3,5-Trimethylbenzene	11000	Not Detected	56000	Not Detected
1,2,4-Trimethylbenzene	11000	Not Detected	56000	Not Detected
1,3-Dichlorobenzene	11000	Not Detected	68000	Not Detected
1,4-Dichlorobenzene	11000	Not Detected	68000	Not Detected
alpha-Chlorotoluene	11000	Not Detected	58000	Not Detected
1,2-Dichlorobenzene	11000	Not Detected	68000	Not Detected
1,2,4-Trichlorobenzene	45000	Not Detected UJ	340000	Not Detected UJ
Hexachlorobutadiene	45000	Not Detected	480000	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: VMP-12-39

Lab ID#: 0911391A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112826	Date of Collection: 11/13/09 1:17:00 PM
Dil. Factor:	2370	Date of Analysis: 11/28/09 07:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	12000	Not Detected	59000	Not Detected
Freon 114	12000	Not Detected	83000	Not Detected
Chloromethane	47000	Not Detected	98000	Not Detected
Vinyl Chloride	12000	Not Detected	30000	Not Detected
1,3-Butadiene	12000	Not Detected	26000	Not Detected
Bromomethane	12000	Not Detected	46000	Not Detected
Chloroethane	12000	Not Detected	31000	Not Detected
Freon 11	12000	Not Detected	66000	Not Detected
Ethanol	47000	Not Detected	89000	Not Detected
Freon 113	12000	Not Detected	91000	Not Detected
1,1-Dichloroethene	12000	Not Detected	47000	Not Detected
Acetone	47000	Not Detected	110000	Not Detected
2-Propanol	47000	Not Detected	120000	Not Detected
Carbon Disulfide	12000	Not Detected	37000	Not Detected
3-Chloropropene	47000	Not Detected	150000	Not Detected
Methylene Chloride	12000	Not Detected	41000	Not Detected
Methyl tert-butyl ether	12000	Not Detected	43000	Not Detected
trans-1,2-Dichloroethene	12000	Not Detected	47000	Not Detected
Hexane	12000	390000	42000	1400000
1,1-Dichloroethane	12000	Not Detected	48000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12000	Not Detected	35000	Not Detected
cis-1,2-Dichloroethene	12000	Not Detected	47000	Not Detected
Tetrahydrofuran	12000	Not Detected	35000	Not Detected
Chloroform	12000	Not Detected	58000	Not Detected
1,1,1-Trichloroethane	12000	Not Detected	65000	Not Detected
Cyclohexane	12000	210000	41000	710000
Carbon Tetrachloride	12000	Not Detected	74000	Not Detected
2,2,4-Trimethylpentane	12000	320000	55000	1500000
Benzene	12000	8000000	38000	26000000
1,2-Dichloroethane	12000	Not Detected	48000	Not Detected
Heptane	12000	89000	48000	370000
Trichloroethene	12000	Not Detected	64000	Not Detected
1,2-Dichloropropane	12000	Not Detected	55000	Not Detected
1,4-Dioxane	47000	Not Detected	170000	Not Detected
Bromodichloromethane	12000	Not Detected	79000	Not Detected
cis-1,3-Dichloropropene	12000	Not Detected	54000	Not Detected
4-Methyl-2-pentanone	12000	Not Detected	48000	Not Detected
Toluene	12000	Not Detected	45000	Not Detected
trans-1,3-Dichloropropene	12000	Not Detected	54000	Not Detected



Client Sample ID: VMP-12-39

Lab ID#: 0911391A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112826	Date of Collection: 11/13/09 1:17:00 PM
Dil. Factor:	2370	Date of Analysis: 11/28/09 07:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	12000	Not Detected	65000	Not Detected
Tetrachloroethene	12000	Not Detected	80000	Not Detected
2-Hexanone	47000	Not Detected	190000	Not Detected
Dibromochloromethane	12000	Not Detected	100000	Not Detected
1,2-Dibromoethane (EDB)	12000	Not Detected	91000	Not Detected
Chlorobenzene	12000	Not Detected	54000	Not Detected
Ethyl Benzene	12000	16000	51000	71000
m,p-Xylene	12000	Not Detected	51000	Not Detected
o-Xylene	12000	Not Detected	51000	Not Detected
Styrene	12000	Not Detected	50000	Not Detected
Bromoform	12000	Not Detected	120000	Not Detected
Cumene	12000	Not Detected	58000	Not Detected
1,1,2,2-Tetrachloroethane	12000	Not Detected	81000	Not Detected
Propylbenzene	12000	Not Detected	58000	Not Detected
4-Ethyltoluene	12000	Not Detected	58000	Not Detected
1,3,5-Trimethylbenzene	12000	Not Detected	58000	Not Detected
1,2,4-Trimethylbenzene	12000	Not Detected	58000	Not Detected
1,3-Dichlorobenzene	12000	Not Detected	71000	Not Detected
1,4-Dichlorobenzene	12000	Not Detected	71000	Not Detected
alpha-Chlorotoluene	12000	Not Detected	61000	Not Detected
1,2-Dichlorobenzene	12000	Not Detected	71000	Not Detected
1,2,4-Trichlorobenzene	47000	Not Detected UJ	350000	Not Detected UJ "UJ"
Hexachlorobutadiene	47000	Not Detected	500000	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	105	70-130



Client Sample ID: VMP-13-5

Lab ID#: 0911391A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112827	Date of Collection:	11/16/09 3:44:00 PM
Dil. Factor:	484	Date of Analysis:	11/28/09 07:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2400	Not Detected	12000	Not Detected
Freon 114	2400	Not Detected	17000	Not Detected
Chloromethane	9700	Not Detected	20000	Not Detected
Vinyl Chloride	2400	Not Detected	6200	Not Detected
1,3-Butadiene	2400	Not Detected	5400	Not Detected
Bromomethane	2400	Not Detected	9400	Not Detected
Chloroethane	2400	Not Detected	6400	Not Detected
Freon 11	2400	Not Detected	14000	Not Detected
Ethanol	9700	Not Detected	18000	Not Detected
Freon 113	2400	Not Detected	18000	Not Detected
1,1-Dichloroethene	2400	Not Detected	9600	Not Detected
Acetone	9700	Not Detected	23000	Not Detected
2-Propanol	9700	Not Detected	24000	Not Detected
Carbon Disulfide	2400	Not Detected	7500	Not Detected
3-Chloropropene	9700	Not Detected	30000	Not Detected
Methylene Chloride	2400	Not Detected	8400	Not Detected
Methyl tert-butyl ether	2400	Not Detected	8700	Not Detected
trans-1,2-Dichloroethene	2400	Not Detected	9600	Not Detected
Hexane	2400	Not Detected	8500	Not Detected
1,1-Dichloroethane	2400	Not Detected	9800	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2400	Not Detected	7100	Not Detected
cis-1,2-Dichloroethene	2400	Not Detected	9600	Not Detected
Tetrahydrofuran	2400	Not Detected	7100	Not Detected
Chloroform	2400	Not Detected	12000	Not Detected
1,1,1-Trichloroethane	2400	Not Detected	13000	Not Detected
Cyclohexane	2400	Not Detected	8300	Not Detected
Carbon Tetrachloride	2400	Not Detected	15000	Not Detected
2,2,4-Trimethylpentane	2400	6000	11000	28000
Benzene	2400	1800000	7700	5900000
1,2-Dichloroethane	2400	Not Detected	9800	Not Detected
Heptane	2400	Not Detected	9900	Not Detected
Trichloroethene	2400	Not Detected	13000	Not Detected
1,2-Dichloropropane	2400	Not Detected	11000	Not Detected
1,4-Dioxane	9700	Not Detected	35000	Not Detected
Bromodichloromethane	2400	Not Detected	16000	Not Detected
cis-1,3-Dichloropropene	2400	Not Detected	11000	Not Detected
4-Methyl-2-pentanone	2400	Not Detected	9900	Not Detected
Toluene	2400	Not Detected	9100	Not Detected
trans-1,3-Dichloropropene	2400	Not Detected	11000	Not Detected



Client Sample ID: VMP-13-5

Lab ID#: 0911391A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112827	Date of Collection:	11/16/09 3:44:00 PM
Dil. Factor:	484	Date of Analysis:	11/28/09 07:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	2400	Not Detected	13000	Not Detected
Tetrachloroethene	2400	Not Detected	16000	Not Detected
2-Hexanone	9700	Not Detected	40000	Not Detected
Dibromochloromethane	2400	Not Detected	21000	Not Detected
1,2-Dibromoethane (EDB)	2400	Not Detected	18000	Not Detected
Chlorobenzene	2400	Not Detected	11000	Not Detected
Ethyl Benzene	2400	Not Detected	10000	Not Detected
m,p-Xylene	2400	Not Detected	10000	Not Detected
o-Xylene	2400	Not Detected	10000	Not Detected
Styrene	2400	Not Detected	10000	Not Detected
Bromoform	2400	Not Detected	25000	Not Detected
Cumene	2400	Not Detected	12000	Not Detected
1,1,2,2-Tetrachloroethane	2400	Not Detected	17000	Not Detected
Propylbenzene	2400	Not Detected	12000	Not Detected
4-Ethyltoluene	2400	Not Detected	12000	Not Detected
1,3,5-Trimethylbenzene	2400	Not Detected	12000	Not Detected
1,2,4-Trimethylbenzene	2400	Not Detected	12000	Not Detected
1,3-Dichlorobenzene	2400	Not Detected	14000	Not Detected
1,4-Dichlorobenzene	2400	Not Detected	14000	Not Detected
alpha-Chlorotoluene	2400	Not Detected	12000	Not Detected
1,2-Dichlorobenzene	2400	Not Detected	14000	Not Detected
1,2,4-Trichlorobenzene	9700	Not Detected UJ	72000	Not Detected 卍 "UJ"
Hexachlorobutadiene	9700	Not Detected	100000	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: VMP-14-11.5

Lab ID#: 0911391A-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112828	Date of Collection: 11/16/09 10:19:00 A
Dil. Factor:	61.5	Date of Analysis: 11/28/09 07:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	310	Not Detected	1500	Not Detected
Freon 114	310	Not Detected	2100	Not Detected
Chloromethane	1200	Not Detected	2500	Not Detected
Vinyl Chloride	310	Not Detected	790	Not Detected
1,3-Butadiene	310	Not Detected	680	Not Detected
Bromomethane	310	Not Detected	1200	Not Detected
Chloroethane	310	Not Detected	810	Not Detected
Freon 11	310	Not Detected	1700	Not Detected
Ethanol	1200	Not Detected	2300	Not Detected
Freon 113	310	Not Detected	2400	Not Detected
1,1-Dichloroethene	310	Not Detected	1200	Not Detected
Acetone	1200	Not Detected	2900	Not Detected
2-Propanol	1200	Not Detected	3000	Not Detected
Carbon Disulfide	310	Not Detected	960	Not Detected
3-Chloropropene	1200	Not Detected	3800	Not Detected
Methylene Chloride	310	Not Detected	1100	Not Detected
Methyl tert-butyl ether	310	Not Detected	1100	Not Detected
trans-1,2-Dichloroethene	310	Not Detected	1200	Not Detected
Hexane	310	110000	1100	380000
1,1-Dichloroethane	310	Not Detected	1200	Not Detected
2-Butanone (Methyl Ethyl Ketone)	310	Not Detected	910	Not Detected
cis-1,2-Dichloroethene	310	Not Detected	1200	Not Detected
Tetrahydrofuran	310	Not Detected	910	Not Detected
Chloroform	310	Not Detected	1500	Not Detected
1,1,1-Trichloroethane	310	Not Detected	1700	Not Detected
Cyclohexane	310	52000	1000	180000
Carbon Tetrachloride	310	Not Detected	1900	Not Detected
2,2,4-Trimethylpentane	310	44000	1400	200000
Benzene	310	170000	980	550000
1,2-Dichloroethane	310	Not Detected	1200	Not Detected
Heptane	310	10000	1300	43000
Trichloroethene	310	Not Detected	1600	Not Detected
1,2-Dichloropropane	310	Not Detected	1400	Not Detected
1,4-Dioxane	1200	Not Detected	4400	Not Detected
Bromodichloromethane	310	Not Detected	2100	Not Detected
cis-1,3-Dichloropropene	310	Not Detected	1400	Not Detected
4-Methyl-2-pentanone	310	Not Detected	1200	Not Detected
Toluene	310	Not Detected	1200	Not Detected
trans-1,3-Dichloropropene	310	Not Detected	1400	Not Detected



Client Sample ID: VMP-14-11.5

Lab ID#: 0911391A-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112828	Date of Collection: 11/16/09 10:19:00 A
Dil. Factor:	61.5	Date of Analysis: 11/28/09 07:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	310	Not Detected	1700	Not Detected
Tetrachloroethene	310	Not Detected	2100	Not Detected
2-Hexanone	1200	Not Detected	5000	Not Detected
Dibromochloromethane	310	Not Detected	2600	Not Detected
1,2-Dibromoethane (EDB)	310	Not Detected	2400	Not Detected
Chlorobenzene	310	Not Detected	1400	Not Detected
Ethyl Benzene	310	Not Detected	1300	Not Detected
m,p-Xylene	310	Not Detected	1300	Not Detected
o-Xylene	310	Not Detected	1300	Not Detected
Styrene	310	Not Detected	1300	Not Detected
Bromoform	310	Not Detected	3200	Not Detected
Cumene	310	Not Detected	1500	Not Detected
1,1,2,2-Tetrachloroethane	310	Not Detected	2100	Not Detected
Propylbenzene	310	Not Detected	1500	Not Detected
4-Ethyltoluene	310	Not Detected	1500	Not Detected
1,3,5-Trimethylbenzene	310	Not Detected	1500	Not Detected
1,2,4-Trimethylbenzene	310	Not Detected	1500	Not Detected
1,3-Dichlorobenzene	310	Not Detected	1800	Not Detected
1,4-Dichlorobenzene	310	Not Detected	1800	Not Detected
alpha-Chlorotoluene	310	Not Detected	1600	Not Detected
1,2-Dichlorobenzene	310	Not Detected	1800	Not Detected
1,2,4-Trichlorobenzene	1200	Not Detected UJ	9100	Not Detected 卍 "UJ"
Hexachlorobutadiene	1200	Not Detected	13000	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	129	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: VMP-14-20

Lab ID#: 0911391A-08A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112829	Date of Collection: 11/16/09 11:53:00 A
Dil. Factor:	2380	Date of Analysis: 11/28/09 08:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	12000	Not Detected	59000	Not Detected
Freon 114	12000	Not Detected	83000	Not Detected
Chloromethane	48000	Not Detected	98000	Not Detected
Vinyl Chloride	12000	Not Detected	30000	Not Detected
1,3-Butadiene	12000	Not Detected	26000	Not Detected
Bromomethane	12000	Not Detected	46000	Not Detected
Chloroethane	12000	Not Detected	31000	Not Detected
Freon 11	12000	Not Detected	67000	Not Detected
Ethanol	48000	Not Detected	90000	Not Detected
Freon 113	12000	Not Detected	91000	Not Detected
1,1-Dichloroethene	12000	Not Detected	47000	Not Detected
Acetone	48000	Not Detected	110000	Not Detected
2-Propanol	48000	Not Detected	120000	Not Detected
Carbon Disulfide	12000	Not Detected	37000	Not Detected
3-Chloropropene	48000	Not Detected	150000	Not Detected
Methylene Chloride	12000	Not Detected	41000	Not Detected
Methyl tert-butyl ether	12000	Not Detected	43000	Not Detected
trans-1,2-Dichloroethene	12000	Not Detected	47000	Not Detected
Hexane	12000	100000	42000	350000
1,1-Dichloroethane	12000	Not Detected	48000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12000	Not Detected	35000	Not Detected
cis-1,2-Dichloroethene	12000	Not Detected	47000	Not Detected
Tetrahydrofuran	12000	Not Detected	35000	Not Detected
Chloroform	12000	Not Detected	58000	Not Detected
1,1,1-Trichloroethane	12000	Not Detected	65000	Not Detected
Cyclohexane	12000	46000	41000	160000
Carbon Tetrachloride	12000	Not Detected	75000	Not Detected
2,2,4-Trimethylpentane	12000	34000	56000	160000
Benzene	12000	8100000	38000	26000000
1,2-Dichloroethane	12000	Not Detected	48000	Not Detected
Heptane	12000	16000	49000	67000
Trichloroethene	12000	Not Detected	64000	Not Detected
1,2-Dichloropropane	12000	Not Detected	55000	Not Detected
1,4-Dioxane	48000	Not Detected	170000	Not Detected
Bromodichloromethane	12000	Not Detected	80000	Not Detected
cis-1,3-Dichloropropene	12000	Not Detected	54000	Not Detected
4-Methyl-2-pentanone	12000	Not Detected	49000	Not Detected
Toluene	12000	Not Detected	45000	Not Detected
trans-1,3-Dichloropropene	12000	Not Detected	54000	Not Detected



Client Sample ID: VMP-14-20

Lab ID#: 0911391A-08A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112829	Date of Collection:	11/16/09 11:53:00 A
Dil. Factor:	2380	Date of Analysis:	11/28/09 08:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	12000	Not Detected	65000	Not Detected
Tetrachloroethene	12000	Not Detected	81000	Not Detected
2-Hexanone	48000	Not Detected	190000	Not Detected
Dibromochloromethane	12000	Not Detected	100000	Not Detected
1,2-Dibromoethane (EDB)	12000	Not Detected	91000	Not Detected
Chlorobenzene	12000	Not Detected	55000	Not Detected
Ethyl Benzene	12000	Not Detected	52000	Not Detected
m,p-Xylene	12000	Not Detected	52000	Not Detected
o-Xylene	12000	Not Detected	52000	Not Detected
Styrene	12000	Not Detected	51000	Not Detected
Bromoform	12000	Not Detected	120000	Not Detected
Cumene	12000	Not Detected	58000	Not Detected
1,1,2,2-Tetrachloroethane	12000	Not Detected	82000	Not Detected
Propylbenzene	12000	Not Detected	58000	Not Detected
4-Ethyltoluene	12000	Not Detected	58000	Not Detected
1,3,5-Trimethylbenzene	12000	Not Detected	58000	Not Detected
1,2,4-Trimethylbenzene	12000	Not Detected	58000	Not Detected
1,3-Dichlorobenzene	12000	Not Detected	72000	Not Detected
1,4-Dichlorobenzene	12000	Not Detected	72000	Not Detected
alpha-Chlorotoluene	12000	Not Detected	62000	Not Detected
1,2-Dichlorobenzene	12000	Not Detected	72000	Not Detected
1,2,4-Trichlorobenzene	48000	Not Detected UJ	350000	Not Detected UJ
Hexachlorobutadiene	48000	Not Detected	510000	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: VMP-14-29

Lab ID#: 0911391A-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112831	Date of Collection:	11/16/09 1:44:00 PM
Dil. Factor:	9320	Date of Analysis:	11/28/09 09:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	47000	Not Detected	230000	Not Detected
Freon 114	47000	Not Detected	320000	Not Detected
Chloromethane	190000	Not Detected	380000	Not Detected
Vinyl Chloride	47000	Not Detected	120000	Not Detected
1,3-Butadiene	47000	Not Detected	100000	Not Detected
Bromomethane	47000	Not Detected	180000	Not Detected
Chloroethane	47000	Not Detected	120000	Not Detected
Freon 11	47000	Not Detected	260000	Not Detected
Ethanol	190000	Not Detected	350000	Not Detected
Freon 113	47000	Not Detected	360000	Not Detected
1,1-Dichloroethene	47000	Not Detected	180000	Not Detected
Acetone	190000	Not Detected	440000	Not Detected
2-Propanol	190000	Not Detected	460000	Not Detected
Carbon Disulfide	47000	Not Detected	140000	Not Detected
3-Chloropropene	190000	Not Detected	580000	Not Detected
Methylene Chloride	47000	Not Detected	160000	Not Detected
Methyl tert-butyl ether	47000	Not Detected	170000	Not Detected
trans-1,2-Dichloroethene	47000	Not Detected	180000	Not Detected
Hexane	47000	260000	160000	900000
1,1-Dichloroethane	47000	Not Detected	190000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	47000	Not Detected	140000	Not Detected
cis-1,2-Dichloroethene	47000	Not Detected	180000	Not Detected
Tetrahydrofuran	47000	Not Detected	140000	Not Detected
Chloroform	47000	Not Detected	230000	Not Detected
1,1,1-Trichloroethane	47000	Not Detected	250000	Not Detected
Cyclohexane	47000	100000	160000	350000
Carbon Tetrachloride	47000	Not Detected	290000	Not Detected
2,2,4-Trimethylpentane	47000	80000	220000	370000
Benzene	47000	25000000	150000	79000000
1,2-Dichloroethane	47000	Not Detected	190000	Not Detected
Heptane	47000	54000	190000	220000
Trichloroethene	47000	Not Detected	250000	Not Detected
1,2-Dichloropropane	47000	Not Detected	220000	Not Detected
1,4-Dioxane	190000	Not Detected	670000	Not Detected
Bromodichloromethane	47000	Not Detected	310000	Not Detected
cis-1,3-Dichloropropene	47000	Not Detected	210000	Not Detected
4-Methyl-2-pentanone	47000	Not Detected	190000	Not Detected
Toluene	47000	Not Detected	180000	Not Detected
trans-1,3-Dichloropropene	47000	Not Detected	210000	Not Detected



Client Sample ID: VMP-14-29

Lab ID#: 0911391A-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112831	Date of Collection:	11/16/09 1:44:00 PM
Dil. Factor:	9320	Date of Analysis:	11/28/09 09:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	47000	Not Detected	250000	Not Detected
Tetrachloroethene	47000	Not Detected	320000	Not Detected
2-Hexanone	190000	Not Detected	760000	Not Detected
Dibromochloromethane	47000	Not Detected	400000	Not Detected
1,2-Dibromoethane (EDB)	47000	Not Detected	360000	Not Detected
Chlorobenzene	47000	Not Detected	210000	Not Detected
Ethyl Benzene	47000	Not Detected	200000	Not Detected
m,p-Xylene	47000	Not Detected	200000	Not Detected
o-Xylene	47000	Not Detected	200000	Not Detected
Styrene	47000	Not Detected	200000	Not Detected
Bromoform	47000	Not Detected	480000	Not Detected
Cumene	47000	Not Detected	230000	Not Detected
1,1,2,2-Tetrachloroethane	47000	Not Detected	320000	Not Detected
Propylbenzene	47000	Not Detected	230000	Not Detected
4-Ethyltoluene	47000	Not Detected	230000	Not Detected
1,3,5-Trimethylbenzene	47000	Not Detected	230000	Not Detected
1,2,4-Trimethylbenzene	47000	Not Detected	230000	Not Detected
1,3-Dichlorobenzene	47000	Not Detected	280000	Not Detected
1,4-Dichlorobenzene	47000	Not Detected	280000	Not Detected
alpha-Chlorotoluene	47000	Not Detected	240000	Not Detected
1,2-Dichlorobenzene	47000	Not Detected	280000	Not Detected
1,2,4-Trichlorobenzene	190000	Not Detected UJ	1400000	Not Detected UJ "UJ"
Hexachlorobutadiene	190000	Not Detected	2000000	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: VMP-13-10.5

Lab ID#: 0911391A-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112832	Date of Collection: 11/17/09 9:12:00 AM
Dil. Factor:	59.5	Date of Analysis: 11/28/09 09:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	300	Not Detected	1500	Not Detected
Freon 114	300	Not Detected	2100	Not Detected
Chloromethane	1200	Not Detected	2400	Not Detected
Vinyl Chloride	300	Not Detected	760	Not Detected
1,3-Butadiene	300	Not Detected	660	Not Detected
Bromomethane	300	Not Detected	1200	Not Detected
Chloroethane	300	Not Detected	780	Not Detected
Freon 11	300	Not Detected	1700	Not Detected
Ethanol	1200	Not Detected	2200	Not Detected
Freon 113	300	Not Detected	2300	Not Detected
1,1-Dichloroethene	300	Not Detected	1200	Not Detected
Acetone	1200	Not Detected	2800	Not Detected
2-Propanol	1200	Not Detected	2900	Not Detected
Carbon Disulfide	300	Not Detected	930	Not Detected
3-Chloropropene	1200	Not Detected	3700	Not Detected
Methylene Chloride	300	Not Detected	1000	Not Detected
Methyl tert-butyl ether	300	Not Detected	1100	Not Detected
trans-1,2-Dichloroethene	300	Not Detected	1200	Not Detected
Hexane	300	Not Detected	1000	Not Detected
1,1-Dichloroethane	300	Not Detected	1200	Not Detected
2-Butanone (Methyl Ethyl Ketone)	300	Not Detected	880	Not Detected
cis-1,2-Dichloroethene	300	Not Detected	1200	Not Detected
Tetrahydrofuran	300	Not Detected	880	Not Detected
Chloroform	300	Not Detected	1400	Not Detected
1,1,1-Trichloroethane	300	Not Detected	1600	Not Detected
Cyclohexane	300	Not Detected	1000	Not Detected
Carbon Tetrachloride	300	Not Detected	1900	Not Detected
2,2,4-Trimethylpentane	300	560	1400	2600
Benzene	300	160000	950	500000
1,2-Dichloroethane	300	Not Detected	1200	Not Detected
Heptane	300	Not Detected	1200	Not Detected
Trichloroethene	300	Not Detected	1600	Not Detected
1,2-Dichloropropane	300	Not Detected	1400	Not Detected
1,4-Dioxane	1200	Not Detected	4300	Not Detected
Bromodichloromethane	300	Not Detected	2000	Not Detected
cis-1,3-Dichloropropene	300	Not Detected	1400	Not Detected
4-Methyl-2-pentanone	300	Not Detected	1200	Not Detected
Toluene	300	Not Detected	1100	Not Detected
trans-1,3-Dichloropropene	300	Not Detected	1400	Not Detected



Client Sample ID: VMP-13-10.5

Lab ID#: 0911391A-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112832	Date of Collection:	11/17/09 9:12:00 AM
Dil. Factor:	59.5	Date of Analysis:	11/28/09 09:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	300	Not Detected	1600	Not Detected
Tetrachloroethene	300	Not Detected	2000	Not Detected
2-Hexanone	1200	Not Detected	4900	Not Detected
Dibromochloromethane	300	Not Detected	2500	Not Detected
1,2-Dibromoethane (EDB)	300	Not Detected	2300	Not Detected
Chlorobenzene	300	Not Detected	1400	Not Detected
Ethyl Benzene	300	Not Detected	1300	Not Detected
m,p-Xylene	300	Not Detected	1300	Not Detected
o-Xylene	300	Not Detected	1300	Not Detected
Styrene	300	Not Detected	1300	Not Detected
Bromoform	300	Not Detected	3100	Not Detected
Cumene	300	Not Detected	1500	Not Detected
1,1,2,2-Tetrachloroethane	300	Not Detected	2000	Not Detected
Propylbenzene	300	Not Detected	1500	Not Detected
4-Ethyltoluene	300	Not Detected	1500	Not Detected
1,3,5-Trimethylbenzene	300	Not Detected	1500	Not Detected
1,2,4-Trimethylbenzene	300	Not Detected	1500	Not Detected
1,3-Dichlorobenzene	300	Not Detected	1800	Not Detected
1,4-Dichlorobenzene	300	Not Detected	1800	Not Detected
alpha-Chlorotoluene	300	Not Detected	1500	Not Detected
1,2-Dichlorobenzene	300	Not Detected	1800	Not Detected
1,2,4-Trichlorobenzene	1200	Not Detected UJ	8800	Not Detected 廿''LJ''
Hexachlorobutadiene	1200	Not Detected	13000	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: VMP-13-10.5-D

Lab ID#: 0911391A-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112906	Date of Collection: 11/17/09 9:09:00 AM
Dil. Factor:	61.8	Date of Analysis: 11/29/09 01:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	310	Not Detected	1500	Not Detected
Freon 114	310	Not Detected	2200	Not Detected
Chloromethane	1200	Not Detected	2600	Not Detected
Vinyl Chloride	310	Not Detected	790	Not Detected
1,3-Butadiene	310	Not Detected	680	Not Detected
Bromomethane	310	Not Detected	1200	Not Detected
Chloroethane	310	Not Detected	820	Not Detected
Freon 11	310	Not Detected	1700	Not Detected
Ethanol	1200	Not Detected	2300	Not Detected
Freon 113	310	Not Detected	2400	Not Detected
1,1-Dichloroethene	310	Not Detected	1200	Not Detected
Acetone	1200	Not Detected	2900	Not Detected
2-Propanol	1200	Not Detected	3000	Not Detected
Carbon Disulfide	310	Not Detected	960	Not Detected
3-Chloropropene	1200	Not Detected	3900	Not Detected
Methylene Chloride	310	Not Detected	1100	Not Detected
Methyl tert-butyl ether	310	Not Detected	1100	Not Detected
trans-1,2-Dichloroethene	310	Not Detected	1200	Not Detected
Hexane	310	Not Detected	1100	Not Detected
1,1-Dichloroethane	310	Not Detected	1200	Not Detected
2-Butanone (Methyl Ethyl Ketone)	310	Not Detected	910	Not Detected
cis-1,2-Dichloroethene	310	Not Detected	1200	Not Detected
Tetrahydrofuran	310	Not Detected	910	Not Detected
Chloroform	310	Not Detected	1500	Not Detected
1,1,1-Trichloroethane	310	Not Detected	1700	Not Detected
Cyclohexane	310	Not Detected	1100	Not Detected
Carbon Tetrachloride	310	Not Detected	1900	Not Detected
2,2,4-Trimethylpentane	310	600	1400	2800
Benzene	310	180000	990	570000
1,2-Dichloroethane	310	Not Detected	1200	Not Detected
Heptane	310	Not Detected	1300	Not Detected
Trichloroethene	310	Not Detected	1700	Not Detected
1,2-Dichloropropane	310	Not Detected	1400	Not Detected
1,4-Dioxane	1200	Not Detected	4400	Not Detected
Bromodichloromethane	310	Not Detected	2100	Not Detected
cis-1,3-Dichloropropene	310	Not Detected	1400	Not Detected
4-Methyl-2-pentanone	310	Not Detected	1300	Not Detected
Toluene	310	Not Detected	1200	Not Detected
trans-1,3-Dichloropropene	310	Not Detected	1400	Not Detected



Client Sample ID: VMP-13-10.5-D

Lab ID#: 0911391A-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112906	Date of Collection:	11/17/09 9:09:00 AM
Dil. Factor:	61.8	Date of Analysis:	11/29/09 01:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	310	Not Detected	1700	Not Detected
Tetrachloroethene	310	Not Detected	2100	Not Detected
2-Hexanone	1200	Not Detected	5100	Not Detected
Dibromochloromethane	310	Not Detected	2600	Not Detected
1,2-Dibromoethane (EDB)	310	Not Detected	2400	Not Detected
Chlorobenzene	310	Not Detected	1400	Not Detected
Ethyl Benzene	310	Not Detected	1300	Not Detected
m,p-Xylene	310	Not Detected	1300	Not Detected
o-Xylene	310	Not Detected	1300	Not Detected
Styrene	310	Not Detected	1300	Not Detected
Bromoform	310	Not Detected	3200	Not Detected
Cumene	310	Not Detected	1500	Not Detected
1,1,2,2-Tetrachloroethane	310	Not Detected	2100	Not Detected
Propylbenzene	310	Not Detected	1500	Not Detected
4-Ethyltoluene	310	Not Detected	1500	Not Detected
1,3,5-Trimethylbenzene	310	Not Detected	1500	Not Detected
1,2,4-Trimethylbenzene	310	Not Detected	1500	Not Detected
1,3-Dichlorobenzene	310	Not Detected	1800	Not Detected
1,4-Dichlorobenzene	310	Not Detected	1800	Not Detected
alpha-Chlorotoluene	310	Not Detected	1600	Not Detected
1,2-Dichlorobenzene	310	Not Detected	1800	Not Detected
1,2,4-Trichlorobenzene	1200	Not Detected	9200	Not Detected
Hexachlorobutadiene	1200	Not Detected	13000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: VMP-13-21.5

Lab ID#: 0911391A-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112907	Date of Collection: 11/17/09 10:36:00 A
Dil. Factor:	3040	Date of Analysis: 11/29/09 01:57 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	15000	Not Detected	75000	Not Detected
Freon 114	15000	Not Detected	110000	Not Detected
Chloromethane	61000	Not Detected	120000	Not Detected
Vinyl Chloride	15000	Not Detected	39000	Not Detected
1,3-Butadiene	15000	Not Detected	34000	Not Detected
Bromomethane	15000	Not Detected	59000	Not Detected
Chloroethane	15000	Not Detected	40000	Not Detected
Freon 11	15000	Not Detected	85000	Not Detected
Ethanol	61000	Not Detected	110000	Not Detected
Freon 113	15000	Not Detected	120000	Not Detected
1,1-Dichloroethene	15000	Not Detected	60000	Not Detected
Acetone	61000	Not Detected	140000	Not Detected
2-Propanol	61000	Not Detected	150000	Not Detected
Carbon Disulfide	15000	Not Detected	47000	Not Detected
3-Chloropropene	61000	Not Detected	190000	Not Detected
Methylene Chloride	15000	Not Detected	53000	Not Detected
Methyl tert-butyl ether	15000	Not Detected	55000	Not Detected
trans-1,2-Dichloroethene	15000	Not Detected	60000	Not Detected
Hexane	15000	Not Detected	54000	Not Detected
1,1-Dichloroethane	15000	Not Detected	62000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	15000	Not Detected	45000	Not Detected
cis-1,2-Dichloroethene	15000	Not Detected	60000	Not Detected
Tetrahydrofuran	15000	Not Detected	45000	Not Detected
Chloroform	15000	Not Detected	74000	Not Detected
1,1,1-Trichloroethane	15000	Not Detected	83000	Not Detected
Cyclohexane	15000	Not Detected	52000	Not Detected
Carbon Tetrachloride	15000	Not Detected	96000	Not Detected
2,2,4-Trimethylpentane	15000	Not Detected	71000	Not Detected
Benzene	15000	7600000	48000	24000000
1,2-Dichloroethane	15000	Not Detected	62000	Not Detected
Heptane	15000	Not Detected	62000	Not Detected
Trichloroethene	15000	Not Detected	82000	Not Detected
1,2-Dichloropropane	15000	Not Detected	70000	Not Detected
1,4-Dioxane	61000	Not Detected	220000	Not Detected
Bromodichloromethane	15000	Not Detected	100000	Not Detected
cis-1,3-Dichloropropene	15000	Not Detected	69000	Not Detected
4-Methyl-2-pentanone	15000	Not Detected	62000	Not Detected
Toluene	15000	Not Detected	57000	Not Detected
trans-1,3-Dichloropropene	15000	Not Detected	69000	Not Detected



Client Sample ID: VMP-13-21.5

Lab ID#: 0911391A-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112907	Date of Collection: 11/17/09 10:36:00 A
Dil. Factor:	3040	Date of Analysis: 11/29/09 01:57 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	15000	Not Detected	83000	Not Detected
Tetrachloroethene	15000	Not Detected	100000	Not Detected
2-Hexanone	61000	Not Detected	250000	Not Detected
Dibromochloromethane	15000	Not Detected	130000	Not Detected
1,2-Dibromoethane (EDB)	15000	Not Detected	120000	Not Detected
Chlorobenzene	15000	Not Detected	70000	Not Detected
Ethyl Benzene	15000	Not Detected	66000	Not Detected
m,p-Xylene	15000	Not Detected	66000	Not Detected
o-Xylene	15000	Not Detected	66000	Not Detected
Styrene	15000	Not Detected	65000	Not Detected
Bromoform	15000	Not Detected	160000	Not Detected
Cumene	15000	Not Detected	75000	Not Detected
1,1,2,2-Tetrachloroethane	15000	Not Detected	100000	Not Detected
Propylbenzene	15000	Not Detected	75000	Not Detected
4-Ethyltoluene	15000	Not Detected	75000	Not Detected
1,3,5-Trimethylbenzene	15000	Not Detected	75000	Not Detected
1,2,4-Trimethylbenzene	15000	Not Detected	75000	Not Detected
1,3-Dichlorobenzene	15000	Not Detected	91000	Not Detected
1,4-Dichlorobenzene	15000	Not Detected	91000	Not Detected
alpha-Chlorotoluene	15000	Not Detected	79000	Not Detected
1,2-Dichlorobenzene	15000	Not Detected	91000	Not Detected
1,2,4-Trichlorobenzene	61000	Not Detected	450000	Not Detected
Hexachlorobutadiene	61000	Not Detected	650000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: VMP-13-29.5

Lab ID#: 0911391A-13A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112910	Date of Collection:	11/17/09 11:40:00 A
Dil. Factor:	5950	Date of Analysis:	11/29/09 03:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	30000	Not Detected	150000	Not Detected
Freon 114	30000	Not Detected	210000	Not Detected
Chloromethane	120000	Not Detected	240000	Not Detected
Vinyl Chloride	30000	Not Detected	76000	Not Detected
1,3-Butadiene	30000	Not Detected	66000	Not Detected
Bromomethane	30000	Not Detected	120000	Not Detected
Chloroethane	30000	Not Detected	78000	Not Detected
Freon 11	30000	Not Detected	170000	Not Detected
Ethanol	120000	Not Detected	220000	Not Detected
Freon 113	30000	Not Detected	230000	Not Detected
1,1-Dichloroethene	30000	Not Detected	120000	Not Detected
Acetone	120000	Not Detected	280000	Not Detected
2-Propanol	120000	Not Detected	290000	Not Detected
Carbon Disulfide	30000	Not Detected	93000	Not Detected
3-Chloropropene	120000	Not Detected	370000	Not Detected
Methylene Chloride	30000	Not Detected	100000	Not Detected
Methyl tert-butyl ether	30000	Not Detected	110000	Not Detected
trans-1,2-Dichloroethene	30000	Not Detected	120000	Not Detected
Hexane	30000	Not Detected	100000	Not Detected
1,1-Dichloroethane	30000	Not Detected	120000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	30000	Not Detected	88000	Not Detected
cis-1,2-Dichloroethene	30000	Not Detected	120000	Not Detected
Tetrahydrofuran	30000	Not Detected	88000	Not Detected
Chloroform	30000	Not Detected	140000	Not Detected
1,1,1-Trichloroethane	30000	Not Detected	160000	Not Detected
Cyclohexane	30000	Not Detected	100000	Not Detected
Carbon Tetrachloride	30000	Not Detected	190000	Not Detected
2,2,4-Trimethylpentane	30000	Not Detected	140000	Not Detected
Benzene	30000	28000000	95000	90000000
1,2-Dichloroethane	30000	Not Detected	120000	Not Detected
Heptane	30000	Not Detected	120000	Not Detected
Trichloroethene	30000	Not Detected	160000	Not Detected
1,2-Dichloropropane	30000	Not Detected	140000	Not Detected
1,4-Dioxane	120000	Not Detected	430000	Not Detected
Bromodichloromethane	30000	Not Detected	200000	Not Detected
cis-1,3-Dichloropropene	30000	Not Detected	140000	Not Detected
4-Methyl-2-pentanone	30000	Not Detected	120000	Not Detected
Toluene	30000	31000	110000	120000
trans-1,3-Dichloropropene	30000	Not Detected	140000	Not Detected



Client Sample ID: VMP-13-29.5

Lab ID#: 0911391A-13A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112910	Date of Collection:	11/17/09 11:40:00 A
Dil. Factor:	6950	Date of Analysis:	11/29/09 03:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	30000	Not Detected	160000	Not Detected
Tetrachloroethene	30000	Not Detected	200000	Not Detected
2-Hexanone	120000	Not Detected	490000	Not Detected
Dibromochloromethane	30000	Not Detected	250000	Not Detected
1,2-Dibromoethane (EDB)	30000	Not Detected	230000	Not Detected
Chlorobenzene	30000	Not Detected	140000	Not Detected
Ethyl Benzene	30000	Not Detected	130000	Not Detected
m,p-Xylene	30000	Not Detected	130000	Not Detected
o-Xylene	30000	Not Detected	130000	Not Detected
Styrene	30000	Not Detected	130000	Not Detected
Bromoform	30000	Not Detected	310000	Not Detected
Cumene	30000	Not Detected	150000	Not Detected
1,1,2,2-Tetrachloroethane	30000	Not Detected	200000	Not Detected
Propylbenzene	30000	Not Detected	150000	Not Detected
4-Ethyltoluene	30000	Not Detected	150000	Not Detected
1,3,5-Trimethylbenzene	30000	Not Detected	150000	Not Detected
1,2,4-Trimethylbenzene	30000	Not Detected	150000	Not Detected
1,3-Dichlorobenzene	30000	Not Detected	180000	Not Detected
1,4-Dichlorobenzene	30000	Not Detected	180000	Not Detected
alpha-Chlorotoluene	30000	Not Detected	150000	Not Detected
1,2-Dichlorobenzene	30000	Not Detected	180000	Not Detected
1,2,4-Trichlorobenzene	120000	Not Detected	880000	Not Detected
Hexachlorobutadiene	120000	Not Detected	1300000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: VMP-11-5

Lab ID#: 0911391A-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112717	Date of Collection: 11/17/09 2:43:00 PM
Dil. Factor:	17.9	Date of Analysis: 11/27/09 05:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	9.0	Not Detected	44	Not Detected
Freon 114	9.0	Not Detected	62	Not Detected
Chloromethane	36	Not Detected	74	Not Detected
Vinyl Chloride	9.0	Not Detected	23	Not Detected
1,3-Butadiene	9.0	Not Detected	20	Not Detected
Bromomethane	9.0	Not Detected	35	Not Detected
Chloroethane	9.0	Not Detected	24	Not Detected
Freon 11	9.0	Not Detected	50	Not Detected
Ethanol	36	Not Detected	67	Not Detected
Freon 113	9.0	Not Detected	68	Not Detected
1,1-Dichloroethene	9.0	Not Detected	35	Not Detected
Acetone	36	Not Detected	85	Not Detected
2-Propanol	36	Not Detected	88	Not Detected
Carbon Disulfide	9.0	Not Detected	28	Not Detected
3-Chloropropene	36	Not Detected	110	Not Detected
Methylene Chloride	9.0	Not Detected	31	Not Detected
Methyl tert-butyl ether	9.0	Not Detected	32	Not Detected
trans-1,2-Dichloroethene	9.0	Not Detected	35	Not Detected
Hexane	9.0	Not Detected	32	Not Detected
1,1-Dichloroethane	9.0	Not Detected	36	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9.0	Not Detected	26	Not Detected
cis-1,2-Dichloroethene	9.0	Not Detected	35	Not Detected
Tetrahydrofuran	9.0	Not Detected	26	Not Detected
Chloroform	9.0	Not Detected	44	Not Detected
1,1,1-Trichloroethane	9.0	Not Detected	49	Not Detected
Cyclohexane	9.0	Not Detected	31	Not Detected
Carbon Tetrachloride	9.0	Not Detected	56	Not Detected
2,2,4-Trimethylpentane	9.0	Not Detected	42	Not Detected
Benzene	9.0	1500	28	4900
1,2-Dichloroethane	9.0	Not Detected	36	Not Detected
Heptane	9.0	Not Detected	37	Not Detected
Trichloroethene	9.0	Not Detected	48	Not Detected
1,2-Dichloropropane	9.0	Not Detected	41	Not Detected
1,4-Dioxane	36	Not Detected	130	Not Detected
Bromodichloromethane	9.0	Not Detected	60	Not Detected
cis-1,3-Dichloropropene	9.0	Not Detected	41	Not Detected
4-Methyl-2-pentanone	9.0	Not Detected	37	Not Detected
Toluene	9.0	Not Detected	34	Not Detected
trans-1,3-Dichloropropene	9.0	Not Detected	41	Not Detected

Client Sample ID: VMP-11-5

Lab ID#: 0911391A-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112717	Date of Collection: 11/17/09 2:43:00 PM
Dil. Factor:	17.9	Date of Analysis: 11/27/09 05:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	9.0	Not Detected	49	Not Detected
Tetrachloroethene	9.0	Not Detected	61	Not Detected
2-Hexanone	36	Not Detected	150	Not Detected
Dibromochloromethane	9.0	Not Detected	76	Not Detected
1,2-Dibromoethane (EDB)	9.0	Not Detected	69	Not Detected
Chlorobenzene	9.0	Not Detected	41	Not Detected
Ethyl Benzene	9.0	Not Detected	39	Not Detected
m,p-Xylene	9.0	Not Detected	39	Not Detected
o-Xylene	9.0	Not Detected	39	Not Detected
Styrene	9.0	Not Detected	38	Not Detected
Bromoform	9.0	Not Detected	92	Not Detected
Cumene	9.0	Not Detected	44	Not Detected
1,1,1,2-Tetrachloroethane	9.0	Not Detected	61	Not Detected
Propylbenzene	9.0	Not Detected	44	Not Detected
4-Ethyltoluene	9.0	Not Detected	44	Not Detected
1,3,5-Trimethylbenzene	9.0	Not Detected	44	Not Detected
1,2,4-Trimethylbenzene	9.0	Not Detected	44	Not Detected
1,3-Dichlorobenzene	9.0	Not Detected	54	Not Detected
1,4-Dichlorobenzene	9.0	Not Detected	54	Not Detected
alpha-Chlorotoluene	9.0	Not Detected	46	Not Detected
1,2-Dichlorobenzene	9.0	Not Detected	54	Not Detected
1,2,4-Trichlorobenzene	36	Not Detected	260	Not Detected
Hexachlorobutadiene	36	Not Detected	380	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: VMP-11-5 Lab Duplicate

Lab ID#: 0911391A-14AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112718	Date of Collection: 11/17/09 2:43:00 PM
Dil. Factor:	17.9	Date of Analysis: 11/27/09 05:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	9.0	Not Detected	44	Not Detected
Freon 114	9.0	Not Detected	62	Not Detected
Chloromethane	36	Not Detected	74	Not Detected
Vinyl Chloride	9.0	Not Detected	23	Not Detected
1,3-Butadiene	9.0	Not Detected	20	Not Detected
Bromomethane	9.0	Not Detected	35	Not Detected
Chloroethane	9.0	Not Detected	24	Not Detected
Freon 11	9.0	Not Detected	50	Not Detected
Ethanol	36	Not Detected	67	Not Detected
Freon 113	9.0	Not Detected	68	Not Detected
1,1-Dichloroethene	9.0	Not Detected	35	Not Detected
Acetone	36	Not Detected	85	Not Detected
2-Propanol	36	Not Detected	88	Not Detected
Carbon Disulfide	9.0	Not Detected	28	Not Detected
3-Chloropropene	36	Not Detected	110	Not Detected
Methylene Chloride	9.0	Not Detected	31	Not Detected
Methyl tert-butyl ether	9.0	Not Detected	32	Not Detected
trans-1,2-Dichloroethene	9.0	Not Detected	35	Not Detected
Hexane	9.0	Not Detected	32	Not Detected
1,1-Dichloroethane	9.0	Not Detected	36	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9.0	Not Detected	26	Not Detected
cis-1,2-Dichloroethene	9.0	Not Detected	35	Not Detected
Tetrahydrofuran	9.0	Not Detected	26	Not Detected
Chloroform	9.0	Not Detected	44	Not Detected
1,1,1-Trichloroethane	9.0	Not Detected	49	Not Detected
Cyclohexane	9.0	Not Detected	31	Not Detected
Carbon Tetrachloride	9.0	Not Detected	56	Not Detected
2,2,4-Trimethylpentane	9.0	Not Detected	42	Not Detected
Benzene	9.0	1400	28	4500
1,2-Dichloroethane	9.0	Not Detected	36	Not Detected
Heptane	9.0	Not Detected	37	Not Detected
Trichloroethene	9.0	Not Detected	48	Not Detected
1,2-Dichloropropane	9.0	Not Detected	41	Not Detected
1,4-Dioxane	36	Not Detected	130	Not Detected
Bromodichloromethane	9.0	Not Detected	60	Not Detected
cis-1,3-Dichloropropene	9.0	Not Detected	41	Not Detected
4-Methyl-2-pentanone	9.0	Not Detected	37	Not Detected
Toluene	9.0	Not Detected	34	Not Detected
trans-1,3-Dichloropropene	9.0	Not Detected	41	Not Detected

Client Sample ID: VMP-11-5 Lab Duplicate

Lab ID#: 0911391A-14AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112718	Date of Collection:	11/17/09 2:43:00 PM
Dil. Factor:	17.9	Date of Analysis:	11/27/09 05:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	9.0	Not Detected	49	Not Detected
Tetrachloroethene	9.0	Not Detected	61	Not Detected
2-Hexanone	36	Not Detected	150	Not Detected
Dibromochloromethane	9.0	Not Detected	76	Not Detected
1,2-Dibromoethane (EDB)	9.0	Not Detected	69	Not Detected
Chlorobenzene	9.0	Not Detected	41	Not Detected
Ethyl Benzene	9.0	Not Detected	39	Not Detected
m,p-Xylene	9.0	Not Detected	39	Not Detected
o-Xylene	9.0	Not Detected	39	Not Detected
Styrene	9.0	Not Detected	38	Not Detected
Bromoform	9.0	Not Detected	92	Not Detected
Cumene	9.0	Not Detected	44	Not Detected
1,1,2,2-Tetrachloroethane	9.0	Not Detected	61	Not Detected
Propylbenzene	9.0	Not Detected	44	Not Detected
4-Ethyltoluene	9.0	Not Detected	44	Not Detected
1,3,5-Trimethylbenzene	9.0	Not Detected	44	Not Detected
1,2,4-Trimethylbenzene	9.0	Not Detected	44	Not Detected
1,3-Dichlorobenzene	9.0	Not Detected	54	Not Detected
1,4-Dichlorobenzene	9.0	Not Detected	54	Not Detected
alpha-Chlorotoluene	9.0	Not Detected	46	Not Detected
1,2-Dichlorobenzene	9.0	Not Detected	54	Not Detected
1,2,4-Trichlorobenzene	36	Not Detected	260	Not Detected
Hexachlorobutadiene	36	Not Detected	380	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	104	70-130



Client Sample ID: VMP-11-8

Lab ID#: 0911391A-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112719	Date of Collection:	11/17/09 3:39:00 PM
Dil. Factor:	2.47	Date of Analysis:	11/27/09 06:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.1	Not Detected
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	4.9	Not Detected	10	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	1.2	Not Detected	4.8	Not Detected
Chloroethane	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Ethanol	4.9	72	9.3	140
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	4.9	17	12	40
2-Propanol	4.9	13	12	32
Carbon Disulfide	1.2	Not Detected	3.8	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	1.2	Not Detected	4.3	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	2.4	3.6	6.9
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.8	Not Detected
Benzene	1.2	140	3.9	460
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Heptane	1.2	Not Detected	5.1	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected

Client Sample ID: VMP-11-8

Lab ID#: 0911391A-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112719	Date of Collection:	11/17/09 3:39:00 PM
Dil. Factor:	2.47	Date of Analysis:	11/27/09 06:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	Not Detected	8.4	Not Detected
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
Propylbenzene	1.2	Not Detected	6.1	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	37	Not Detected
Hexachlorobutadiene	4.9	Not Detected	53	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: Lab Blank

Lab ID#: 0911391A-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112706	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/27/09 10:18 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 0911391A-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112706	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/27/09 10:18 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: Lab Blank

Lab ID#: 0911391A-16B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112807	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/28/09 11:35 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 0911391A-16B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112807	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/28/09 11:35 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected UJ	150	Not Detected UJ
Hexachlorobutadiene	20	Not Detected	210	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: Lab Blank

Lab ID#: 0911391A-16C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112904	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/29/09 10:30 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 0911391A-16C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112904	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/29/09 10:30 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,1,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: CCV

Lab ID#: 0911391A-17A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112705	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/27/09 09:37 AM

Compound	%Recovery
Freon 12	104
Freon 114	106
Chloromethane	99
Vinyl Chloride	103
1,3-Butadiene	101
Bromomethane	108
Chloroethane	97
Freon 11	113
Ethanol	104
Freon 113	108
1,1-Dichloroethene	109
Acetone	104
2-Propanol	106
Carbon Disulfide	108
3-Chloropropene	105
Methylene Chloride	108
Methyl tert-butyl ether	115
trans-1,2-Dichloroethene	110
Hexane	107
1,1-Dichloroethane	110
2-Butanone (Methyl Ethyl Ketone)	114
cis-1,2-Dichloroethene	109
Tetrahydrofuran	104
Chloroform	113
1,1,1-Trichloroethane	114
Cyclohexane	109
Carbon Tetrachloride	116
2,2,4-Trimethylpentane	104
Benzene	110
1,2-Dichloroethane	119
Heptane	111
Trichloroethene	111
1,2-Dichloropropane	112
1,4-Dioxane	108
Bromodichloromethane	119
cis-1,3-Dichloropropene	117
4-Methyl-2-pentanone	118
Toluene	110
trans-1,3-Dichloropropene	125

Client Sample ID: CCV

Lab ID#: 0911391A-17A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112705	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/27/09 09:37 AM

Compound	%Recovery
1,1,2-Trichloroethane	117
Tetrachloroethene	115
2-Hexanone	115
Dibromochloromethane	126
1,2-Dibromoethane (EDB)	123
Chlorobenzene	113
Ethyl Benzene	115
m,p-Xylene	114
o-Xylene	110
Styrene	121
Bromoform	127
Cumene	119
1,1,2,2-Tetrachloroethane	118
Propylbenzene	126
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	115
1,3-Dichlorobenzene	116
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	131 Q
1,2-Dichlorobenzene	115
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	97

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: CCV

Lab ID#: 0911391A-17B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/28/09 08:40 AM

Compound	%Recovery
Freon 12	97
Freon 114	96
Chloromethane	95
Vinyl Chloride	95
1,3-Butadiene	93
Bromomethane	89
Chloroethane	96
Freon 11	93
Ethanol	88
Freon 113	95
1,1-Dichloroethene	96
Acetone	90
2-Propanol	88
Carbon Disulfide	89
3-Chloropropene	93
Methylene Chloride	92
Methyl tert-butyl ether	119
trans-1,2-Dichloroethene	92
Hexane	95
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	92
Tetrahydrofuran	93
Chloroform	92
1,1,1-Trichloroethane	93
Cyclohexane	93
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	96
Benzene	94
1,2-Dichloroethane	94
Heptane	95
Trichloroethene	90
1,2-Dichloropropane	93
1,4-Dioxane	91
Bromodichloromethane	89
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	91
Toluene	95
trans-1,3-Dichloropropene	87

Client Sample ID: CCV

Lab ID#: 0911391A-17B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/28/09 08:40 AM

Compound	%Recovery
1,1,2-Trichloroethane	92
Tetrachloroethene	92
2-Hexanone	86
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	88
Chlorobenzene	89
Ethyl Benzene	90
m,p-Xylene	90
o-Xylene	89
Styrene	92
Bromoform	91
Cumene	88
1,1,1,2-Tetrachloroethane	90
Propylbenzene	88
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	84
1,2,4-Trimethylbenzene	91
1,3-Dichlorobenzene	83
1,4-Dichlorobenzene	87
alpha-Chlorotoluene	81
1,2-Dichlorobenzene	86
1,2,4-Trichlorobenzene	63 Q
Hexachlorobutadiene	71

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: CCV

Lab ID#: 0911391A-17C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112902	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/29/09 08:58 AM

Compound	%Recovery
Freon 12	94
Freon 114	96
Chloromethane	96
Vinyl Chloride	94
1,3-Butadiene	92
Bromomethane	89
Chloroethane	97
Freon 11	93
Ethanol	82
Freon 113	94
1,1-Dichloroethene	95
Acetone	93
2-Propanol	90
Carbon Disulfide	94
3-Chloropropene	94
Methylene Chloride	92
Methyl tert-butyl ether	129
trans-1,2-Dichloroethene	92
Hexane	94
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	93
Tetrahydrofuran	93
Chloroform	93
1,1,1-Trichloroethane	94
Cyclohexane	93
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	95
Benzene	97
1,2-Dichloroethane	98
Heptane	99
Trichloroethene	92
1,2-Dichloropropane	96
1,4-Dioxane	93
Bromodichloromethane	96
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	93
Toluene	98
trans-1,3-Dichloropropene	91

Client Sample ID: CCV

Lab ID#: 0911391A-17C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112902	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/29/09 08:58 AM

Compound	%Recovery
1,1,2-Trichloroethane	94
Tetrachloroethene	95
2-Hexanone	90
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	91
Chlorobenzene	91
Ethyl Benzene	92
m,p-Xylene	92
o-Xylene	92
Styrene	96
Bromoform	98
Cumene	91
1,1,2,2-Tetrachloroethane	94
Propylbenzene	92
4-Ethyltoluene	91
1,3,5-Trimethylbenzene	89
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	89
alpha-Chlorotoluene	87
1,2-Dichlorobenzene	87
1,2,4-Trichlorobenzene	70
Hexachlorobutadiene	74

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: LCS

Lab ID#: 0911391A-18A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/27/09 08:32 AM

Compound	%Recovery
Freon 12	91
Freon 114	91
Chloromethane	83
Vinyl Chloride	87
1,3-Butadiene	87
Bromomethane	92
Chloroethane	82
Freon 11	98
Ethanol	143 Q
Freon 113	82
1,1-Dichloroethene	82
Acetone	82
2-Propanol	84
Carbon Disulfide	90
3-Chloropropene	87
Methylene Chloride	84
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	92
Hexane	88
1,1-Dichloroethane	89
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	91
Tetrahydrofuran	87
Chloroform	94
1,1,1-Trichloroethane	96
Cyclohexane	91
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	86
Benzene	91
1,2-Dichloroethane	100
Heptane	92
Trichloroethene	94
1,2-Dichloropropane	93
1,4-Dioxane	88
Bromodichloromethane	99
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	97
Toluene	88
trans-1,3-Dichloropropene	118

Client Sample ID: LCS

Lab ID#: 0911391A-18A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	s112703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/27/09 08:32 AM

Compound	%Recovery
1,1,2-Trichloroethane	110
Tetrachloroethene	107
2-Hexanone	105
Dibromochloromethane	119
1,2-Dibromoethane (EDB)	122
Chlorobenzene	108
Ethyl Benzene	110
m,p-Xylene	108
o-Xylene	106
Styrene	118
Bromoform	123
Cumene	110
1,1,1,2-Tetrachloroethane	116
Propylbenzene	117
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	116
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	126
1,2-Dichlorobenzene	117
1,2,4-Trichlorobenzene	122
Hexachlorobutadiene	135 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: LCS

Lab ID#: 0911391A-18B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/28/09 10:10 AM

Compound	%Recovery
Freon 12	85
Freon 114	86
Chloromethane	88
Vinyl Chloride	86
1,3-Butadiene	84
Bromomethane	83
Chloroethane	86
Freon 11	84
Ethanol	122
Freon 113	76
1,1-Dichloroethene	78
Acetone	78
2-Propanol	80
Carbon Disulfide	83
3-Chloropropene	82
Methylene Chloride	78
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	82
Hexane	83
1,1-Dichloroethane	81
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	80
Tetrahydrofuran	83
Chloroform	80
1,1,1-Trichloroethane	81
Cyclohexane	83
Carbon Tetrachloride	82
2,2,4-Trimethylpentane	85
Benzene	85
1,2-Dichloroethane	84
Heptane	87
Trichloroethene	83
1,2-Dichloropropane	86
1,4-Dioxane	83
Bromodichloromethane	82
cis-1,3-Dichloropropene	83
4-Methyl-2-pentanone	81
Toluene	83
trans-1,3-Dichloropropene	82

Client Sample ID: LCS

Lab ID#: 0911391A-18B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/28/09 10:10 AM

Compound	%Recovery
1,1,2-Trichloroethane	86
Tetrachloroethene	86
2-Hexanone	82
Dibromochloromethane	85
1,2-Dibromoethane (EDB)	84
Chlorobenzene	83
Ethyl Benzene	84
m,p-Xylene	84
o-Xylene	84
Styrene	84
Bromoform	86
Cumene	80
1,1,2,2-Tetrachloroethane	86
Propylbenzene	81
4-Ethyltoluene	82
1,3,5-Trimethylbenzene	80
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	79
1,4-Dichlorobenzene	82
alpha-Chlorotoluene	75
1,2-Dichlorobenzene	80
1,2,4-Trichlorobenzene	73
Hexachlorobutadiene	77

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: LCS

Lab ID#: 0911391A-18C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112903	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/29/09 09:23 AM

Compound	%Recovery
Freon 12	89
Freon 114	87
Chloromethane	89
Vinyl Chloride	87
1,3-Butadiene	86
Bromomethane	83
Chloroethane	90
Freon 11	85
Ethanol	119
Freon 113	76
1,1-Dichloroethene	78
Acetone	80
2-Propanol	79
Carbon Disulfide	86
3-Chloropropene	83
Methylene Chloride	79
Methyl tert-butyl ether	119
trans-1,2-Dichloroethene	83
Hexane	84
1,1-Dichloroethane	83
2-Butanone (Methyl Ethyl Ketone)	84
cis-1,2-Dichloroethene	82
Tetrahydrofuran	84
Chloroform	82
1,1,1-Trichloroethane	84
Cyclohexane	85
Carbon Tetrachloride	83
2,2,4-Trimethylpentane	85
Benzene	85
1,2-Dichloroethane	86
Heptane	88
Trichloroethene	83
1,2-Dichloropropane	85
1,4-Dioxane	83
Bromodichloromethane	83
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	82
Toluene	84
trans-1,3-Dichloropropene	81

Client Sample ID: LCS

Lab ID#: 0911391A-18C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	b112903	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/29/09 09:23 AM

Compound	%Recovery
1,1,2-Trichloroethane	85
Tetrachloroethene	85
2-Hexanone	83
Dibromochloromethane	86
1,2-Dibromoethane (EDB)	85
Chlorobenzene	84
Ethyl Benzene	85
m,p-Xylene	84
o-Xylene	83
Styrene	85
Bromoform	86
Cumene	81
1,1,2,2-Tetrachloroethane	87
Propylbenzene	83
4-Ethyltoluene	81
1,3,5-Trimethylbenzene	80
1,2,4-Trimethylbenzene	87
1,3-Dichlorobenzene	79
1,4-Dichlorobenzene	82
alpha-Chlorotoluene	72
1,2-Dichlorobenzene	79
1,2,4-Trichlorobenzene	63 Q
Hexachlorobutadiene	70

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	105	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager Aruba Scott (Air Toxics) / Jeff Arbing (UPIS)
 Collected by: (Print and Sign) Kelly Huest / Kelly
 Company UPIS Corporation Email phillips@upis.com
 Address 1001 Highlands Plaza Dr City San Jose State MO Zip 63110
 Phone 314-429-0100 Fax 314-429-0462

Project Info:
 P.O. # _____
 Project # 2-156475.0005
 Project Name Forman Dissolved Phase

Turn Around Time:
 Normal
 Rush
 specify _____

Lab/Use-Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final (psid)
01A	VMP-10-30	000002215	11/13/09	1456/1576	new 50-15, A37M D-1946+H2	-30	-5.5
02A	VMP-12-5	000002916		1019/1030		-30	-6
03A	VMP-12-11.5	000003257		1106/1130		-30	-2.5
04A	VMP-12-25	000003234		1203/1217		-30	-3.5
05A	VMP-12-39	000002102		1257/1317		-30	-4.5
06A	VMP-13-5	000005813	11/16/09	1515/1544		-30	-5
07A	VMP-14-11.5	000002131		0949/1019		-30	-6
08A	VMP-14-20	000003958		1123/1153		-30	-5
09A	VMP-14-29	000002205		1314/1344		-30	-5
10A	VMP-13-10.5	000009532	11/17/09	0844/0912		-30	-5.5

Relinquished by: (signature) Date/Time [Signature] 11/17/09 1700
Received by: (signature) Date/Time Minnie Grogan 11/18/09 955
Relinquished by: (signature) Date/Time _____
Received by: (signature) Date/Time _____
Relinquished by: (signature) Date/Time _____
Received by: (signature) Date/Time _____

Notes: Helium used as tracer compound

Lab/Use-Only
 Shipper Name FEDEX Air Bill # 795750189434 Temp (°C) NA Condition Good Custody Seals Intact? Yes No None Work Order # 0911391



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page ___ of ___

CHAIN-OF-CUSTODY RECORD

Project Manager Aubrey Scott (Air Toxics) / Self Admin (UPS)
 Collected by: (Print and Sign) Kelly Hurst/Kelly
 Company UPS Corporation Email shursta@airtoxics.com
 Address 1001 Highlands Plaza Dr City Salt Lake State MO Zip 63110
 Phone 314-429-0100 Fax 314-429-0462

Project info:
 P.O. # (023)
 Project # 2-1562-175.0005
 Project Name Seismic Disturbed Phase

Turn Around Time:
 Normal
 Rush
 specify _____

Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
11A	VMP-13-10.5-D	000000724	11/17/09	08:44/09	Modified To -15, ASTM D-1946+42	-30	-6.5
12A	VMP-13-21.5	0000005451	11/17/09	1000/1036		-30	-2.5
13A	VMP-13-29.5	0000005817		1110/1140		-30	-6.5
14A	VMP-5 VMP-11-5	0000003702		1413/1443		-30	-4
15A	VMP-11-8	0000005800		1509/1539		-30	-7

Relinquished by: (signature) [Signature] Date/Time 11/17/09 1700
 Received by: (signature) Monica Gargen Date/Time 11/18/09
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) [Signature] Date/Time 9:20
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Notes:

11/18/09 Station used as trace compound

Shipper Name FedEx Air Bill # 795150189434 Temp (°C) NA Condition Good Custody Seals Intact? Yes No None Yes
 Work Order # 0911391

Roxana Data Review

Laboratory SDG: 0911391B

Reviewer: Tony Sedlacek

Date Reviewed: 1/11/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-10-30	VMP-12-5
VMP-12-11.5	VMP-12-25
VMP-12-39	VMP-13-5
VMP-14-11.5	VMP-14-20
VMP-14-29	VMP-13-10.5
VMP-13-10.5-D	VMP-13-21.5
VMP-13-29.5	VMP-11-5
VMP-11-8	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative did not indicate any problems however, laboratory and field duplicate RPDs were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated there was a sample ID discrepancy between the COC and sample label for summa canister VMP-13-21.5. The laboratory contacted URS and was directed that the sample ID on the COC was correct. The sample ID discrepancy was resolved prior to sample analysis. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Not applicable; samples were analyzed for Methane and fixed gases in air and surrogates are not required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No, MS/MSD samples are not collected for Method ASTM D-1946 since spiking material is unable to be added to the summa canister.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

Yes, samples VMP-13-5 and VMP-13-10-5-D were duplicated and analyzed for Methane and fixed gases in air.

Were laboratory duplicate sample RPDs within criteria?

No

Field ID	Parameter	Analyte	RPD	Criteria
VMP-13-10.5-D	Natural gas	Methane	55	25
VMP-13-10.5-D	Natural gas	Carbon dioxide	53	25

The compounds methane and carbon dioxide was qualified due to field duplicate RPD; therefore, no additional qualification of data was required.

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-13-10.5	VMP-13-10.5-D

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
VMP-13-10.5	VMP-13-10.5-D	Natural gas	Methane	62	J
VMP-13-10.5	VMP-13-10.5-D	Natural gas	Carbon dioxide	49	J

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

12/3/2009

Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562175.00005
Workorder #: 0911391B

Dear Mr. Mike Miller

The following report includes the data for the above referenced project for sample(s) received on 11/18/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 0911391B

Work Order Summary

CLIENT:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-566-3073	P.O. #	
FAX:		PROJECT #	21562175.00005 Roxana Dissolved Phase
DATE RECEIVED:	11/18/2009	CONTACT:	Ausha Scott
DATE COMPLETED:	12/03/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-10-30	Modified ASTM D-1946	5.6 "Hg	15 psi
02A	VMP-12-5	Modified ASTM D-1946	6.0 "Hg	15 psi
03A	VMP-12-11.5	Modified ASTM D-1946	2.4 "Hg	15 psi
04A	VMP-12-25	Modified ASTM D-1946	3.2 "Hg	15 psi
05A	VMP-12-39	Modified ASTM D-1946	4.4 "Hg	15 psi
06A	VMP-13-5	Modified ASTM D-1946	5.0 "Hg	15 psi
06AA	VMP-13-5 Lab Duplicate	Modified ASTM D-1946	5.0 "Hg	15 psi
07A	VMP-14-11.5	Modified ASTM D-1946	5.4 "Hg	15 psi
08A	VMP-14-20	Modified ASTM D-1946	4.5 "Hg	15 psi
09A	VMP-14-29	Modified ASTM D-1946	4.0 "Hg	15 psi
10A	VMP-13-10.5	Modified ASTM D-1946	4.5 "Hg	15 psi
11A	VMP-13-10.5-D	Modified ASTM D-1946	5.5 "Hg	15 psi
11AA	VMP-13-10.5-D Lab Duplicate	Modified ASTM D-1946	5.5 "Hg	15 psi
12A	VMP-13-21.5	Modified ASTM D-1946	1.5 "Hg	15 psi
13A	VMP-13-29.5	Modified ASTM D-1946	4.5 "Hg	15 psi
14A	VMP-11-5	Modified ASTM D-1946	3.0 "Hg	15 psi
15A	VMP-11-8	Modified ASTM D-1946	5.5 "Hg	15 psi

Continued on next page

WORK ORDER #: 0911391B

Work Order Summary

CLIENT: Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-566-3073

FAX:

DATE RECEIVED: 11/18/2009

DATE COMPLETED: 12/03/2009

P.O. #

PROJECT # 21562175.00005 Roxana Dissolved Phase

CONTACT: Ausha Scott

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
16A	Lab Blank	Modified ASTM D-1946	NA	NA
16B	Lab Blank	Modified ASTM D-1946	NA	NA
17A	LCS	Modified ASTM D-1946	NA	NA

CERTIFIED BY:

Linda D. Fueman

Laboratory Director

DATE: 12/03/09

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 0911391B**

Fifteen 1 Liter Summa Canister samples were received on November 18, 2009. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 \times$ the RL.

Receiving Notes

The Chain of Custody (COC) information for sample VMP-13-21.5 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-10-30

Lab ID#: 0911391B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	3.4
Nitrogen	0.25	81
Carbon Dioxide	0.025	16

Client Sample ID: VMP-12-5

Lab ID#: 0911391B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	0.90
Nitrogen	0.25	50
Methane	0.00025	33
Carbon Dioxide	0.025	14

Client Sample ID: VMP-12-11.5

Lab ID#: 0911391B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	0.84
Nitrogen	0.22	49
Methane	0.00022	34
Carbon Dioxide	0.022	14

Client Sample ID: VMP-12-25

Lab ID#: 0911391B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	0.84
Nitrogen	0.23	49
Methane	0.00023	33
Carbon Dioxide	0.023	14

Client Sample ID: VMP-12-39

Lab ID#: 0911391B-05A

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-12-39

Lab ID#: 0911391B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	0.95
Nitrogen	0.24	50
Methane	0.00024	32
Carbon Dioxide	0.024	14

Client Sample ID: VMP-13-5

Lab ID#: 0911391B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	2.5
Nitrogen	0.24	82
Methane	0.00024	0.82
Carbon Dioxide	0.024	14

Client Sample ID: VMP-13-5 Lab Duplicate

Lab ID#: 0911391B-06AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	2.4
Nitrogen	0.24	84
Methane	0.00024	0.82
Carbon Dioxide	0.024	13

Client Sample ID: VMP-14-11.5

Lab ID#: 0911391B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.4
Nitrogen	0.25	71
Methane	0.00025	15
Carbon Dioxide	0.025	12
Ethane	0.0025	0.0050

**Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

Client Sample ID: VMP-14-20

Lab ID#: 0911391B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.3
Nitrogen	0.24	60
Methane	0.00024	18
Carbon Dioxide	0.024	18
Ethane	0.0024	0.0062

Client Sample ID: VMP-14-29

Lab ID#: 0911391B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.0
Nitrogen	0.23	60
Methane	0.00023	18
Carbon Dioxide	0.023	17
Ethane	0.0023	0.0073

Client Sample ID: VMP-13-10.5

Lab ID#: 0911391B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	20
Nitrogen	0.24	80
Methane	0.00024	0.0079
Carbon Dioxide	0.024	0.14

Client Sample ID: VMP-13-10.5-D

Lab ID#: 0911391B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	21
Nitrogen	0.25	79
Methane	0.00025	0.015
Carbon Dioxide	0.025	0.23

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-13-10.5-D Lab Duplicate

Lab ID#: 0911391B-11AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	21
Nitrogen	0.25	79
Methane	0.00025	0.014
Carbon Dioxide	0.025	0.24

Client Sample ID: VMP-13-21.5

Lab ID#: 0911391B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	1.3
Nitrogen	0.21	81
Methane	0.00021	1.6
Carbon Dioxide	0.021	15

Client Sample ID: VMP-13-29.5

Lab ID#: 0911391B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.7
Nitrogen	0.24	81
Methane	0.00024	1.6
Carbon Dioxide	0.024	13

Client Sample ID: VMP-11-5

Lab ID#: 0911391B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	4.4
Nitrogen	0.22	87
Methane	0.00022	1.0
Carbon Dioxide	0.022	7.8

Client Sample ID: VMP-11-8

Lab ID#: 0911391B-15A

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-11-8

Lab ID#: 0911391B-15A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	5.1
Nitrogen	0.25	84
Methane	0.00025	0.010
Carbon Dioxide	0.025	11
Helium	0.12	0.21



Client Sample ID: VMP-10-30

Lab ID#: 0911391B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112404	Date of Collection:	11/13/09 3:16:00 PM
Dil. Factor:	2.48	Date of Analysis:	11/24/09 08:24 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	3.4
Nitrogen	0.25	81
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	Not Detected
Carbon Dioxide	0.025	16
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-12-5

Lab ID#: 0911391B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112405	Date of Collection:	11/13/09 10:30:00 AM
Dil. Factor:	2.52	Date of Analysis:	11/24/09 08:59 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	0.90
Nitrogen	0.25	50
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	33
Carbon Dioxide	0.025	14
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-12-11.5

Lab ID#: 0911391B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112406	Date of Collection:	11/13/09 11:30:00 AM
Dil. Factor:	2.20	Date of Analysis:	11/24/09 09:28 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	0.84
Nitrogen	0.22	49
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	34
Carbon Dioxide	0.022	14
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-12-25

Lab ID#: 0911391B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112407	Date of Collection:	11/13/09 12:17:00 PM
Dil. Factor:	2.26	Date of Analysis:	11/24/09 10:01 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	0.84
Nitrogen	0.23	49
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	33
Carbon Dioxide	0.023	14
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-12-39

Lab ID#: 0911391B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112408	Date of Collection:	11/13/09 1:17:00 PM
Dil. Factor:	2.37	Date of Analysis:	11/24/09 10:31 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	0.95
Nitrogen	0.24	50
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	32
Carbon Dioxide	0.024	14
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-13-5

Lab ID#: 0911391B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112409	Date of Collection:	11/16/09 3:44:00 PM
Dil. Factor:	2.42	Date of Analysis:	11/24/09 10:55 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	2.5
Nitrogen	0.24	82
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	0.82
Carbon Dioxide	0.024	14
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-13-5 Lab Duplicate

Lab ID#: 0911391B-06AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112410	Date of Collection: 11/16/09 3:44:00 PM
Dil. Factor:	2.42	Date of Analysis: 11/24/09 11:24 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	2.4
Nitrogen	0.24	84
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	0.82
Carbon Dioxide	0.024	13
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-14-11.5

Lab ID#: 0911391B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112411	Date of Collection: 11/16/09 10:19:00 AM
Dil. Factor:	2.46	Date of Analysis: 11/24/09 12:04 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.4
Nitrogen	0.25	71
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	15
Carbon Dioxide	0.025	12
Ethane	0.0025	0.0050
Ethene	0.0025	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-14-20

Lab ID#: 0911391B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112413	Date of Collection: 11/16/09 11:53:00 AM
Dil. Factor:	2.38	Date of Analysis: 11/24/09 12:51 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.3
Nitrogen	0.24	60
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	18
Carbon Dioxide	0.024	18
Ethane	0.0024	0.0062
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-14-29

Lab ID#: 0911391B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112414	Date of Collection: 11/16/09 1:44:00 PM
Dil. Factor:	2.33	Date of Analysis: 11/24/09 01:21 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.0
Nitrogen	0.23	60
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	18
Carbon Dioxide	0.023	17
Ethane	0.0023	0.0073
Ethene	0.0023	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-13-10.5

Lab ID#: 0911391B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112416	Date of Collection: 11/17/09 9:12:00 AM
Dil. Factor:	2.38	Date of Analysis: 11/24/09 02:13 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	20
Nitrogen	0.24	80
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	0.0079 — "J"
Carbon Dioxide	0.024	0.14 — "J"
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-13-10.5-D

Lab ID#: 0911391B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112417	Date of Collection:	11/17/09 9:09:00 AM
Dil. Factor:	2.47	Date of Analysis:	11/24/09 02:37 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	21
Nitrogen	0.25	79
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	0.015 - "J"
Carbon Dioxide	0.025	0.23 - "J"
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-13-10.5-D Lab Duplicate

Lab ID#: 0911391B-11AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112418	Date of Collection: 11/17/09 9:09:00 AM
Dil. Factor:	2.47	Date of Analysis: 11/24/09 03:05 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	21
Nitrogen	0.25	79
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	0.014
Carbon Dioxide	0.025	0.24
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-13-21.5

Lab ID#: 0911391B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112419	Date of Collection: 11/17/09 10:36:00 AM
Dil. Factor:	2.13	Date of Analysis: 11/24/09 03:36 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	1.3
Nitrogen	0.21	81
Carbon Monoxide	0.021	Not Detected
Methane	0.00021	1.6
Carbon Dioxide	0.021	15
Ethane	0.0021	Not Detected
Ethene	0.0021	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-13-29.5

Lab ID#: 0911391B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112421	Date of Collection:	11/17/09 11:40:00 AM
Dil. Factor:	2.38	Date of Analysis:	11/24/09 04:34 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.7
Nitrogen	0.24	81
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	1.6
Carbon Dioxide	0.024	13
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-11-5

Lab ID#: 0911391B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112423	Date of Collection:	11/17/09 2:43:00 PM
Dil. Factor:	2.24	Date of Analysis:	11/24/09 05:54 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	4.4
Nitrogen	0.22	87
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	1.0
Carbon Dioxide	0.022	7.8
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-11-8

Lab ID#: 0911391B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112424	Date of Collection:	11/17/09 3:39:00 PM
Dil. Factor:	2.47	Date of Analysis:	11/24/09 07:00 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	5.1
Nitrogen	0.25	84
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	0.010
Carbon Dioxide	0.025	11
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.12	0.21

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 0911391B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/24/09 08:00 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

Container Type: NA - Not Applicable



Client Sample ID: Lab Blank

Lab ID#: 0911391B-16B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112402b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/24/09 07:35 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 0911391B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9112431	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/24/09 10:35 PM

Compound	%Recovery
Oxygen	95
Nitrogen	96
Carbon Monoxide	98
Methane	100
Carbon Dioxide	97
Ethane	99
Ethene	99
Helium	105

Container Type: NA - Not Applicable



Sample Transportation Notice

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(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager Aubrey Smith Car Toxics Self Admin (UPR)
 Collected by: (Print and Sign) Kelly Hestert / Healthy Air
 Company UPR Corporation Email ahsmith@upr.com
 Address 1001 Washington Plaza City San Luis Obispo State CA Zip 93110
 Phone 314-429-0100 Fax 314-429-0462

Project Info:
 P.O. # _____
 Project # 2150-275-0005
 Project Name Person Disposal Phase
 Turn Around Time: Normal Rush
 Date: _____
 Pressurization Gas: _____
 N: _____
 We: _____

Lab ID	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
01A	VMP-10-30	00002225	11/13/09	1456/1516	MS-5, MS-5, MS-5, MS-5, MS-5, MS-5	-30	-5.5
02A	VMP-12-5	00002316		1019/1030		-30	-6
03A	VMP-12-11.5	00002325		1106/1130		-30	-2.5
04A	VMP-12-25	00002334		1203/1217		-30	-3.5
05A	VMP-12-59	00002102		1257/1317		-30	-4.5
06A	VMP-13-5	00002583	11/16/09	1515/1544		-30	-5
07A	VMP-14-11.5	00002131		0949/1019		-30	-6
08A	VMP-14-20	00002358		1123/1133		-30	-5
09A	VMP-14-29	00002205		1314/1344		-30	-5
10A	VMP-13-10.5	00002532	11/17/09	0844/0912		-30	-5.5

Relinquished by: (signature) _____ Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Notes: Hebin used as inner canister

Received by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____
 Shipper Name: _____ Air Bill # _____ Temp (C) _____
 Condition: _____ Custody Seals Intact? _____ Work Order # _____
 Yes No Note 0911391



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page of

Project Manager Ashley Scott (Air Toxics) / Self Admin (UPD)
 Collected by: (Print and Sign) Kelly Hirsch / Kelly Hirsch
 Company URS Corporation Email ashley.scott@urscorp.com
 Address 1001 Highways Plaza Dr City San Jose State CA Zip 95110
 Phone 415-491-0180 Fax 415-491-0462

Project info:
 P.O. # (URS)
 Project # 256475, 2005
 Project Name San Joaquin Hills Phase

Turn Around Time:
 Normal
 Flush
 specify _____

Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 N₂ He _____

Lab ID	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
11A	VMP-13-10.5-D	000005724	11/17/09	08:44/09A	Methyl Toluene, Asst. D-194642	-30	-8.5
12A	VMP-13-21.5	000005451	11/17/09	10:00/1036		-30	-2.5
13A	VMP-13-29.5	000005817		11:10/1140		-30	-6.5
14A	VMP-13-29.5 VMP-11-5	000005702		14:13/1443		-30	-4
15A	VMP-11-8	000005800		15:07/1539		-30	-7

Requiring by: (signature) [Signature] Date/Time 11/17/09 1:00
 Received by: (signature) Monica Grogan Date/Time 11/18/09 9:20
 Notes: Method used as prior compound

Requiring by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Requiring by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Shipper Name Fed Ex Air Bill # 795750189934 Temp (C) NA Condition GOOD
 Custody Seals - Intact? Yes No None Work Order # 0911391

Roxana Data Review

Laboratory SDG: 0911502A

Reviewer: Tony Sedlacek

Date Reviewed: 1/11/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-11-29	VMP-11-38
VMP-15-5	VMP-15-5-D
VMP-15-21.5	VMP-15-25.5
VMP-16-13.5	VMP-16-19
VMP-16-31	VMP-16-31-D
VMP-15-29	VMP-14-5
VMP-16-5	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that field duplicate RPDs were outside evaluation criteria. Although not indicated in the laboratory case narrative, VOC LCS recoveries were outside evaluation criteria. Samples were diluted due to high levels of target analytes and samples were qualified using professional judgment. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/ RPD Criteria
0911502A-16A	VOCs	Ethanol	142	N/A	60-140
0911502A-16B	VOCs	Ethanol	168	N/A	60-140
0911502A-16C	VOCs	Ethanol	150	N/A	60-140

Analytical data that required qualification based on LCS data are included in the table below. Ethanol results reported nondetect and associated with the LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
VMP-15-5	VOCs	Ethanol	J
VMP-15-5-D	VOCs	Ethanol	J

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No, MS/MSD samples are not collected for Method TO-15 since spiking material is unable to be added to the summa canister.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

Yes, sample VMP-15-21.5 was duplicated and analyzed for VOCs.

Were laboratory duplicate sample RPDs within criteria?

Yes

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-15-5	VMP-15-5-D
VMP-16-31	VMP-16-31-D

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
VMP-15-5	VMP-15-5-D	VOCs	Benzene	72	J
VMP-16-31	VMP-16-31-D	VOCs	Cyclohexane	200	J/UJ

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes

Professional judgment was used to qualify the 2,2,4-Trimethylpentane results in samples VMP-16-31 and VMP-16-31-D. The 2,2,4-Trimethylpentane results exceeded the calibration range of the instrument and were qualified "E" by the laboratory.

Sample ID	Analyte	New RL	Qualification	Comment
VMP-16-31	2,2,4-Trimethylpentane	-	J	Professional Judgment
VMP-16-31-D	2,2,4-Trimethylpentane	-	J	Professional Judgment

12/9/2009
Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562175.00005
Workorder #: 0911502A

Dear Mr. Mike Miller

The following report includes the data for the above referenced project for sample(s) received on 11/21/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 0911502A

Work Order Summary

CLIENT:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-566-3073	P.O. #	
FAX:		PROJECT #	21562175.00005 Roxana Dissolved
DATE RECEIVED:	11/21/2009	CONTACT:	Phase Ausha Scott
DATE COMPLETED:	12/09/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-11-29	Modified TO-15	4.5 "Hg	15 psi
02A	VMP-11-38	Modified TO-15	9.5 "Hg	15 psi
03A	VMP-15-5	Modified TO-15	6.0 "Hg	15 psi
04A	VMP-15-5-D	Modified TO-15	6.0 "Hg	15 psi
05A	VMP-15-21.5	Modified TO-15	3.5 "Hg	15 psi
05AA	VMP-15-21.5 Lab Duplicate	Modified TO-15	3.5 "Hg	15 psi
06A	VMP-15-25.5	Modified TO-15	4.5 "Hg	15 psi
07A	VMP-16-13.5	Modified TO-15	4.5 "Hg	15 psi
08A	VMP-16-19	Modified TO-15	6.5 "Hg	15 psi
09A	VMP-16-31	Modified TO-15	4.0 "Hg	15 psi
10A	VMP-16-31-D	Modified TO-15	4.0 "Hg	15 psi
11A	VMP-15-29	Modified TO-15	4.5 "Hg	15 psi
12A	VMP-14-5	Modified TO-15	6.5 "Hg	15 psi
13A	VMP-16-5	Modified TO-15	6.0 "Hg	15 psi
14A	Lab Blank	Modified TO-15	NA	NA
14B	Lab Blank	Modified TO-15	NA	NA
14C	Lab Blank	Modified TO-15	NA	NA

Continued on next page

WORK ORDER #: 0911502A

Work Order Summary

CLIENT: Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-566-3073

FAX:

DATE RECEIVED: 11/21/2009

DATE COMPLETED: 12/09/2009

P.O. #

PROJECT # 21562175.00005 Roxana Dissolved

CONTACT: Phase
Ausha Scott

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
15A	CCV	Modified TO-15	NA	NA
15B	CCV	Modified TO-15	NA	NA
15C	CCV	Modified TO-15	NA	NA
16A	LCS	Modified TO-15	NA	NA
16B	LCS	Modified TO-15	NA	NA
16C	LCS	Modified TO-15	NA	NA

CERTIFIED BY:

Sandra A. Freeman

Laboratory Director

DATE: 12/09/09

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15
URS Corporation
Workorder# 0911502A**

Thirteen 1 Liter Summa Canister samples were received on November 21, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Daily CCV	<= 30% Difference	<= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The field duplicate samples VMP-15-5 and VMP-15-5-D demonstrated greater than 25% RPD for positive results. Re-analysis confirmed the results.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-11-29

Lab ID#: 0911502A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	8500	2700000	27000	8600000

Client Sample ID: VMP-11-38

Lab ID#: 0911502A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	25000	9800000	79000	31000000

Client Sample ID: VMP-15-5

Lab ID#: 0911502A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	5.1	5.9	9.5	11
Benzene	1.3	170	4.0	550

Client Sample ID: VMP-15-5-D

Lab ID#: 0911502A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	5.1	9.7	9.5	18
Carbon Disulfide	1.3	2.0	3.9	6.3
Benzene	1.3	83	4.0	260

Client Sample ID: VMP-15-21.5

Lab ID#: 0911502A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	570	27000	2000	96000
Cyclohexane	570	130000	2000	460000
2,2,4-Trimethylpentane	570	220000	2700	1000000
Benzene	570	3400	1800	11000
Heptane	570	7500	2300	30000

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-15-21.5 Lab Duplicate

Lab ID#: 0911502A-05AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	570	28000	2000	97000
Cyclohexane	570	130000	2000	460000
2,2,4-Trimethylpentane	570	210000	2700	990000
Benzene	570	3200	1800	10000
Heptane	570	7500	2300	31000

Client Sample ID: VMP-15-25.5

Lab ID#: 0911502A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	600	24000	2100	86000
Cyclohexane	600	160000	2000	560000
2,2,4-Trimethylpentane	600	180000	2800	850000
Benzene	600	5600	1900	18000
Heptane	600	5400	2400	22000

Client Sample ID: VMP-16-13.5

Lab ID#: 0911502A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	74	300	260	1000
2,2,4-Trimethylpentane	74	17000	350	82000
Benzene	74	220	240	690
Toluene	74	120	280	460

Client Sample ID: VMP-16-19

Lab ID#: 0911502A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	640	2400	2200	8200
2,2,4-Trimethylpentane	640	190000	3000	910000
Benzene	640	1400	2100	4600



**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS**

Client Sample ID: VMP-16-31

Lab ID#: 0911502A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	970	4400	3300	15000
2,2,4-Trimethylpentane	970	510000 E	4500	2400000 E

Client Sample ID: VMP-16-31-D

Lab ID#: 0911502A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	970	490000 E	4500	2300000 E

Client Sample ID: VMP-15-29

Lab ID#: 0911502A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	740	32000	2600	110000
Cyclohexane	740	190000	2600	640000
2,2,4-Trimethylpentane	740	190000	3500	880000
Benzene	740	9300	2400	30000
Heptane	740	7800	3000	32000

Client Sample ID: VMP-14-5

Lab ID#: 0911502A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	2.6	4.4	9.1	15
2,2,4-Trimethylpentane	2.6	190	12	880
Benzene	2.6	6.7	8.2	21

Client Sample ID: VMP-16-5

Lab ID#: 0911502A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	17	3500	79	16000
Benzene	17	40	54	130
Toluene	17	33	63	120



Client Sample ID: VMP-11-29

Lab ID#: 0911502A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120410	Date of Collection:	11/18/09 9:10:00 AM
Dil. Factor:	1700	Date of Analysis:	12/4/09 11:30 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8500	Not Detected	42000	Not Detected
Freon 114	8500	Not Detected	59000	Not Detected
Chloromethane	34000	Not Detected	70000	Not Detected
Vinyl Chloride	8500	Not Detected	22000	Not Detected
1,3-Butadiene	8500	Not Detected	19000	Not Detected
Bromomethane	8500	Not Detected	33000	Not Detected
Chloroethane	8500	Not Detected	22000	Not Detected
Freon 11	8500	Not Detected	48000	Not Detected
Ethanol	34000	Not Detected	64000	Not Detected
Freon 113	8500	Not Detected	65000	Not Detected
1,1-Dichloroethene	8500	Not Detected	34000	Not Detected
Acetone	34000	Not Detected	81000	Not Detected
2-Propanol	34000	Not Detected	84000	Not Detected
Carbon Disulfide	8500	Not Detected	26000	Not Detected
3-Chloropropene	34000	Not Detected	110000	Not Detected
Methylene Chloride	8500	Not Detected	30000	Not Detected
Methyl tert-butyl ether	8500	Not Detected	31000	Not Detected
trans-1,2-Dichloroethene	8500	Not Detected	34000	Not Detected
Hexane	8500	Not Detected	30000	Not Detected
1,1-Dichloroethane	8500	Not Detected	34000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8500	Not Detected	25000	Not Detected
cis-1,2-Dichloroethene	8500	Not Detected	34000	Not Detected
Tetrahydrofuran	8500	Not Detected	25000	Not Detected
Chloroform	8500	Not Detected	42000	Not Detected
1,1,1-Trichloroethane	8500	Not Detected	46000	Not Detected
Cyclohexane	8500	Not Detected	29000	Not Detected
Carbon Tetrachloride	8500	Not Detected	53000	Not Detected
2,2,4-Trimethylpentane	8500	Not Detected	40000	Not Detected
Benzene	8500	2700000	27000	8600000
1,2-Dichloroethane	8500	Not Detected	34000	Not Detected
Heptane	8500	Not Detected	35000	Not Detected
Trichloroethene	8500	Not Detected	46000	Not Detected
1,2-Dichloropropane	8500	Not Detected	39000	Not Detected
1,4-Dioxane	34000	Not Detected	120000	Not Detected
Bromodichloromethane	8500	Not Detected	57000	Not Detected
cis-1,3-Dichloropropene	8500	Not Detected	38000	Not Detected
4-Methyl-2-pentanone	8500	Not Detected	35000	Not Detected
Toluene	8500	Not Detected	32000	Not Detected
trans-1,3-Dichloropropene	8500	Not Detected	38000	Not Detected



Client Sample ID: VMP-11-29

Lab ID#: 0911502A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120410	Date of Collection: 11/18/09 9:10:00 AM
Dil. Factor:	1700	Date of Analysis: 12/4/09 11:30 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	8500	Not Detected	46000	Not Detected
Tetrachloroethene	8500	Not Detected	58000	Not Detected
2-Hexanone	34000	Not Detected	140000	Not Detected
Dibromochloromethane	8500	Not Detected	72000	Not Detected
1,2-Dibromoethane (EDB)	8500	Not Detected	65000	Not Detected
Chlorobenzene	8500	Not Detected	39000	Not Detected
Ethyl Benzene	8500	Not Detected	37000	Not Detected
m,p-Xylene	8500	Not Detected	37000	Not Detected
o-Xylene	8500	Not Detected	37000	Not Detected
Styrene	8500	Not Detected	36000	Not Detected
Bromoform	8500	Not Detected	88000	Not Detected
Cumene	8500	Not Detected	42000	Not Detected
1,1,1,2-Tetrachloroethane	8500	Not Detected	58000	Not Detected
Propylbenzene	8500	Not Detected	42000	Not Detected
4-Ethyltoluene	8500	Not Detected	42000	Not Detected
1,3,5-Trimethylbenzene	8500	Not Detected	42000	Not Detected
1,2,4-Trimethylbenzene	8500	Not Detected	42000	Not Detected
1,3-Dichlorobenzene	8500	Not Detected	51000	Not Detected
1,4-Dichlorobenzene	8500	Not Detected	51000	Not Detected
alpha-Chlorotoluene	8500	Not Detected	44000	Not Detected
1,2-Dichlorobenzene	8500	Not Detected	51000	Not Detected
1,2,4-Trichlorobenzene	34000	Not Detected	250000	Not Detected
Hexachlorobutadiene	34000	Not Detected	360000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: VMP-11-38

Lab ID#: 0911502A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120411	Date of Collection: 11/18/09 10:17:00 A
Dil. Factor:	4930	Date of Analysis: 12/4/09 12:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	25000	Not Detected	120000	Not Detected
Freon 114	25000	Not Detected	170000	Not Detected
Chloromethane	99000	Not Detected	200000	Not Detected
Vinyl Chloride	25000	Not Detected	63000	Not Detected
1,3-Butadiene	25000	Not Detected	54000	Not Detected
Bromomethane	25000	Not Detected	96000	Not Detected
Chloroethane	25000	Not Detected	65000	Not Detected
Freon 11	25000	Not Detected	140000	Not Detected
Ethanol	99000	Not Detected	180000	Not Detected
Freon 113	25000	Not Detected	190000	Not Detected
1,1-Dichloroethene	25000	Not Detected	98000	Not Detected
Acetone	99000	Not Detected	230000	Not Detected
2-Propanol	99000	Not Detected	240000	Not Detected
Carbon Disulfide	25000	Not Detected	77000	Not Detected
3-Chloropropene	99000	Not Detected	310000	Not Detected
Methylene Chloride	25000	Not Detected	86000	Not Detected
Methyl tert-butyl ether	25000	Not Detected	89000	Not Detected
trans-1,2-Dichloroethene	25000	Not Detected	98000	Not Detected
Hexane	25000	Not Detected	87000	Not Detected
1,1-Dichloroethane	25000	Not Detected	100000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	25000	Not Detected	73000	Not Detected
cis-1,2-Dichloroethene	25000	Not Detected	98000	Not Detected
Tetrahydrofuran	25000	Not Detected	73000	Not Detected
Chloroform	25000	Not Detected	120000	Not Detected
1,1,1-Trichloroethane	25000	Not Detected	130000	Not Detected
Cyclohexane	25000	Not Detected	85000	Not Detected
Carbon Tetrachloride	25000	Not Detected	160000	Not Detected
2,2,4-Trimethylpentane	25000	Not Detected	120000	Not Detected
Benzene	25000	9800000	79000	31000000
1,2-Dichloroethane	25000	Not Detected	100000	Not Detected
Heptane	25000	Not Detected	100000	Not Detected
Trichloroethene	25000	Not Detected	130000	Not Detected
1,2-Dichloropropane	25000	Not Detected	110000	Not Detected
1,4-Dioxane	99000	Not Detected	360000	Not Detected
Bromodichloromethane	25000	Not Detected	160000	Not Detected
cis-1,3-Dichloropropene	25000	Not Detected	110000	Not Detected
4-Methyl-2-pentanone	25000	Not Detected	100000	Not Detected
Toluene	25000	Not Detected	93000	Not Detected
trans-1,3-Dichloropropene	25000	Not Detected	110000	Not Detected



Client Sample ID: VMP-11-38

Lab ID#: 0911502A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120411	Date of Collection:	11/18/09 10:17:00 A
Dil. Factor:	4930	Date of Analysis:	12/4/09 12:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	25000	Not Detected	130000	Not Detected
Tetrachloroethene	25000	Not Detected	170000	Not Detected
2-Hexanone	99000	Not Detected	400000	Not Detected
Dibromochloromethane	25000	Not Detected	210000	Not Detected
1,2-Dibromoethane (EDB)	25000	Not Detected	190000	Not Detected
Chlorobenzene	25000	Not Detected	110000	Not Detected
Ethyl Benzene	25000	Not Detected	110000	Not Detected
m,p-Xylene	25000	Not Detected	110000	Not Detected
o-Xylene	25000	Not Detected	110000	Not Detected
Styrene	25000	Not Detected	100000	Not Detected
Bromoform	25000	Not Detected	250000	Not Detected
Cumene	25000	Not Detected	120000	Not Detected
1,1,1,2-Tetrachloroethane	25000	Not Detected	170000	Not Detected
Propylbenzene	25000	Not Detected	120000	Not Detected
4-Ethyltoluene	25000	Not Detected	120000	Not Detected
1,3,5-Trimethylbenzene	25000	Not Detected	120000	Not Detected
1,2,4-Trimethylbenzene	25000	Not Detected	120000	Not Detected
1,3-Dichlorobenzene	25000	Not Detected	150000	Not Detected
1,4-Dichlorobenzene	25000	Not Detected	150000	Not Detected
alpha-Chlorotoluene	25000	Not Detected	130000	Not Detected
1,2-Dichlorobenzene	25000	Not Detected	150000	Not Detected
1,2,4-Trichlorobenzene	99000	Not Detected	730000	Not Detected
Hexachlorobutadiene	99000	Not Detected	1000000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130



Client Sample ID: VMP-15-5

Lab ID#: 0911502A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120706	Date of Collection:	11/18/09 1:35:00 PM
Dil. Factor:	2.53	Date of Analysis:	12/7/09 03:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.2	Not Detected
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	5.1	Not Detected	10	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	1.3	Not Detected	4.9	Not Detected
Chloroethane	1.3	Not Detected	3.3	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Ethanol	5.1	5.9	9.5	11 "J"
Freon 113	1.3	Not Detected	9.7	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	5.1	Not Detected	12	Not Detected
2-Propanol	5.1	Not Detected	12	Not Detected
Carbon Disulfide	1.3	Not Detected	3.9	Not Detected
3-Chloropropene	5.1	Not Detected	16	Not Detected
Methylene Chloride	1.3	Not Detected	4.4	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.3	Not Detected	3.7	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.7	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Cyclohexane	1.3	Not Detected	4.4	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.0	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	5.9	Not Detected
Benzene	1.3	170	4.0	550 "J"
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.1	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.5	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	Not Detected	4.8	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected



Client Sample ID: VMP-15-5

Lab ID#: 0911502A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120706	Date of Collection:	11/18/09 1:35:00 PM
Dil. Factor:	2.53	Date of Analysis:	12/7/09 03:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	Not Detected	8.6	Not Detected
2-Hexanone	5.1	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.7	Not Detected
Propylbenzene	1.3	Not Detected	6.2	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.1	Not Detected	38	Not Detected
Hexachlorobutadiene	5.1	Not Detected	54	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	106	70-130



Client Sample ID: VMP-15-5-D

Lab ID#: 0911502A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120707	Date of Collection:	11/18/09 1:35:00 PM
Dil. Factor:	2.53	Date of Analysis:	12/7/09 03:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.2	Not Detected
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	5.1	Not Detected	10	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	1.3	Not Detected	4.9	Not Detected
Chloroethane	1.3	Not Detected	3.3	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Ethanol	5.1	9.7	9.5	18 — "J"
Freon 113	1.3	Not Detected	9.7	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	5.1	Not Detected	12	Not Detected
2-Propanol	5.1	Not Detected	12	Not Detected
Carbon Disulfide	1.3	2.0	3.9	6.3
3-Chloropropene	5.1	Not Detected	16	Not Detected
Methylene Chloride	1.3	Not Detected	4.4	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.3	Not Detected	3.7	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.7	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Cyclohexane	1.3	Not Detected	4.4	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.0	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	5.9	Not Detected
Benzene	1.3	83	4.0	260 — "J"
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.1	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.5	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	Not Detected	4.8	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected



Client Sample ID: VMP-15-5-D

Lab ID#: 0911502A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120707	Date of Collection:	11/18/09 1:35:00 PM
Dil. Factor:	2.53	Date of Analysis:	12/7/09 03:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	Not Detected	8.6	Not Detected
2-Hexanone	5.1	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.7	Not Detected
Propylbenzene	1.3	Not Detected	6.2	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.1	Not Detected	38	Not Detected
Hexachlorobutadiene	5.1	Not Detected	54	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: VMP-15-21.5

Lab ID#: 0911502A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120413	Date of Collection: 11/18/09 2:33:00 PM
Dil. Factor:	114	Date of Analysis: 12/4/09 01:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	570	Not Detected	2800	Not Detected
Freon 114	570	Not Detected	4000	Not Detected
Chloromethane	2300	Not Detected	4700	Not Detected
Vinyl Chloride	570	Not Detected	1400	Not Detected
1,3-Butadiene	570	Not Detected	1300	Not Detected
Bromomethane	570	Not Detected	2200	Not Detected
Chloroethane	570	Not Detected	1500	Not Detected
Freon 11	570	Not Detected	3200	Not Detected
Ethanol	2300	Not Detected	4300	Not Detected
Freon 113	570	Not Detected	4400	Not Detected
1,1-Dichloroethene	570	Not Detected	2300	Not Detected
Acetone	2300	Not Detected	5400	Not Detected
2-Propanol	2300	Not Detected	5600	Not Detected
Carbon Disulfide	570	Not Detected	1800	Not Detected
3-Chloropropene	2300	Not Detected	7100	Not Detected
Methylene Chloride	570	Not Detected	2000	Not Detected
Methyl tert-butyl ether	570	Not Detected	2000	Not Detected
trans-1,2-Dichloroethene	570	Not Detected	2200	Not Detected
Hexane	570	27000	2000	96000
1,1-Dichloroethane	570	Not Detected	2300	Not Detected
2-Butanone (Methyl Ethyl Ketone)	570	Not Detected	1700	Not Detected
cis-1,2-Dichloroethene	570	Not Detected	2200	Not Detected
Tetrahydrofuran	570	Not Detected	1700	Not Detected
Chloroform	570	Not Detected	2800	Not Detected
1,1,1-Trichloroethane	570	Not Detected	3100	Not Detected
Cyclohexane	570	130000	2000	460000
Carbon Tetrachloride	570	Not Detected	3600	Not Detected
2,2,4-Trimethylpentane	570	220000	2700	1000000
Benzene	570	3400	1800	11000
1,2-Dichloroethane	570	Not Detected	2300	Not Detected
Heptane	570	7500	2300	30000
Trichloroethene	570	Not Detected	3100	Not Detected
1,2-Dichloropropane	570	Not Detected	2600	Not Detected
1,4-Dioxane	2300	Not Detected	8200	Not Detected
Bromodichloromethane	570	Not Detected	3800	Not Detected
cis-1,3-Dichloropropene	570	Not Detected	2600	Not Detected
4-Methyl-2-pentanone	570	Not Detected	2300	Not Detected
Toluene	570	Not Detected	2100	Not Detected
trans-1,3-Dichloropropene	570	Not Detected	2600	Not Detected



Client Sample ID: VMP-15-21.5

Lab ID#: 0911502A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120413	Date of Collection: 11/18/09 2:33:00 PM
Dil. Factor:	114	Date of Analysis: 12/4/09 01:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	570	Not Detected	3100	Not Detected
Tetrachloroethene	570	Not Detected	3900	Not Detected
2-Hexanone	2300	Not Detected	9300	Not Detected
Dibromochloromethane	570	Not Detected	4800	Not Detected
1,2-Dibromoethane (EDB)	570	Not Detected	4400	Not Detected
Chlorobenzene	570	Not Detected	2600	Not Detected
Ethyl Benzene	570	Not Detected	2500	Not Detected
m,p-Xylene	570	Not Detected	2500	Not Detected
o-Xylene	570	Not Detected	2500	Not Detected
Styrene	570	Not Detected	2400	Not Detected
Bromoform	570	Not Detected	5900	Not Detected
Cumene	570	Not Detected	2800	Not Detected
1,1,1,2-Tetrachloroethane	570	Not Detected	3900	Not Detected
Propylbenzene	570	Not Detected	2800	Not Detected
4-Ethyltoluene	570	Not Detected	2800	Not Detected
1,3,5-Trimethylbenzene	570	Not Detected	2800	Not Detected
1,2,4-Trimethylbenzene	570	Not Detected	2800	Not Detected
1,3-Dichlorobenzene	570	Not Detected	3400	Not Detected
1,4-Dichlorobenzene	570	Not Detected	3400	Not Detected
alpha-Chlorotoluene	570	Not Detected	3000	Not Detected
1,2-Dichlorobenzene	570	Not Detected	3400	Not Detected
1,2,4-Trichlorobenzene	2300	Not Detected	17000	Not Detected
Hexachlorobutadiene	2300	Not Detected	24000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	127	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: VMP-15-21.5 Lab Duplicate

Lab ID#: 0911502A-05AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120414	Date of Collection:	11/18/09 2:33:00 PM
Dil. Factor:	114	Date of Analysis:	12/4/09 01:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	570	Not Detected	2800	Not Detected
Freon 114	570	Not Detected	4000	Not Detected
Chloromethane	2300	Not Detected	4700	Not Detected
Vinyl Chloride	570	Not Detected	1400	Not Detected
1,3-Butadiene	570	Not Detected	1300	Not Detected
Bromomethane	570	Not Detected	2200	Not Detected
Chloroethane	570	Not Detected	1500	Not Detected
Freon 11	570	Not Detected	3200	Not Detected
Ethanol	2300	Not Detected	4300	Not Detected
Freon 113	570	Not Detected	4400	Not Detected
1,1-Dichloroethene	570	Not Detected	2300	Not Detected
Acetone	2300	Not Detected	5400	Not Detected
2-Propanol	2300	Not Detected	5600	Not Detected
Carbon Disulfide	570	Not Detected	1800	Not Detected
3-Chloropropene	2300	Not Detected	7100	Not Detected
Methylene Chloride	570	Not Detected	2000	Not Detected
Methyl tert-butyl ether	570	Not Detected	2000	Not Detected
trans-1,2-Dichloroethene	570	Not Detected	2200	Not Detected
Hexane	570	28000	2000	97000
1,1-Dichloroethane	570	Not Detected	2300	Not Detected
2-Butanone (Methyl Ethyl Ketone)	570	Not Detected	1700	Not Detected
cis-1,2-Dichloroethene	570	Not Detected	2200	Not Detected
Tetrahydrofuran	570	Not Detected	1700	Not Detected
Chloroform	570	Not Detected	2800	Not Detected
1,1,1-Trichloroethane	570	Not Detected	3100	Not Detected
Cyclohexane	570	130000	2000	460000
Carbon Tetrachloride	570	Not Detected	3600	Not Detected
2,2,4-Trimethylpentane	570	210000	2700	990000
Benzene	570	3200	1800	10000
1,2-Dichloroethane	570	Not Detected	2300	Not Detected
Heptane	570	7500	2300	31000
Trichloroethene	570	Not Detected	3100	Not Detected
1,2-Dichloropropane	570	Not Detected	2600	Not Detected
1,4-Dioxane	2300	Not Detected	8200	Not Detected
Bromodichloromethane	570	Not Detected	3800	Not Detected
cis-1,3-Dichloropropene	570	Not Detected	2600	Not Detected
4-Methyl-2-pentanone	570	Not Detected	2300	Not Detected
Toluene	570	Not Detected	2100	Not Detected
trans-1,3-Dichloropropene	570	Not Detected	2600	Not Detected



Client Sample ID: VMP-15-21.5 Lab Duplicate

Lab ID#: 0911502A-05AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120414	Date of Collection: 11/18/09 2:33:00 PM
Dil. Factor:	114	Date of Analysis: 12/4/09 01:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	570	Not Detected	3100	Not Detected
Tetrachloroethene	570	Not Detected	3900	Not Detected
2-Hexanone	2300	Not Detected	9300	Not Detected
Dibromochloromethane	570	Not Detected	4800	Not Detected
1,2-Dibromoethane (EDB)	570	Not Detected	4400	Not Detected
Chlorobenzene	570	Not Detected	2600	Not Detected
Ethyl Benzene	570	Not Detected	2500	Not Detected
m,p-Xylene	570	Not Detected	2500	Not Detected
o-Xylene	570	Not Detected	2500	Not Detected
Styrene	570	Not Detected	2400	Not Detected
Bromoform	570	Not Detected	5900	Not Detected
Cumene	570	Not Detected	2800	Not Detected
1,1,1,2-Tetrachloroethane	570	Not Detected	3900	Not Detected
Propylbenzene	570	Not Detected	2800	Not Detected
4-Ethyltoluene	570	Not Detected	2800	Not Detected
1,3,5-Trimethylbenzene	570	Not Detected	2800	Not Detected
1,2,4-Trimethylbenzene	570	Not Detected	2800	Not Detected
1,3-Dichlorobenzene	570	Not Detected	3400	Not Detected
1,4-Dichlorobenzene	570	Not Detected	3400	Not Detected
alpha-Chlorotoluene	570	Not Detected	3000	Not Detected
1,2-Dichlorobenzene	570	Not Detected	3400	Not Detected
1,2,4-Trichlorobenzene	2300	Not Detected	17000	Not Detected
Hexachlorobutadiene	2300	Not Detected	24000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130



Client Sample ID: VMP-15-25.5

Lab ID#: 0911502A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120415	Date of Collection: 11/18/09 3:35:00 PM
Dil. Factor:	119	Date of Analysis: 12/4/09 02:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	600	Not Detected	2900	Not Detected
Freon 114	600	Not Detected	4200	Not Detected
Chloromethane	2400	Not Detected	4900	Not Detected
Vinyl Chloride	600	Not Detected	1500	Not Detected
1,3-Butadiene	600	Not Detected	1300	Not Detected
Bromomethane	600	Not Detected	2300	Not Detected
Chloroethane	600	Not Detected	1600	Not Detected
Freon 11	600	Not Detected	3300	Not Detected
Ethanol	2400	Not Detected	4500	Not Detected
Freon 113	600	Not Detected	4600	Not Detected
1,1-Dichloroethene	600	Not Detected	2400	Not Detected
Acetone	2400	Not Detected	5600	Not Detected
2-Propanol	2400	Not Detected	5800	Not Detected
Carbon Disulfide	600	Not Detected	1800	Not Detected
3-Chloropropene	2400	Not Detected	7400	Not Detected
Methylene Chloride	600	Not Detected	2100	Not Detected
Methyl tert-butyl ether	600	Not Detected	2100	Not Detected
trans-1,2-Dichloroethene	600	Not Detected	2400	Not Detected
Hexane	600	24000	2100	86000
1,1-Dichloroethane	600	Not Detected	2400	Not Detected
2-Butanone (Methyl Ethyl Ketone)	600	Not Detected	1800	Not Detected
cis-1,2-Dichloroethene	600	Not Detected	2400	Not Detected
Tetrahydrofuran	600	Not Detected	1800	Not Detected
Chloroform	600	Not Detected	2900	Not Detected
1,1,1-Trichloroethane	600	Not Detected	3200	Not Detected
Cyclohexane	600	160000	2000	560000
Carbon Tetrachloride	600	Not Detected	3700	Not Detected
2,2,4-Trimethylpentane	600	180000	2800	850000
Benzene	600	5600	1900	18000
1,2-Dichloroethane	600	Not Detected	2400	Not Detected
Heptane	600	5400	2400	22000
Trichloroethene	600	Not Detected	3200	Not Detected
1,2-Dichloropropane	600	Not Detected	2700	Not Detected
1,4-Dioxane	2400	Not Detected	8600	Not Detected
Bromodichloromethane	600	Not Detected	4000	Not Detected
cis-1,3-Dichloropropene	600	Not Detected	2700	Not Detected
4-Methyl-2-pentanone	600	Not Detected	2400	Not Detected
Toluene	600	Not Detected	2200	Not Detected
trans-1,3-Dichloropropene	600	Not Detected	2700	Not Detected



Client Sample ID: VMP-15-25.5

Lab ID#: 0911502A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120415	Date of Collection:	11/18/09 3:35:00 PM
Dil. Factor:	119	Date of Analysis:	12/4/09 02:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	600	Not Detected	3200	Not Detected
Tetrachloroethene	600	Not Detected	4000	Not Detected
2-Hexanone	2400	Not Detected	9700	Not Detected
Dibromochloromethane	600	Not Detected	5100	Not Detected
1,2-Dibromoethane (EDB)	600	Not Detected	4600	Not Detected
Chlorobenzene	600	Not Detected	2700	Not Detected
Ethyl Benzene	600	Not Detected	2600	Not Detected
m,p-Xylene	600	Not Detected	2600	Not Detected
o-Xylene	600	Not Detected	2600	Not Detected
Styrene	600	Not Detected	2500	Not Detected
Bromoform	600	Not Detected	6200	Not Detected
Cumene	600	Not Detected	2900	Not Detected
1,1,1,2-Tetrachloroethane	600	Not Detected	4100	Not Detected
Propylbenzene	600	Not Detected	2900	Not Detected
4-Ethyltoluene	600	Not Detected	2900	Not Detected
1,3,5-Trimethylbenzene	600	Not Detected	2900	Not Detected
1,2,4-Trimethylbenzene	600	Not Detected	2900	Not Detected
1,3-Dichlorobenzene	600	Not Detected	3600	Not Detected
1,4-Dichlorobenzene	600	Not Detected	3600	Not Detected
alpha-Chlorotoluene	600	Not Detected	3100	Not Detected
1,2-Dichlorobenzene	600	Not Detected	3600	Not Detected
1,2,4-Trichlorobenzene	2400	Not Detected	18000	Not Detected
Hexachlorobutadiene	2400	Not Detected	25000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: VMP-16-13.5

Lab ID#: 0911502A-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120416	Date of Collection: 11/19/09 12:18:00 P
Dil. Factor:	14.9	Date of Analysis: 12/4/09 02:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	74	Not Detected	370	Not Detected
Freon 114	74	Not Detected	520	Not Detected
Chloromethane	300	Not Detected	620	Not Detected
Vinyl Chloride	74	Not Detected	190	Not Detected
1,3-Butadiene	74	Not Detected	160	Not Detected
Bromomethane	74	Not Detected	290	Not Detected
Chloroethane	74	Not Detected	200	Not Detected
Freon 11	74	Not Detected	420	Not Detected
Ethanol	300	Not Detected	560	Not Detected
Freon 113	74	Not Detected	570	Not Detected
1,1-Dichloroethene	74	Not Detected	300	Not Detected
Acetone	300	Not Detected	710	Not Detected
2-Propanol	300	Not Detected	730	Not Detected
Carbon Disulfide	74	Not Detected	230	Not Detected
3-Chloropropene	300	Not Detected	930	Not Detected
Methylene Chloride	74	Not Detected	260	Not Detected
Methyl tert-butyl ether	74	Not Detected	270	Not Detected
trans-1,2-Dichloroethene	74	Not Detected	300	Not Detected
Hexane	74	Not Detected	260	Not Detected
1,1-Dichloroethane	74	Not Detected	300	Not Detected
2-Butanone (Methyl Ethyl Ketone)	74	Not Detected	220	Not Detected
cis-1,2-Dichloroethene	74	Not Detected	300	Not Detected
Tetrahydrofuran	74	Not Detected	220	Not Detected
Chloroform	74	Not Detected	360	Not Detected
1,1,1-Trichloroethane	74	Not Detected	410	Not Detected
Cyclohexane	74	300	260	1000
Carbon Tetrachloride	74	Not Detected	470	Not Detected
2,2,4-Trimethylpentane	74	17000	350	82000
Benzene	74	220	240	690
1,2-Dichloroethane	74	Not Detected	300	Not Detected
Heptane	74	Not Detected	300	Not Detected
Trichloroethene	74	Not Detected	400	Not Detected
1,2-Dichloropropane	74	Not Detected	340	Not Detected
1,4-Dioxane	300	Not Detected	1100	Not Detected
Bromodichloromethane	74	Not Detected	500	Not Detected
cis-1,3-Dichloropropene	74	Not Detected	340	Not Detected
4-Methyl-2-pentanone	74	Not Detected	300	Not Detected
Toluene	74	120	280	460
trans-1,3-Dichloropropene	74	Not Detected	340	Not Detected



Client Sample ID: VMP-16-13.5

Lab ID#: 0911502A-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120416	Date of Collection: 11/19/09 12:18:00 P
Dil. Factor:	14.9	Date of Analysis: 12/4/09 02:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	74	Not Detected	410	Not Detected
Tetrachloroethene	74	Not Detected	500	Not Detected
2-Hexanone	300	Not Detected	1200	Not Detected
Dibromochloromethane	74	Not Detected	630	Not Detected
1,2-Dibromoethane (EDB)	74	Not Detected	570	Not Detected
Chlorobenzene	74	Not Detected	340	Not Detected
Ethyl Benzene	74	Not Detected	320	Not Detected
m,p-Xylene	74	Not Detected	320	Not Detected
o-Xylene	74	Not Detected	320	Not Detected
Styrene	74	Not Detected	320	Not Detected
Bromoform	74	Not Detected	770	Not Detected
Cumene	74	Not Detected	370	Not Detected
1,1,2,2-Tetrachloroethane	74	Not Detected	510	Not Detected
Propylbenzene	74	Not Detected	370	Not Detected
4-Ethyltoluene	74	Not Detected	370	Not Detected
1,3,5-Trimethylbenzene	74	Not Detected	370	Not Detected
1,2,4-Trimethylbenzene	74	Not Detected	370	Not Detected
1,3-Dichlorobenzene	74	Not Detected	450	Not Detected
1,4-Dichlorobenzene	74	Not Detected	450	Not Detected
alpha-Chlorotoluene	74	Not Detected	380	Not Detected
1,2-Dichlorobenzene	74	Not Detected	450	Not Detected
1,2,4-Trichlorobenzene	300	Not Detected	2200	Not Detected
Hexachlorobutadiene	300	Not Detected	3200	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	102	70-130



Client Sample ID: VMP-16-19

Lab ID#: 0911502A-08A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120418	Date of Collection:	11/19/09 1:23:00 PM
Dil. Factor:	129	Date of Analysis:	12/4/09 03:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	640	Not Detected	3200	Not Detected
Freon 114	640	Not Detected	4500	Not Detected
Chloromethane	2600	Not Detected	5300	Not Detected
Vinyl Chloride	640	Not Detected	1600	Not Detected
1,3-Butadiene	640	Not Detected	1400	Not Detected
Bromomethane	640	Not Detected	2500	Not Detected
Chloroethane	640	Not Detected	1700	Not Detected
Freon 11	640	Not Detected	3600	Not Detected
Ethanol	2600	Not Detected	4900	Not Detected
Freon 113	640	Not Detected	4900	Not Detected
1,1-Dichloroethene	640	Not Detected	2600	Not Detected
Acetone	2600	Not Detected	6100	Not Detected
2-Propanol	2600	Not Detected	6300	Not Detected
Carbon Disulfide	640	Not Detected	2000	Not Detected
3-Chloropropene	2600	Not Detected	8100	Not Detected
Methylene Chloride	640	Not Detected	2200	Not Detected
Methyl tert-butyl ether	640	Not Detected	2300	Not Detected
trans-1,2-Dichloroethene	640	Not Detected	2600	Not Detected
Hexane	640	Not Detected	2300	Not Detected
1,1-Dichloroethane	640	Not Detected	2600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	640	Not Detected	1900	Not Detected
cis-1,2-Dichloroethene	640	Not Detected	2600	Not Detected
Tetrahydrofuran	640	Not Detected	1900	Not Detected
Chloroform	640	Not Detected	3100	Not Detected
1,1,1-Trichloroethane	640	Not Detected	3500	Not Detected
Cyclohexane	640	2400	2200	8200
Carbon Tetrachloride	640	Not Detected	4000	Not Detected
2,2,4-Trimethylpentane	640	190000	3000	910000
Benzene	640	1400	2100	4600
1,2-Dichloroethane	640	Not Detected	2600	Not Detected
Heptane	640	Not Detected	2600	Not Detected
Trichloroethene	640	Not Detected	3500	Not Detected
1,2-Dichloropropane	640	Not Detected	3000	Not Detected
1,4-Dioxane	2600	Not Detected	9300	Not Detected
Bromodichloromethane	640	Not Detected	4300	Not Detected
cis-1,3-Dichloropropene	640	Not Detected	2900	Not Detected
4-Methyl-2-pentanone	640	Not Detected	2600	Not Detected
Toluene	640	Not Detected	2400	Not Detected
trans-1,3-Dichloropropene	640	Not Detected	2900	Not Detected



Client Sample ID: VMP-16-19

Lab ID#: 0911502A-08A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120418	Date of Collection: 11/19/09 1:23:00 PM
Dil. Factor:	129	Date of Analysis: 12/4/09 03:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	640	Not Detected	3500	Not Detected
Tetrachloroethene	640	Not Detected	4400	Not Detected
2-Hexanone	2600	Not Detected	10000	Not Detected
Dibromochloromethane	640	Not Detected	5500	Not Detected
1,2-Dibromoethane (EDB)	640	Not Detected	5000	Not Detected
Chlorobenzene	640	Not Detected	3000	Not Detected
Ethyl Benzene	640	Not Detected	2800	Not Detected
m,p-Xylene	640	Not Detected	2800	Not Detected
o-Xylene	640	Not Detected	2800	Not Detected
Styrene	640	Not Detected	2700	Not Detected
Bromoform	640	Not Detected	6700	Not Detected
Cumene	640	Not Detected	3200	Not Detected
1,1,1,2-Tetrachloroethane	640	Not Detected	4400	Not Detected
Propylbenzene	640	Not Detected	3200	Not Detected
4-Ethyltoluene	640	Not Detected	3200	Not Detected
1,3,5-Trimethylbenzene	640	Not Detected	3200	Not Detected
1,2,4-Trimethylbenzene	640	Not Detected	3200	Not Detected
1,3-Dichlorobenzene	640	Not Detected	3900	Not Detected
1,4-Dichlorobenzene	640	Not Detected	3900	Not Detected
alpha-Chlorotoluene	640	Not Detected	3300	Not Detected
1,2-Dichlorobenzene	640	Not Detected	3900	Not Detected
1,2,4-Trichlorobenzene	2600	Not Detected	19000	Not Detected
Hexachlorobutadiene	2600	Not Detected	28000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130



Client Sample ID: VMP-16-31

Lab ID#: 0911502A-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120420	Date of Collection: 11/19/09 2:22:00 PM
Dil. Factor:	194	Date of Analysis: 12/4/09 04:57 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	970	Not Detected	4800	Not Detected
Freon 114	970	Not Detected	6800	Not Detected
Chloromethane	3900	Not Detected	8000	Not Detected
Vinyl Chloride	970	Not Detected	2500	Not Detected
1,3-Butadiene	970	Not Detected	2100	Not Detected
Bromomethane	970	Not Detected	3800	Not Detected
Chloroethane	970	Not Detected	2600	Not Detected
Freon 11	970	Not Detected	5400	Not Detected
Ethanol	3900	Not Detected	7300	Not Detected
Freon 113	970	Not Detected	7400	Not Detected
1,1-Dichloroethene	970	Not Detected	3800	Not Detected
Acetone	3900	Not Detected	9200	Not Detected
2-Propanol	3900	Not Detected	9500	Not Detected
Carbon Disulfide	970	Not Detected	3000	Not Detected
3-Chloropropene	3900	Not Detected	12000	Not Detected
Methylene Chloride	970	Not Detected	3400	Not Detected
Methyl tert-butyl ether	970	Not Detected	3500	Not Detected
trans-1,2-Dichloroethene	970	Not Detected	3800	Not Detected
Hexane	970	Not Detected	3400	Not Detected
1,1-Dichloroethane	970	Not Detected	3900	Not Detected
2-Butanone (Methyl Ethyl Ketone)	970	Not Detected	2900	Not Detected
cis-1,2-Dichloroethene	970	Not Detected	3800	Not Detected
Tetrahydrofuran	970	Not Detected	2900	Not Detected
Chloroform	970	Not Detected	4700	Not Detected
1,1,1-Trichloroethane	970	Not Detected	5300	Not Detected
Cyclohexane	970	4400	3300	15000 ^{5"}
Carbon Tetrachloride	970	Not Detected	6100	Not Detected
2,2,4-Trimethylpentane	970	510000 E	4500	2400000 E ^{5"}
Benzene	970	Not Detected	3100	Not Detected
1,2-Dichloroethane	970	Not Detected	3900	Not Detected
Heptane	970	Not Detected	4000	Not Detected
Trichloroethene	970	Not Detected	5200	Not Detected
1,2-Dichloropropane	970	Not Detected	4500	Not Detected
1,4-Dioxane	3900	Not Detected	14000	Not Detected
Bromodichloromethane	970	Not Detected	6500	Not Detected
cis-1,3-Dichloropropene	970	Not Detected	4400	Not Detected
4-Methyl-2-pentanone	970	Not Detected	4000	Not Detected
Toluene	970	Not Detected	3600	Not Detected
trans-1,3-Dichloropropene	970	Not Detected	4400	Not Detected



Client Sample ID: VMP-16-31

Lab ID#: 0911502A-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120420	Date of Collection:	11/19/09 2:22:00 PM
Dil. Factor:	194	Date of Analysis:	12/4/09 04:57 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	970	Not Detected	5300	Not Detected
Tetrachloroethene	970	Not Detected	6600	Not Detected
2-Hexanone	3900	Not Detected	16000	Not Detected
Dibromochloromethane	970	Not Detected	8300	Not Detected
1,2-Dibromoethane (EDB)	970	Not Detected	7400	Not Detected
Chlorobenzene	970	Not Detected	4500	Not Detected
Ethyl Benzene	970	Not Detected	4200	Not Detected
m,p-Xylene	970	Not Detected	4200	Not Detected
o-Xylene	970	Not Detected	4200	Not Detected
Styrene	970	Not Detected	4100	Not Detected
Bromoform	970	Not Detected	10000	Not Detected
Cumene	970	Not Detected	4800	Not Detected
1,1,2,2-Tetrachloroethane	970	Not Detected	6600	Not Detected
Propylbenzene	970	Not Detected	4800	Not Detected
4-Ethyltoluene	970	Not Detected	4800	Not Detected
1,3,5-Trimethylbenzene	970	Not Detected	4800	Not Detected
1,2,4-Trimethylbenzene	970	Not Detected	4800	Not Detected
1,3-Dichlorobenzene	970	Not Detected	5800	Not Detected
1,4-Dichlorobenzene	970	Not Detected	5800	Not Detected
alpha-Chlorotoluene	970	Not Detected	5000	Not Detected
1,2-Dichlorobenzene	970	Not Detected	5800	Not Detected
1,2,4-Trichlorobenzene	3900	Not Detected	29000	Not Detected
Hexachlorobutadiene	3900	Not Detected	41000	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130



Client Sample ID: VMP-16-31-D

Lab ID#: 0911502A-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120827	Date of Collection: 11/19/09 2:20:00 PM
Dil. Factor:	194	Date of Analysis: 12/8/09 09:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	970	Not Detected	4800	Not Detected
Freon 114	970	Not Detected	6800	Not Detected
Chloromethane	3900	Not Detected	8000	Not Detected
Vinyl Chloride	970	Not Detected	2500	Not Detected
1,3-Butadiene	970	Not Detected	2100	Not Detected
Bromomethane	970	Not Detected	3800	Not Detected
Chloroethane	970	Not Detected	2600	Not Detected
Freon 11	970	Not Detected	5400	Not Detected
Ethanol	3900	Not Detected	7300	Not Detected
Freon 113	970	Not Detected	7400	Not Detected
1,1-Dichloroethene	970	Not Detected	3800	Not Detected
Acetone	3900	Not Detected	9200	Not Detected
2-Propanol	3900	Not Detected	9500	Not Detected
Carbon Disulfide	970	Not Detected	3000	Not Detected
3-Chloropropene	3900	Not Detected	12000	Not Detected
Methylene Chloride	970	Not Detected	3400	Not Detected
Methyl tert-butyl ether	970	Not Detected	3500	Not Detected
trans-1,2-Dichloroethene	970	Not Detected	3800	Not Detected
Hexane	970	Not Detected	3400	Not Detected
1,1-Dichloroethane	970	Not Detected	3900	Not Detected
2-Butanone (Methyl Ethyl Ketone)	970	Not Detected	2900	Not Detected
cis-1,2-Dichloroethene	970	Not Detected	3800	Not Detected
Tetrahydrofuran	970	Not Detected	2900	Not Detected
Chloroform	970	Not Detected	4700	Not Detected
1,1,1-Trichloroethane	970	Not Detected	5300	Not Detected
Cyclohexane	970	Not Detected	3300	Not Detected
Carbon Tetrachloride	970	Not Detected	6100	Not Detected
2,2,4-Trimethylpentane	970	490000 E	4500	2300000 E
Benzene	970	Not Detected	3100	Not Detected
1,2-Dichloroethane	970	Not Detected	3900	Not Detected
Heptane	970	Not Detected	4000	Not Detected
Trichloroethene	970	Not Detected	5200	Not Detected
1,2-Dichloropropane	970	Not Detected	4500	Not Detected
1,4-Dioxane	3900	Not Detected	14000	Not Detected
Bromodichloromethane	970	Not Detected	6500	Not Detected
cis-1,3-Dichloropropene	970	Not Detected	4400	Not Detected
4-Methyl-2-pentanone	970	Not Detected	4000	Not Detected
Toluene	970	Not Detected	3600	Not Detected
trans-1,3-Dichloropropene	970	Not Detected	4400	Not Detected

— "uJ"
— "J"



Client Sample ID: VMP-16-31-D

Lab ID#: 0911502A-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120827	Date of Collection:	11/19/09 2:20:00 PM
Dil. Factor:	194	Date of Analysis:	12/8/09 09:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	970	Not Detected	5300	Not Detected
Tetrachloroethene	970	Not Detected	6600	Not Detected
2-Hexanone	3900	Not Detected	16000	Not Detected
Dibromochloromethane	970	Not Detected	8300	Not Detected
1,2-Dibromoethane (EDB)	970	Not Detected	7400	Not Detected
Chlorobenzene	970	Not Detected	4500	Not Detected
Ethyl Benzene	970	Not Detected	4200	Not Detected
m,p-Xylene	970	Not Detected	4200	Not Detected
o-Xylene	970	Not Detected	4200	Not Detected
Styrene	970	Not Detected	4100	Not Detected
Bromoform	970	Not Detected	10000	Not Detected
Cumene	970	Not Detected	4800	Not Detected
1,1,2,2-Tetrachloroethane	970	Not Detected	6600	Not Detected
Propylbenzene	970	Not Detected	4800	Not Detected
4-Ethyltoluene	970	Not Detected	4800	Not Detected
1,3,5-Trimethylbenzene	970	Not Detected	4800	Not Detected
1,2,4-Trimethylbenzene	970	Not Detected	4800	Not Detected
1,3-Dichlorobenzene	970	Not Detected	5800	Not Detected
1,4-Dichlorobenzene	970	Not Detected	5800	Not Detected
alpha-Chlorotoluene	970	Not Detected	5000	Not Detected
1,2-Dichlorobenzene	970	Not Detected	5800	Not Detected
1,2,4-Trichlorobenzene	3900	Not Detected	29000	Not Detected
Hexachlorobutadiene	3900	Not Detected	41000	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: VMP-15-29

Lab ID#: 0911502A-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120829	Date of Collection:	11/19/09 8:39:00 AM
Dil. Factor:	149	Date of Analysis:	12/8/09 10:54 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	740	Not Detected	3700	Not Detected
Freon 114	740	Not Detected	5200	Not Detected
Chloromethane	3000	Not Detected	6200	Not Detected
Vinyl Chloride	740	Not Detected	1900	Not Detected
1,3-Butadiene	740	Not Detected	1600	Not Detected
Bromomethane	740	Not Detected	2900	Not Detected
Chloroethane	740	Not Detected	2000	Not Detected
Freon 11	740	Not Detected	4200	Not Detected
Ethanol	3000	Not Detected	5600	Not Detected
Freon 113	740	Not Detected	5700	Not Detected
1,1-Dichloroethene	740	Not Detected	3000	Not Detected
Acetone	3000	Not Detected	7100	Not Detected
2-Propanol	3000	Not Detected	7300	Not Detected
Carbon Disulfide	740	Not Detected	2300	Not Detected
3-Chloropropene	3000	Not Detected	9300	Not Detected
Methylene Chloride	740	Not Detected	2600	Not Detected
Methyl tert-butyl ether	740	Not Detected	2700	Not Detected
trans-1,2-Dichloroethene	740	Not Detected	3000	Not Detected
Hexane	740	32000	2600	110000
1,1-Dichloroethane	740	Not Detected	3000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	740	Not Detected	2200	Not Detected
cis-1,2-Dichloroethene	740	Not Detected	3000	Not Detected
Tetrahydrofuran	740	Not Detected	2200	Not Detected
Chloroform	740	Not Detected	3600	Not Detected
1,1,1-Trichloroethane	740	Not Detected	4100	Not Detected
Cyclohexane	740	190000	2600	640000
Carbon Tetrachloride	740	Not Detected	4700	Not Detected
2,2,4-Trimethylpentane	740	190000	3500	880000
Benzene	740	9300	2400	30000
1,2-Dichloroethane	740	Not Detected	3000	Not Detected
Heptane	740	7800	3000	32000
Trichloroethene	740	Not Detected	4000	Not Detected
1,2-Dichloropropane	740	Not Detected	3400	Not Detected
1,4-Dioxane	3000	Not Detected	11000	Not Detected
Bromodichloromethane	740	Not Detected	5000	Not Detected
cis-1,3-Dichloropropene	740	Not Detected	3400	Not Detected
4-Methyl-2-pentanone	740	Not Detected	3000	Not Detected
Toluene	740	Not Detected	2800	Not Detected
trans-1,3-Dichloropropene	740	Not Detected	3400	Not Detected



Client Sample ID: VMP-15-29

Lab ID#: 0911502A-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120829	Date of Collection: 11/19/09 8:39:00 AM
Dil. Factor:	149	Date of Analysis: 12/8/09 10:54 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	740	Not Detected	4100	Not Detected
Tetrachloroethene	740	Not Detected	5000	Not Detected
2-Hexanone	3000	Not Detected	12000	Not Detected
Dibromochloromethane	740	Not Detected	6300	Not Detected
1,2-Dibromoethane (EDB)	740	Not Detected	5700	Not Detected
Chlorobenzene	740	Not Detected	3400	Not Detected
Ethyl Benzene	740	Not Detected	3200	Not Detected
m,p-Xylene	740	Not Detected	3200	Not Detected
o-Xylene	740	Not Detected	3200	Not Detected
Styrene	740	Not Detected	3200	Not Detected
Bromoform	740	Not Detected	7700	Not Detected
Cumene	740	Not Detected	3700	Not Detected
1,1,1,2-Tetrachloroethane	740	Not Detected	5100	Not Detected
Propylbenzene	740	Not Detected	3700	Not Detected
4-Ethyltoluene	740	Not Detected	3700	Not Detected
1,3,5-Trimethylbenzene	740	Not Detected	3700	Not Detected
1,2,4-Trimethylbenzene	740	Not Detected	3700	Not Detected
1,3-Dichlorobenzene	740	Not Detected	4500	Not Detected
1,4-Dichlorobenzene	740	Not Detected	4500	Not Detected
alpha-Chlorotoluene	740	Not Detected	3800	Not Detected
1,2-Dichlorobenzene	740	Not Detected	4500	Not Detected
1,2,4-Trichlorobenzene	3000	Not Detected	22000	Not Detected
Hexachlorobutadiene	3000	Not Detected	32000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130



Client Sample ID: VMP-14-5

Lab ID#: 0911502A-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120708	Date of Collection:	11/20/09 11:47:00 A
Dil. Factor:	5.16	Date of Analysis:	12/7/09 04:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.6	Not Detected	13	Not Detected
Freon 114	2.6	Not Detected	18	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
Vinyl Chloride	2.6	Not Detected	6.6	Not Detected
1,3-Butadiene	2.6	Not Detected	5.7	Not Detected
Bromomethane	2.6	Not Detected	10	Not Detected
Chloroethane	2.6	Not Detected	6.8	Not Detected
Freon 11	2.6	Not Detected	14	Not Detected
Ethanol	10	Not Detected	19	Not Detected
Freon 113	2.6	Not Detected	20	Not Detected
1,1-Dichloroethene	2.6	Not Detected	10	Not Detected
Acetone	10	Not Detected	24	Not Detected
2-Propanol	10	Not Detected	25	Not Detected
Carbon Disulfide	2.6	Not Detected	8.0	Not Detected
3-Chloropropene	10	Not Detected	32	Not Detected
Methylene Chloride	2.6	Not Detected	9.0	Not Detected
Methyl tert-butyl ether	2.6	Not Detected	9.3	Not Detected
trans-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
Hexane	2.6	4.4	9.1	15
1,1-Dichloroethane	2.6	Not Detected	10	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.6	Not Detected	7.6	Not Detected
cis-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
Tetrahydrofuran	2.6	Not Detected	7.6	Not Detected
Chloroform	2.6	Not Detected	12	Not Detected
1,1,1-Trichloroethane	2.6	Not Detected	14	Not Detected
Cyclohexane	2.6	Not Detected	8.9	Not Detected
Carbon Tetrachloride	2.6	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	2.6	190	12	880
Benzene	2.6	6.7	8.2	21
1,2-Dichloroethane	2.6	Not Detected	10	Not Detected
Heptane	2.6	Not Detected	10	Not Detected
Trichloroethene	2.6	Not Detected	14	Not Detected
1,2-Dichloropropane	2.6	Not Detected	12	Not Detected
1,4-Dioxane	10	Not Detected	37	Not Detected
Bromodichloromethane	2.6	Not Detected	17	Not Detected
cis-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected
4-Methyl-2-pentanone	2.6	Not Detected	10	Not Detected
Toluene	2.6	Not Detected	9.7	Not Detected
trans-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected

Client Sample ID: VMP-14-5

Lab ID#: 0911502A-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120708	Date of Collection: 11/20/09 11:47:00 A
Dil. Factor:	5.16	Date of Analysis: 12/7/09 04:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	2.6	Not Detected	14	Not Detected
Tetrachloroethene	2.6	Not Detected	18	Not Detected
2-Hexanone	10	Not Detected	42	Not Detected
Dibromochloromethane	2.6	Not Detected	22	Not Detected
1,2-Dibromoethane (EDB)	2.6	Not Detected	20	Not Detected
Chlorobenzene	2.6	Not Detected	12	Not Detected
Ethyl Benzene	2.6	Not Detected	11	Not Detected
m,p-Xylene	2.6	Not Detected	11	Not Detected
o-Xylene	2.6	Not Detected	11	Not Detected
Styrene	2.6	Not Detected	11	Not Detected
Bromoform	2.6	Not Detected	27	Not Detected
Cumene	2.6	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	2.6	Not Detected	18	Not Detected
Propylbenzene	2.6	Not Detected	13	Not Detected
4-Ethyltoluene	2.6	Not Detected	13	Not Detected
1,3,5-Trimethylbenzene	2.6	Not Detected	13	Not Detected
1,2,4-Trimethylbenzene	2.6	Not Detected	13	Not Detected
1,3-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	16	Not Detected
alpha-Chlorotoluene	2.6	Not Detected	13	Not Detected
1,2-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	10	Not Detected	76	Not Detected
Hexachlorobutadiene	10	Not Detected	110	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: VMP-16-5

Lab ID#: 0911502A-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120709	Date of Collection:	11/20/09 9:22:00 AM
Dil. Factor:	33.7	Date of Analysis:	12/7/09 04:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	17	Not Detected	83	Not Detected
Freon 114	17	Not Detected	120	Not Detected
Chloromethane	67	Not Detected	140	Not Detected
Vinyl Chloride	17	Not Detected	43	Not Detected
1,3-Butadiene	17	Not Detected	37	Not Detected
Bromomethane	17	Not Detected	65	Not Detected
Chloroethane	17	Not Detected	44	Not Detected
Freon 11	17	Not Detected	95	Not Detected
Ethanol	67	Not Detected	130	Not Detected
Freon 113	17	Not Detected	130	Not Detected
1,1-Dichloroethene	17	Not Detected	67	Not Detected
Acetone	67	Not Detected	160	Not Detected
2-Propanol	67	Not Detected	160	Not Detected
Carbon Disulfide	17	Not Detected	52	Not Detected
3-Chloropropene	67	Not Detected	210	Not Detected
Methylene Chloride	17	Not Detected	58	Not Detected
Methyl tert-butyl ether	17	Not Detected	61	Not Detected
trans-1,2-Dichloroethene	17	Not Detected	67	Not Detected
Hexane	17	Not Detected	59	Not Detected
1,1-Dichloroethane	17	Not Detected	68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	17	Not Detected	50	Not Detected
cis-1,2-Dichloroethene	17	Not Detected	67	Not Detected
Tetrahydrofuran	17	Not Detected	50	Not Detected
Chloroform	17	Not Detected	82	Not Detected
1,1,1-Trichloroethane	17	Not Detected	92	Not Detected
Cyclohexane	17	Not Detected	58	Not Detected
Carbon Tetrachloride	17	Not Detected	110	Not Detected
2,2,4-Trimethylpentane	17	3500	79	16000
Benzene	17	40	54	130
1,2-Dichloroethane	17	Not Detected	68	Not Detected
Heptane	17	Not Detected	69	Not Detected
Trichloroethene	17	Not Detected	90	Not Detected
1,2-Dichloropropane	17	Not Detected	78	Not Detected
1,4-Dioxane	67	Not Detected	240	Not Detected
Bromodichloromethane	17	Not Detected	110	Not Detected
cis-1,3-Dichloropropene	17	Not Detected	76	Not Detected
4-Methyl-2-pentanone	17	Not Detected	69	Not Detected
Toluene	17	33	63	120
trans-1,3-Dichloropropene	17	Not Detected	76	Not Detected



Client Sample ID: VMP-16-5

Lab ID#: 0911502A-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120709	Date of Collection: 11/20/09 9:22:00 AM
Dil. Factor:	33.7	Date of Analysis: 12/7/09 04:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	17	Not Detected	92	Not Detected
Tetrachloroethene	17	Not Detected	110	Not Detected
2-Hexanone	67	Not Detected	280	Not Detected
Dibromochloromethane	17	Not Detected	140	Not Detected
1,2-Dibromoethane (EDB)	17	Not Detected	130	Not Detected
Chlorobenzene	17	Not Detected	78	Not Detected
Ethyl Benzene	17	Not Detected	73	Not Detected
m,p-Xylene	17	Not Detected	73	Not Detected
o-Xylene	17	Not Detected	73	Not Detected
Styrene	17	Not Detected	72	Not Detected
Bromoform	17	Not Detected	170	Not Detected
Cumene	17	Not Detected	83	Not Detected
1,1,2,2-Tetrachloroethane	17	Not Detected	120	Not Detected
Propylbenzene	17	Not Detected	83	Not Detected
4-Ethyltoluene	17	Not Detected	83	Not Detected
1,3,5-Trimethylbenzene	17	Not Detected	83	Not Detected
1,2,4-Trimethylbenzene	17	Not Detected	83	Not Detected
1,3-Dichlorobenzene	17	Not Detected	100	Not Detected
1,4-Dichlorobenzene	17	Not Detected	100	Not Detected
alpha-Chlorotoluene	17	Not Detected	87	Not Detected
1,2-Dichlorobenzene	17	Not Detected	100	Not Detected
1,2,4-Trichlorobenzene	67	Not Detected	500	Not Detected
Hexachlorobutadiene	67	Not Detected	720	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: Lab Blank

Lab ID#: 0911502A-14A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120405	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/4/09 08:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 0911502A-14A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120405	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/4/09 08:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: Lab Blank

Lab ID#: 0911502A-14B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/7/09 01:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 0911502A-14B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/7/09 01:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,1,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: Lab Blank

Lab ID#: 0911502A-14C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120805	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/8/09 07:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 0911502A-14C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120805	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/8/09 07:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: CCV

Lab ID#: 0911502A-15A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/4/09 06:57 AM

Compound	%Recovery
Freon 12	98
Freon 114	104
Chloromethane	93
Vinyl Chloride	104
1,3-Butadiene	108
Bromomethane	110
Chloroethane	102
Freon 11	104
Ethanol	102
Freon 113	106
1,1-Dichloroethene	105
Acetone	104
2-Propanol	100
Carbon Disulfide	104
3-Chloropropene	106
Methylene Chloride	100
Methyl tert-butyl ether	130
trans-1,2-Dichloroethene	107
Hexane	108
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	105
Tetrahydrofuran	103
Chloroform	102
1,1,1-Trichloroethane	102
Cyclohexane	110
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	110
Benzene	101
1,2-Dichloroethane	100
Heptane	111
Trichloroethene	102
1,2-Dichloropropane	102
1,4-Dioxane	105
Bromodichloromethane	100
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	113
Toluene	100
trans-1,3-Dichloropropene	107

Client Sample ID: CCV

Lab ID#: 0911502A-15A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/4/09 06:57 AM

Compound	%Recovery
1,1,2-Trichloroethane	102
Tetrachloroethene	104
2-Hexanone	107
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	106
Chlorobenzene	102
Ethyl Benzene	107
m,p-Xylene	106
o-Xylene	107
Styrene	111
Bromoform	107
Cumene	114
1,1,1,2-Tetrachloroethane	100
Propylbenzene	108
4-Ethyltoluene	113
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: CCV

Lab ID#: 0911502A-15B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/7/09 11:54 AM

Compound	%Recovery
Freon 12	98
Freon 114	99
Chloromethane	102
Vinyl Chloride	100
1,3-Butadiene	98
Bromomethane	104
Chloroethane	102
Freon 11	96
Ethanol	103
Freon 113	99
1,1-Dichloroethene	100
Acetone	103
2-Propanol	103
Carbon Disulfide	104
3-Chloropropene	106
Methylene Chloride	98
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	96
Hexane	106
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	101
Tetrahydrofuran	104
Chloroform	93
1,1,1-Trichloroethane	98
Cyclohexane	104
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	104
Benzene	97
1,2-Dichloroethane	99
Heptane	108
Trichloroethene	98
1,2-Dichloropropane	101
1,4-Dioxane	104
Bromodichloromethane	98
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	110
Toluene	100
trans-1,3-Dichloropropene	110

Client Sample ID: CCV

Lab ID#: 0911502A-15B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/7/09 11:54 AM

Compound	%Recovery
1,1,2-Trichloroethane	101
Tetrachloroethene	103
2-Hexanone	110
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	102
Chlorobenzene	99
Ethyl Benzene	104
m,p-Xylene	104
o-Xylene	106
Styrene	111
Bromoform	106
Cumene	103
1,1,2,2-Tetrachloroethane	98
Propylbenzene	102
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	89
1,2,4-Trimethylbenzene	87
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	109
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	72
Hexachlorobutadiene	81

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: CCV

Lab ID#: 0911502A-15C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/8/09 06:46 AM

Compound	%Recovery
Freon 12	103
Freon 114	103
Chloromethane	94
Vinyl Chloride	104
1,3-Butadiene	108
Bromomethane	113
Chloroethane	108
Freon 11	106
Ethanol	110
Freon 113	106
1,1-Dichloroethene	109
Acetone	108
2-Propanol	96
Carbon Disulfide	106
3-Chloropropene	112
Methylene Chloride	104
Methyl tert-butyl ether	117
trans-1,2-Dichloroethene	107
Hexane	110
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	110
cis-1,2-Dichloroethene	109
Tetrahydrofuran	106
Chloroform	104
1,1,1-Trichloroethane	105
Cyclohexane	112
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	110
Benzene	101
1,2-Dichloroethane	100
Heptane	110
Trichloroethene	101
1,2-Dichloropropane	103
1,4-Dioxane	102
Bromodichloromethane	100
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	109
Toluene	101
trans-1,3-Dichloropropene	106

Client Sample ID: CCV

Lab ID#: 0911502A-15C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/8/09 06:46 AM

Compound	%Recovery
1,1,2-Trichloroethane	103
Tetrachloroethene	102
2-Hexanone	105
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	105
Chlorobenzene	102
Ethyl Benzene	105
m,p-Xylene	106
o-Xylene	109
Styrene	110
Bromoform	102
Cumene	114
1,1,2,2-Tetrachloroethane	104
Propylbenzene	109
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	113
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: LCS

Lab ID#: 0911502A-16A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/4/09 07:40 AM

Compound	%Recovery
Freon 12	81
Freon 114	84
Chloromethane	79
Vinyl Chloride	77
1,3-Butadiene	75
Bromomethane	82
Chloroethane	81
Freon 11	83
Ethanol	142 Q
Freon 113	76
1,1-Dichloroethene	75
Acetone	84
2-Propanol	72
Carbon Disulfide	82
3-Chloropropene	84
Methylene Chloride	73
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	83
Hexane	84
1,1-Dichloroethane	78
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	87
Tetrahydrofuran	83
Chloroform	78
1,1,1-Trichloroethane	79
Cyclohexane	85
Carbon Tetrachloride	82
2,2,4-Trimethylpentane	86
Benzene	80
1,2-Dichloroethane	78
Heptane	85
Trichloroethene	79
1,2-Dichloropropane	83
1,4-Dioxane	85
Bromodichloromethane	80
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	90
Toluene	76
trans-1,3-Dichloropropene	85

Client Sample ID: LCS

Lab ID#: 0911502A-16A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/4/09 07:40 AM

Compound	%Recovery
1,1,2-Trichloroethane	84
Tetrachloroethene	83
2-Hexanone	88
Dibromochloromethane	84
1,2-Dibromoethane (EDB)	88
Chlorobenzene	83
Ethyl Benzene	86
m,p-Xylene	88
o-Xylene	88
Styrene	90
Bromoform	86
Cumene	90
1,1,1,2-Tetrachloroethane	87
Propylbenzene	87
4-Ethyltoluene	91
1,3,5-Trimethylbenzene	85
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	86
1,4-Dichlorobenzene	90
alpha-Chlorotoluene	96
1,2-Dichlorobenzene	89
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	94

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: LCS

Lab ID#: 0911502A-16B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/7/09 12:42 PM

Compound	%Recovery
Freon 12	95
Freon 114	97
Chloromethane	98
Vinyl Chloride	98
1,3-Butadiene	95
Bromomethane	101
Chloroethane	100
Freon 11	93
Ethanol	168 Q
Freon 113	85
1,1-Dichloroethene	86
Acetone	98
2-Propanol	95
Carbon Disulfide	100
3-Chloropropene	103
Methylene Chloride	85
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	92
Hexane	100
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	103
Tetrahydrofuran	100
Chloroform	87
1,1,1-Trichloroethane	92
Cyclohexane	101
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	99
Benzene	90
1,2-Dichloroethane	89
Heptane	99
Trichloroethene	92
1,2-Dichloropropane	94
1,4-Dioxane	96
Bromodichloromethane	90
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	102
Toluene	89
trans-1,3-Dichloropropene	108

Client Sample ID: LCS

Lab ID#: 0911502A-16B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y120703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/7/09 12:42 PM

Compound	%Recovery
1,1,2-Trichloroethane	100
Tetrachloroethene	100
2-Hexanone	109
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	104
Chlorobenzene	98
Ethyl Benzene	106
m,p-Xylene	105
o-Xylene	105
Styrene	111
Bromoform	106
Cumene	101
1,1,2,2-Tetrachloroethane	100
Propylbenzene	101
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	91
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	116
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	108
Hexachlorobutadiene	118

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	106	70-130



Client Sample ID: LCS

Lab ID#: 0911502A-16C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/8/09 07:14 AM

Compound	%Recovery
Freon 12	81
Freon 114	81
Chloromethane	75
Vinyl Chloride	81
1,3-Butadiene	84
Bromomethane	94
Chloroethane	87
Freon 11	84
Ethanol	150 Q
Freon 113	74
1,1-Dichloroethene	76
Acetone	86
2-Propanol	74
Carbon Disulfide	83
3-Chloropropene	84
Methylene Chloride	74
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	83
Hexane	83
1,1-Dichloroethane	78
2-Butanone (Methyl Ethyl Ketone)	84
cis-1,2-Dichloroethene	87
Tetrahydrofuran	82
Chloroform	79
1,1,1-Trichloroethane	79
Cyclohexane	83
Carbon Tetrachloride	81
2,2,4-Trimethylpentane	84
Benzene	80
1,2-Dichloroethane	81
Heptane	86
Trichloroethene	80
1,2-Dichloropropane	83
1,4-Dioxane	83
Bromodichloromethane	80
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	85
Toluene	75
trans-1,3-Dichloropropene	87



Client Sample ID: LCS

Lab ID#: 0911502A-16C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w120804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/8/09 07:14 AM

Compound	%Recovery
1,1,2-Trichloroethane	84
Tetrachloroethene	82
2-Hexanone	87
Dibromochloromethane	84
1,2-Dibromoethane (EDB)	89
Chlorobenzene	83
Ethyl Benzene	86
m,p-Xylene	86
o-Xylene	86
Styrene	88
Bromoform	82
Cumene	88
1,1,2,2-Tetrachloroethane	86
Propylbenzene	86
4-Ethyltoluene	89
1,3,5-Trimethylbenzene	82
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	84
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	94
1,2-Dichlorobenzene	84
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	90

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
 Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
 FOLSOM, CA 95630-4719
 (916) 985-1000 FAX (916) 985-1020

Page 1 of 3

Project Manager Aushe Sesth (Air Toxics) / Jeff Adams (UPS)
 Collected by: (Print and Sign) Neela Sesth
 Company UPS Corporation Email nsresth@ups.com
 Address 1001 Highlands Plaza Dr. City St. 95630 State MO Zip 63110
 Phone 314-479-0100 Fax 314-479-0462

Project Info:
 P.O. # _____
 Project # 21501175, 00055
 Project Name St. Louis Dissolved Phase _____
 Turn Around Time: Normal Rush _____
 Pressurized by: _____ Date: _____
 Pressurization Gas: N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
01A	VMP-11-29	000005024	11/18/09	0840-0910	Mold, T-0-15, ASTM D-1946 + He	-30	-5
02A	VMP-11-38	000000404	11/18/09	0941-1017		-30	-11
03A	VMP-15-5	0000002169	11/18/09	1305-1335		-30	-7.5
04A	VMP-15-5-D	000002213	11/18/09	1305-1335		-30	-7.0
05A	VMP-15-21.5	000002504	11/18/09	1401-1433		-30	-5.0
06A	VMP-15-25.5	000000570	11/18/09	1505-1535		-30	-6.0

Relinquished by: (signature) [Signature] Date/Time 11/20/09 1500
 Received by: (signature) [Signature] Date/Time 11/20/09 930
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Notes: He-lin used as tracer compound

Shipper Name FedEx Air Bill # _____ Temp (°C) NA Condition Good Custody Seals Intact? Yes No None Work Order # 0911502



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Andrea Scott (Air Toxics) / Jeff Adams (UP2)
 Collected by: (Print and Sign) Neeta Mathern
 Company UP2 Corporation Email gkumar@up2corp.com
 Address 101 Highlands Plaza City San Jose State CA Zip 95110
 Phone 314-429-0102 Fax 314-429-0462

Project Info:
 P.O. # _____
 Project # 2156175.0005
 Project Name Meridian District Phase
 Turn Around Time: Normal Rush
 Pressurized by: _____ Date: _____
 Pressurization Gas: N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
07A	VMP-16-13-5	0000005827	11/19/09	1142-1218	MetLab 50-5, ASTM-D-1446+H2	-30	-5.5
08A	VMP-16-19	0000003280	11/19/09	1253-1323		-30	-7.0
09A	VMP-16-31	0000002133	11/19/09	1347-1422		-30	-5.5
10A	VMP-16-31-D	0000003843	11/19/09	1347-1420		-30	-4
11A	VMP-15-29	0000005805	11/19/09	0819-0839		-30	-6.5

Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) Neeta Mathern Date/Time 11/20/09 1500
 Notes: Helium used as tracer compound
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Shipper Name FedEx Air Bill # _____ Temp (°C) NA Condition good Custody Seals Intact? Yes No None
 Lab Use Only _____ Work Order # 0911502



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Aisha Scott (Air Toxics) / Jeff Adams (URS)
 Collected by: (Print and Sign) Maite Asteasuain
 Company URS Corporation Email maite.asteasuain@urscorp.com
 Address 1001 Highlands Plaza Dr City San Jose State CA Zip 95110
 Phone 314-429-0102 Fax 314-429-0462

Project Info:
 P.O. # (URS)
 Project # 21362175.0005
 Project Name San Jose District Phase

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		Final (psf)
						Initial	Receipt	
12A	VMP-14-5	000001470	11/20/09	1117/1147	Modified TO-15, ASTM D-1946	-30	-8	
13A	VMP-16-5	000002208	11/20/09	0857/0922	L	-30	-8	

Relinquished by: (signature) [Signature] Date/Time 11/20/09 1500 Received by: (signature) [Signature] Date/Time 11/21/09 930
 Relinquished by: (signature) [Signature] Date/Time 11/20/09 Received by: (signature) [Signature] Date/Time 11/21/09
 Relinquished by: (signature) [Signature] Date/Time 11/20/09 Received by: (signature) [Signature] Date/Time 11/21/09

Notes: Station used as tracer compound

Lab Use Only
 Shipper Name Felix Air Bill # NA Temp (°C) NA Condition good Custody Seals Intact? (Yes) No None (Yes) Work Order # 0911502

Roxana Data Review

Laboratory SDG: 0911502B

Reviewer: Tony Sedlacek

Date Reviewed: 1/11/2010

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review (2008)

Applicable Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-11-29	VMP-11-38
VMP-15-5	VMP-15-5-D
VMP-15-21.5	VMP-15-25.5
VMP-16-13.5	VMP-16-19
VMP-16-31	VMP-16-31-D
VMP-15-29	VMP-14-5
VMP-16-5	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

No, the laboratory case narrative and cooler receipt form indicated that no problems or discrepancies were encountered.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Not applicable; samples were analyzed for Methane and fixed gases in air and surrogates are not required.

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

No, MS/MSD samples are not collected for Method ASTM D-1946 since spiking material is unable to be added to the summa canister.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

Yes, samples VMP-16-13.5 and VMP-14-5 were duplicated and analyzed for Methane and fixed gases in air.

Were laboratory duplicate sample RPDs within criteria?

Yes

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-15-5	VMP-15-5-D
VMP-16-31	VMP-16-31-D

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; samples were not analyzed at a dilution.

11.0 Additional Qualifications

Were additional qualifications applied?

No

12/8/2009

Mr. Mike Miller
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562175.00005
Workorder #: 0911502B

Dear Mr. Mike Miller

The following report includes the data for the above referenced project for sample(s) received on 11/21/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 0911502B

Work Order Summary

CLIENT:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-566-3073	P.O. #	
FAX:		PROJECT #	21562175.00005 Roxana Dissolved Phase
DATE RECEIVED:	11/21/2009	CONTACT:	Ausha Scott
DATE COMPLETED:	12/08/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-11-29	Modified ASTM D-1946	4.5 "Hg	15 psi
02A	VMP-11-38	Modified ASTM D-1946	9.5 "Hg	15 psi
03A	VMP-15-5	Modified ASTM D-1946	6.0 "Hg	15 psi
04A	VMP-15-5-D	Modified ASTM D-1946	6.0 "Hg	15 psi
05A	VMP-15-21.5	Modified ASTM D-1946	3.5 "Hg	15 psi
06A	VMP-15-25.5	Modified ASTM D-1946	4.5 "Hg	15 psi
07A	VMP-16-13.5	Modified ASTM D-1946	4.5 "Hg	15 psi
07AA	VMP-16-13.5 Lab Duplicate	Modified ASTM D-1946	4.5 "Hg	15 psi
08A	VMP-16-19	Modified ASTM D-1946	6.5 "Hg	15 psi
09A	VMP-16-31	Modified ASTM D-1946	4.0 "Hg	15 psi
10A	VMP-16-31-D	Modified ASTM D-1946	4.0 "Hg	15 psi
11A	VMP-15-29	Modified ASTM D-1946	4.5 "Hg	15 psi
12A	VMP-14-5	Modified ASTM D-1946	6.5 "Hg	15 psi
12AA	VMP-14-5 Lab Duplicate	Modified ASTM D-1946	6.5 "Hg	15 psi
13A	VMP-16-5	Modified ASTM D-1946	6.0 "Hg	15 psi
14A	Lab Blank	Modified ASTM D-1946	NA	NA
14B	Lab Blank	Modified ASTM D-1946	NA	NA

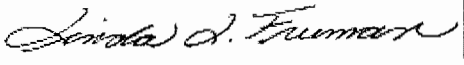
Continued on next page

WORK ORDER #: 0911502B

Work Order Summary

CLIENT:	Mr. Mike Miller URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-566-3073	P.O. #	
FAX:		PROJECT #	21562175.00005 Roxana Dissolved Phase
DATE RECEIVED:	11/21/2009	CONTACT:	Ausha Scott
DATE COMPLETED:	12/08/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
15A	LCS	Modified ASTM D-1946	NA	NA

CERTIFIED BY: 

DATE: 12/08/09

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 0911502B**

Thirteen 1 Liter Summa Canister samples were received on November 21, 2009. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 X$'s the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-11-29

Lab ID#: 0911502B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	2.4
Nitrogen	0.24	80
Methane	0.00024	0.14
Carbon Dioxide	0.024	17

Client Sample ID: VMP-11-38

Lab ID#: 0911502B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.8
Nitrogen	0.30	81
Methane	0.00030	0.35
Carbon Dioxide	0.030	16

Client Sample ID: VMP-15-5

Lab ID#: 0911502B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	4.8
Nitrogen	0.25	82
Carbon Dioxide	0.025	13

Client Sample ID: VMP-15-5-D

Lab ID#: 0911502B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	4.8
Nitrogen	0.25	82
Carbon Dioxide	0.025	13

Client Sample ID: VMP-15-21.5

Lab ID#: 0911502B-05A

Compound	Rpt. Limit (%)	Amount (%)

**Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

Client Sample ID: VMP-15-21.5

Lab ID#: 0911502B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.2
Nitrogen	0.23	60
Methane	0.00023	19
Carbon Dioxide	0.023	18
Ethane	0.0023	0.012

Client Sample ID: VMP-15-25.5

Lab ID#: 0911502B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.1
Nitrogen	0.24	60
Methane	0.00024	20
Carbon Dioxide	0.024	17
Ethane	0.0024	0.014

Client Sample ID: VMP-16-13.5

Lab ID#: 0911502B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	17
Nitrogen	0.24	58
Methane	0.00024	0.10
Carbon Dioxide	0.024	0.79
Helium	0.12	24

Client Sample ID: VMP-16-13.5 Lab Duplicate

Lab ID#: 0911502B-07AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	17
Nitrogen	0.24	58
Methane	0.00024	0.10
Carbon Dioxide	0.024	0.83

**Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

Client Sample ID: VMP-16-13.5 Lab Duplicate

Lab ID#: 0911502B-07AA

Helium	0.12	24
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Client Sample ID: VMP-16-19

Lab ID#: 0911502B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	15
Nitrogen	0.26	65
Methane	0.00026	3.9
Carbon Dioxide	0.026	2.2
Helium	0.13	14

Client Sample ID: VMP-16-31

Lab ID#: 0911502B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	9.2
Nitrogen	0.23	66
Methane	0.00023	12
Carbon Dioxide	0.023	4.0
Helium	0.12	8.7

Client Sample ID: VMP-16-31-D

Lab ID#: 0911502B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	9.4
Nitrogen	0.23	67
Methane	0.00023	11
Carbon Dioxide	0.023	3.7
Helium	0.12	8.4

Client Sample ID: VMP-15-29

Lab ID#: 0911502B-11A

Compound	Rpt. Limit (%)	Amount (%)

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-15-29

Lab ID#: 0911502B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.2
Nitrogen	0.24	60
Methane	0.00024	20
Carbon Dioxide	0.024	17
Ethane	0.0024	0.014

Client Sample ID: VMP-14-5

Lab ID#: 0911502B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	11
Nitrogen	0.26	87
Methane	0.00026	0.0013
Carbon Dioxide	0.026	2.0
Helium	0.13	0.13

Client Sample ID: VMP-14-5 Lab Duplicate

Lab ID#: 0911502B-12AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	11
Nitrogen	0.26	87
Methane	0.00026	0.0013
Carbon Dioxide	0.026	2.0
Helium	0.13	0.13

Client Sample ID: VMP-16-5

Lab ID#: 0911502B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	13
Nitrogen	0.25	49
Carbon Dioxide	0.025	0.12
Helium	0.13	38



Client Sample ID: VMP-11-29

Lab ID#: 0911502B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120205	Date of Collection:	11/18/09 9:10:00 AM
Dil. Factor:	2.38	Date of Analysis:	12/2/09 10:31 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	2.4
Nitrogen	0.24	80
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	0.14
Carbon Dioxide	0.024	17
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-11-38

Lab ID#: 0911502B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120211	Date of Collection: 11/18/09 10:17:00 AM
Dil. Factor:	2.96	Date of Analysis: 12/2/09 01:45 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.8
Nitrogen	0.30	81
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.35
Carbon Dioxide	0.030	16
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-15-5

Lab ID#: 0911502B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120206	Date of Collection: 11/18/09 1:35:00 PM
Dil. Factor:	2.52	Date of Analysis: 12/2/09 10:53 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	4.8
Nitrogen	0.25	82
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	Not Detected
Carbon Dioxide	0.025	13
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-15-5-D

Lab ID#: 0911502B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120207	Date of Collection: 11/18/09 1:35:00 PM
Dil. Factor:	2.52	Date of Analysis: 12/2/09 11:49 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	4.8
Nitrogen	0.25	82
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	Not Detected
Carbon Dioxide	0.025	13
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-15-21.5

Lab ID#: 0911502B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120212	Date of Collection:	11/18/09 2:33:00 PM
Dil. Factor:	2.29	Date of Analysis:	12/2/09 02:25 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.2
Nitrogen	0.23	60
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	19
Carbon Dioxide	0.023	18
Ethane	0.0023	0.012
Ethene	0.0023	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-15-25.5

Lab ID#: 0911502B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120213	Date of Collection: 11/18/09 3:35:00 PM
Dil. Factor:	2.38	Date of Analysis: 12/2/09 03:07 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.1
Nitrogen	0.24	60
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	20
Carbon Dioxide	0.024	17
Ethane	0.0024	0.014
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-16-13.5

Lab ID#: 0911502B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120214	Date of Collection: 11/19/09 12:18:00 PM
Dil. Factor:	2.38	Date of Analysis: 12/2/09 03:30 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	17
Nitrogen	0.24	58
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	0.10
Carbon Dioxide	0.024	0.79
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	24

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-16-13.5 Lab Duplicate

Lab ID#: 0911502B-07AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120215	Date of Collection:	11/19/09 12:18:00 PM
Dil. Factor:	2.38	Date of Analysis:	12/2/09 04:06 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	17
Nitrogen	0.24	58
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	0.10
Carbon Dioxide	0.024	0.83
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	24

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-16-19

Lab ID#: 0911502B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120216	Date of Collection: 11/19/09 1:23:00 PM
Dil. Factor:	2.58	Date of Analysis: 12/2/09 05:11 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	15
Nitrogen	0.26	65
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	3.9
Carbon Dioxide	0.026	2.2
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	14

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-16-31

Lab ID#: 0911502B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120217	Date of Collection: 11/19/09 2:22:00 PM
Dil. Factor:	2.33	Date of Analysis: 12/2/09 05:49 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	9.2
Nitrogen	0.23	66
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	12
Carbon Dioxide	0.023	4.0
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.12	8.7

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-16-31-D

Lab ID#: 0911502B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120218	Date of Collection: 11/19/09 2:20:00 PM
Dil. Factor:	2.33	Date of Analysis: 12/2/09 06:12 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	9.4
Nitrogen	0.23	67
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	11
Carbon Dioxide	0.023	3.7
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.12	8.4

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-15-29

Lab ID#: 0911502B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120219	Date of Collection: 11/19/09 8:39:00 AM
Dil. Factor:	2.38	Date of Analysis: 12/2/09 07:22 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.2
Nitrogen	0.24	60
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	20
Carbon Dioxide	0.024	17
Ethane	0.0024	0.014
Ethene	0.0024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-14-5

Lab ID#: 0911502B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120208	Date of Collection: 11/20/09 11:47:00 AM
Dil. Factor:	2.58	Date of Analysis: 12/2/09 12:16 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	11
Nitrogen	0.26	87
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.0013
Carbon Dioxide	0.026	2.0
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.13

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-14-5 Lab Duplicate

Lab ID#: 0911502B-12AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120209	Date of Collection:	11/20/09 11:47:00 AM
Dil. Factor:	2.58	Date of Analysis:	12/2/09 12:39 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	11
Nitrogen	0.26	87
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.0013
Carbon Dioxide	0.026	2.0
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.13

Container Type: 1 Liter Summa Canister



Client Sample ID: VMP-16-5

Lab ID#: 0911502B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120210	Date of Collection: 11/20/09 9:22:00 AM
Dil. Factor:	2.52	Date of Analysis: 12/2/09 01:22 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	13
Nitrogen	0.25	49
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	Not Detected
Carbon Dioxide	0.025	0.12
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	38

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 0911502B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/2/09 08:47 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

Container Type: NA - Not Applicable



Client Sample ID: Lab Blank

Lab ID#: 0911502B-14B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120203b	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	12/2/09 08:14 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable



Client Sample ID: LCS

Lab ID#: 0911502B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9120223	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/2/09 08:59 PM

Compound	%Recovery
Oxygen	98
Nitrogen	99
Carbon Monoxide	99
Methane	99
Carbon Dioxide	101
Ethane	98
Ethene	98
Helium	105

Container Type: NA - Not Applicable

**Retaining Wall Design
Recommendations Summary
Bridge at Page Avenue
Wall #A7879 (B1-1)**

Project: Page/I-270 VE Design
Project No.: 21562233.30000
Computed By: SAV
Checked By: EJJ

Date	Submittal	Rev.
1/4/2009	30%	1
1/8/2010	100%	2



Wall No.	Wall #A7879 (B1-1)
Top of Wall Elevation, ft	623.10
Proposed Ground at Bottom of Wall	604.00
Bottom of Wall Elevation	602.00
Maximum Exposed Wall Height, ft	19.1
Surcharge, psf	240

SOIL PARAMETERS

Soil Type	Elevation (ft)		Total Unit Weight (pcf)	Undrained Strength		Drained Strength		Sliding Friction Angle (degrees)
	Top	Bottom		Su (psf)	phi (degrees)	c' (psf)	phi' (degrees)	
MSE wall reinforced backfill	0	19	135	0	34	0	34	
Gravel Reinforcement	19	22	135	0	34	0	34	
Stone Trench Stabilized Fill	19	29	135	0	42	100	42	
New Fill	0	19	125	1000	0	100	0	
Existing Fill	29	56	130	1700	0	100	28	
Residual Clay	56	92	120	1500	0	150	25	
Competent Shale	92	114	140	3000	0	400	18	

EXTERNAL STABILITY

	Static		Seismic		Comment
	Calc. FS	Req'd FS	Calc. FS	Req'd FS	
Deep-Seated Failure					
Long term (peak shale strength)	1.9	1.5			Drained strengths
Long term (residual shale strength)	NA	1.2			
Short term (post construction)	3.3	1.3			Undrained strengths
Seismic			1.7	1.1	Horizontal seismic coeff. = 0.05g
Bearing Capacity w/o Overexcav.	2.02	2.5	1.63	1.88	Bearing stratum is soft to stiff lean to fat clay
Bearing Capacity with Overexcav.	5.97	2.5	4.80	1.88	Overexcavation is necessary for undocumented fill.
Overturning (eccentricity, feet)	1.96	<2.5	3.34	<5	Eccentricity units in feet.
Sliding	1.82	1.5	1.25	1.13	Bearing stratum is soft to stiff lean clay

DESIGN CRITERIA

		Recommendations
Reinforced Backfill		
Angle of Internal Friction, degrees	34	
Total Unit Weight, pcf	135	
Retained Backfill		
Angle of Internal Friction, degrees	28	
Total Unit Weight, pcf	125	
Allowable Bearing Pressure, ksf	10.3	
Friction angle of soil below reinforced wall, degrees	34	
Minimum Strap Length, ft	15	Note 1
Estimated Total Settlement, in	3.0	
Seismic		
Seismic Performance Category	B	
Soil Profile Type	I	
Site Coefficient	1.0	
Liquefaction Potential	None	

1. Minimum strap length for entire limits of wall is 15.0 ft.
2. Overexcavation of 3 feet beneath the leveling pad is required for installation of 3 layers of geogrid between the leveling pad and stone trenches. See Figure for details.
3. Stone trenches to be excavated and spaced 10 feet from center apart for the full width of the MSE wall and extend 10 feet below the finished grade. See figure 3 for details of rock trench option.
4. Foundation preparation should be observed by a qualified inspector to confirm adequacy of the bearing surface.
5. Field verify that the wall excavation is to the depth shown in plans. The subgrade below the wall should have a minimum unconfined compressive strength (Qu) of 1.5 tsf.
6. Install wall back drain to maintain positive drainage.
7. The gradation of the backfill for the over-excavation should be the same as the Reinforced Backfill and should be compacted to the same requirements as the Reinforced Backfill. Lime treated clay is also acceptable. Use CL or CH material treated with 5% lime by dry weight of soil (~ 135 lbs lime per CY of soil). Compact to 95% Standard Proctor (T99).
8. Predrill 24" diameter holes for piling to 25 feet below ground surface or below rubble fill layer. Borings indicated rubble fill between El. 580 to El 593. Backfilled holes with sand prior to pile placement and driving.
9. Allow embankment to sit for 3 months to allow for differential settlement before paving



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
 Requiring signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Requiring signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4322

180 BLUE RAVINE ROAD, SUITE R
 FOLSOM, CA 95630-4719
 (916) 985-1000 FAX (916) 985-1020

Page 1 of 3

Project Manager Arusha Smith (Air Toxics) / Jeff Aring (USA)
 Collected by: (Print and Sign) Neeta Satam
 Company USA Surrogate Email Arusha@airtoxics.com
 Address 1001 Northlands Plaza Dr City Stockton State CA Zip 95210
 Phone 314-429-0100 Fax 314-429-0402

Project Info:
 P.O. # (0911)
 Project # 2126417510005
 Project Name Resonance Disposal Phase

Turn Around Time:
 Normal
 Rush
 Expedite
 Lab Use Only
 Presurized by:
 Date:
 Pressurization Code:
 No HC

Lab ID.	Field Sample ID (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
01A	VMP-11-29	00005224	11/18/09	0840-0910	Mobile Tests, ASTM D-1946+H2	-30	-5
02A	VMP-11-38	00000004	11/18/09	0941-1017		-30	-11
03A	VMP-15-5	00000009	11/18/09	1305-1335		-30	-7.5
04A	VMP-15-5-D	00000013	11/18/09	1305-0935		-30	-7.0
05A	VMP-15-2105	00000004	11/18/09	1401-1435		-30	-5.0
06A	VMP-15-2505	00000005	11/18/09	1505-1535		-30	-6.0

Relinquished by: (signature) [Signature] Date/Time 11/20/09 1500
 Received by: (signature) [Signature] Date/Time 01/26/09 930
 Notes: Helium used as tracer compound

Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____
 Shipper Name FELX Air Bill # _____ Temp (°C) NA Condition Good Custody Seals intact? Yes No
 Work Order # 0911502



Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4779
(916) 985-1000 FAX (916) 985-1028

Page 2 of 3

Project Manager: Arvika Such (Air Toxics) / Scott Adams (UPFS)
 Collected by: (Print and Sign) Maria Johnson
 Company: UPFS Corporation Email: maria.johnson@upfs.com
 Address: 1501 Highland Blvd, City State: CA Zip: 93310
 Phone: 314-429-0102 Fax: 314-429-0102

Project Info:
 Turn Around Time: _____
 Normal
 Rush
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 N₂ He
 Project # 2020-115-0005
 Project Name: Medium Pesticidal Plant

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Carrier Pressure/Vacuum	
						Initial	Final
07A	VMP-16-13-5	0000000000	11/19/09	1142-1225	Metals, Pesticides, ATRA-D-methylene	-30	-5.5
08A	VMP-16-19	0000000000	11/19/09	1253-1323		-30	-7.0
09A	VMP-16-31	0000000000	11/19/09	1347-1422		-30	-5.5
10A	VMP-16-31-D	0000000000	11/19/09	1344-1420		-30	-4
11A	VMP-15-29	0000000000	11/19/09	0819-0829		-30	-6.5

Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time 9:30
 Notes: Helium used as carrier compound
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Lab Shipper Name: Felix Air Bill # _____ Condition: good Custody Seals Intact? Yes No
 Lab Use Only: _____ Temp (°C): N/A Work Order #: 0911502

Air TOXICS LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 3 of 3

Project Manager Andrea Smith (Air Toxics) / Safe Address (UPS)
 Collected by: (Print and Sign) Michael Anderson
 Company UPS / Contract Email Anderson.Michael@ups.com
 Address 1001 Washington Plaza City San Francisco State CA Zip 94110
 Phone 415-439-0100 Fax 415-439-0462

Project Info:
 P.C. # _____
 Project # 207201756005
 Project Name Customer Relinquished

Turn Around Time: Normal Rush
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Cylinder Pressure/Vacuum	
						Initial	Final Receipt
12A	VMP-14-5	00001970	11/7/09	1:30 PM	ASPA P-1946	-30	-8
13A	VMP-16-5	00002203	11/20/09	10:51 AM	---	-30	-8

Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time 9:30
 Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time 11/21/09
 Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____

Notes: 4-dim used as tracer compound

Lab Use Only

Shipper Name: FELIX Air Bill #: _____ Temp (°C): NA Condition: Good Custody Seals intact?: Yes No None (Yes) Work Order #: 0911502

**TABLE J-1
GEOTECHNICAL LABORATORY AND FIELD SOIL CLASSIFICATION COMPARISON**

Location	Depth (ft bgs)	Sample ID	Soil Description based on URS Field Observations	URS Field Classification	Geotechnical Laboratory Classification
GP-1	11-21	GP-1-11-21	Medium stiff, moist, gray, medium plastic CLAY (CL)	CL	CL
	27-39	GP-1-27-39	Medium dense, moist, grayish brown to light brown, fine to medium grained SAND (SP), trace clay	SP	SP
GP-2	11-18	GP-2-11-18	Soft, moist, gray, high plastic CLAY (CH)	CL	CL
	19-22	GP-2-19-22	Soft, moist, brownish gray, low plastic, silty CLAY (CL)	CL	CL
	24-32	GP-2-24-32	Medium dense, moist, brownish gray, fine to medium grained SAND (SP), trace silt	SP-SM	SP-SM
GP-7	8-8.5	GP-7-8-8.5	Soft, moist, dark brown to gray, low plastic CLAY (CL), with sand and silt	SC	SC
GP-8	8-8.5	GP-8-8-8.5	Medium dense, moist, brown, fine grained, silty SAND (SM)	SM	SM
GP-10	5-7.5	GP-10-5-7.5	Soft, moist, brown, low plastic, silty CLAY (CL)	CL	CL
	12-18	GP-10-12-18	Loose to medium dense, moist, brown, fine grained SAND (SP)	SP	SM
	36-44	GP-10-36-44	Medium dense, moist, grayish brown, medium to coarse grained SAND (SP)	SP	SP
GP-12	5-8	GP-12-5-8	Soft, moist, brown, low plastic, silty CLAY (CL)	CL	CL
	20-28	GP-12-20-28	Loose to medium dense, moist, grayish brown, medium grained SAND (SP)	SP	SP
GWP-16	4-4.5	GWP-16-4-4.5	Stiff, moist, brown, low plastic CLAY (CL), trace silt	CL	CL
ROST-2	2-2.5	ROST-2-2-2.5	Stiff, moist, brown to dark brown, low plastic CLAY (CL), with silt	CL	CL
	4-4.5	ROST-2-4-4.5	Loose, moist, brown, fine grained SAND (SP), with clay	SM	SM
VMP-3	5-8.5	VMP-3-5-8.5	Medium dense, moist, brown, clayey SAND (SC)	SC	SM
	9-16	VMP-3-9-16	Loose, moist, grayish brown to gray, fine to medium grained SAND (SP)	SP-SM	SP-SM
	35-40	VMP-3-35-40	Medium dense, moist, brownish gray, fine to medium grained SAND (SP), trace silt	SP	SP
VMP-5	13-19	VMP-5-13-19	Loose, moist, grayish brown, fine to medium grained SAND (SP)	SP	SP
	20.5-22	VMP-5-20.5-22	Soft, moist, brown, low plastic CLAY (CL), with silt	CL	CL
	33-45	VMP-5-33-45	Medium dense, moist, grayish brown, medium to coarse grained SAND (SP)	SP	SP
VMP-9	5-11	VMP-9-5-11	Loose, moist, brown, fine to medium grained SAND (SP), with silt	SP	SP
	37-41	VMP-9-37-41	Medium dense, moist, light grayish brown, fine to medium grained SAND (SP), trace silt	SP	SP
VMP-16	12-13	VMP-16-12-13	Medium stiff, moist, gray, low plastic, silty CLAY (CL)	CL	ML
	14-30	VMP-16-14-30	Medium dense, moist, grayish brown, fine to medium grained SAND (SP)	SP	SP

NOTES:

1) Gray highlights indicate variation between URS Field classification and Geotechnical Laboratory classification for the same sam

Geotechnical Testing
Data Summary

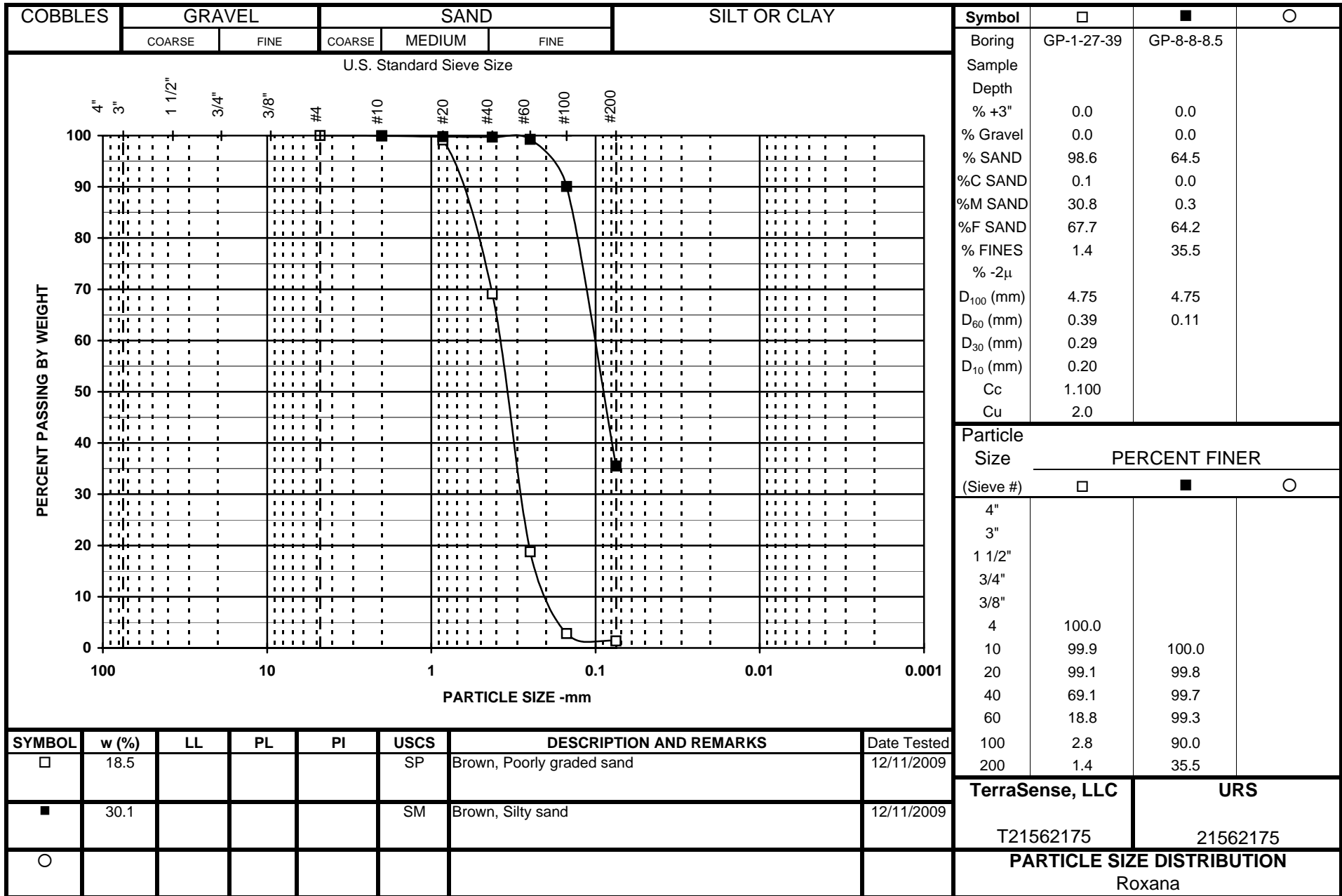
URS #21562175.00003
Roxana
LABORATORY TESTING DATA SUMMARY

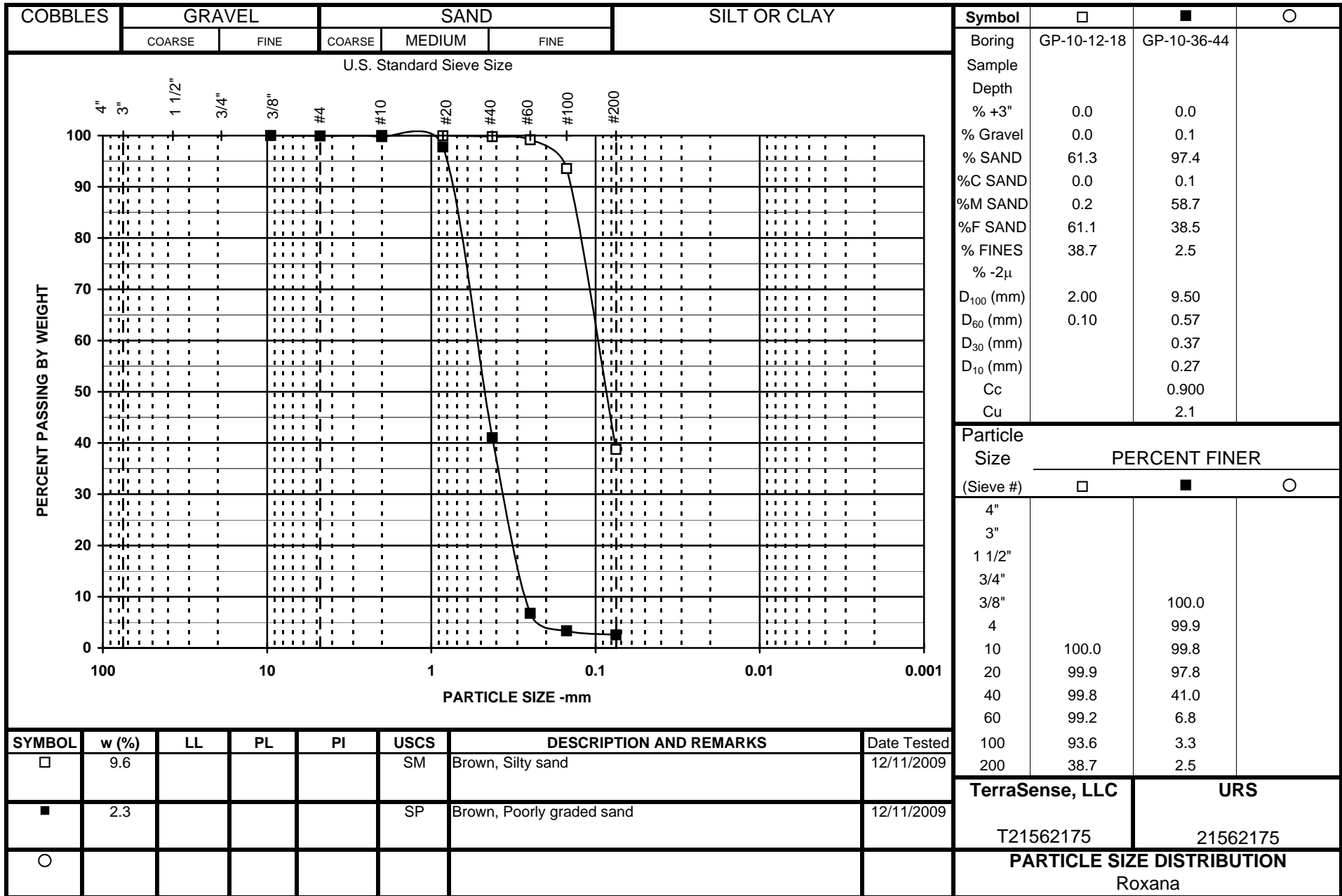
SAMPLE ID	IDENTIFICATION TESTS			REMARKS
	WATER CONTENT (%)	USCS SYMB. (1)	SIEVE MINUS NO. 200 (%)	
GP-1-11-21		CL		Visual Classification
GP-1-27-39	18.5	SP	1.4	
GP-2-11-18		CL		Visual Classification
GP-2-19-22		CL		Visual Classification
GP-2-24-32		SP-SM		Visual Classification
GP-7-8-8.5		SC		Visual Classification
GP-8-8-8.5	30.1	SM	35.5	
GP-10-5-7.5		CL		Visual Classification
GP-10-12-18	9.6	SM	38.7	
GP-10-36-44	2.3	SP	2.5	
GP-12-5-8		CL		Visual Classification
GP-12-20-28		SP		Visual Classification
GWP-16-4-4.5		CL		Visual Classification
ROST-2-2-2.5		CL		Visual Classification
ROST-2-4-4.5	19.8	SM	42.7	
VMP-3-5-8.5	26.7	SM	29.3	
VMP-3-9-16	9.9	SP-SM	8.3	
VMP-3-35-40		SP		Visual Classification
VMP-5-13-19	4.8	SP	2.0	
VMP-5-20.5-22		CL		Visual Classification
VMP-5-33-45	4.1	SP	1.7	
VMP-9-5-11		SP		Visual Classification
VMP-9-37-41		SP		Visual Classification
VMP-16-12-13		ML		Visual Classification
VMP-16-14-30	3.2	SP	2.0	

Note: (1) USCS symbol based on visual observation and Sieve reported.

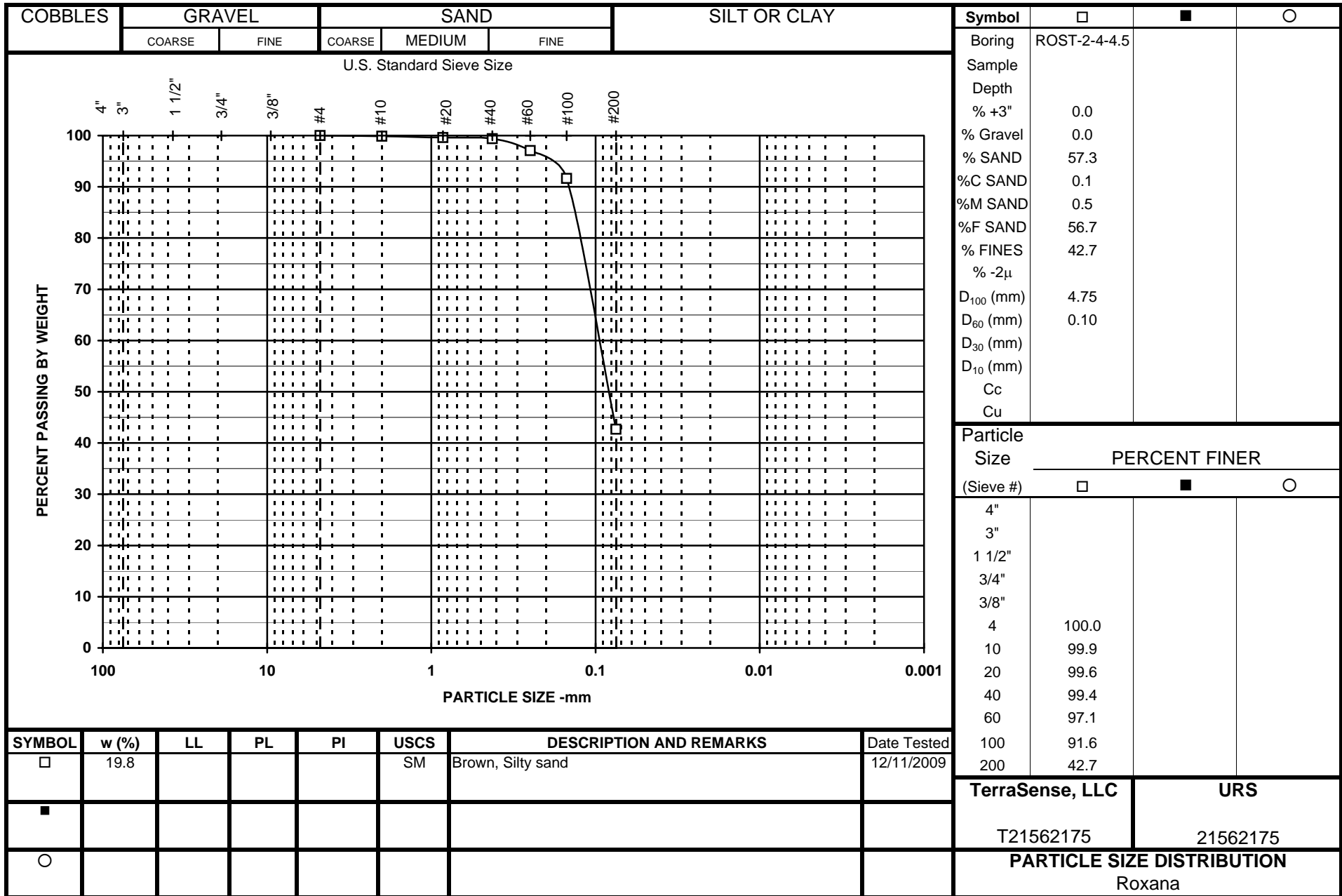
URS #21562175.00003
Roxana
LABORATORY TESTING DATA SUMMARY

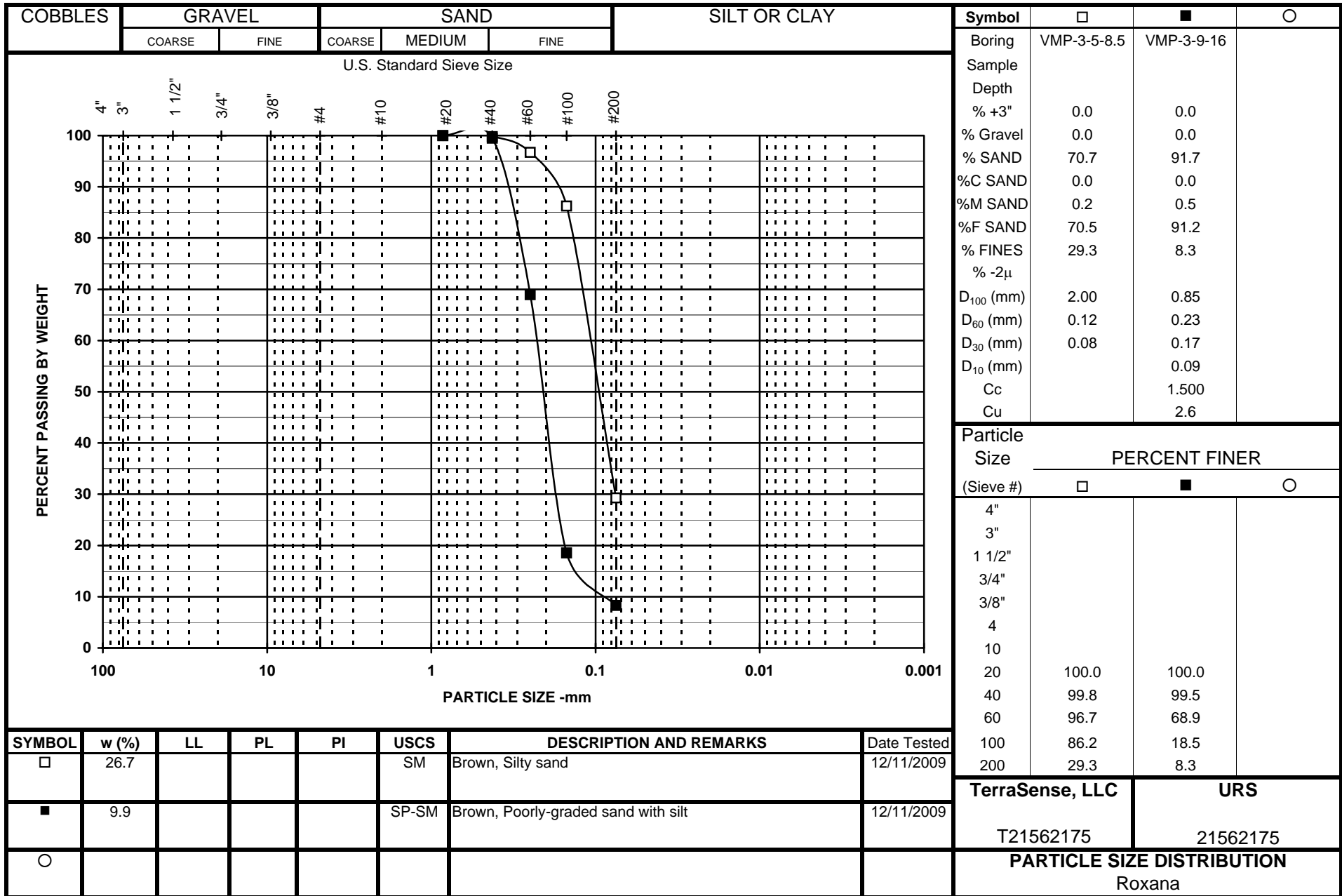
ID NO.	VISUAL DESCRIPTION
GP-1-11-21	CL, brown plastic CLAY, trace fine sand
GP-2-11-18	CL, gray plastic CLAY
GP-2-19-22	CL, gray plastic CLAY
GP-2-24-32	SP-SM, brown c-f SAND
GP-7-8-8.5	SC, brown c-f SAND, some clay
GP-10-5-7.5	CL, brown m-plastic silty CLAY, trace f. sand
GP-12-5-8	CL, brown plastic CLAY, trace f. sand
GP-12-20-28	SP, brown c-f SAND
GWP-16-4-4.5	CL, brown plastic CLAY, trace f. sand
ROST-2-2-2.5	CL, brown medium plastic CLAY, trace f. sand
VMP-3-35-40	SP, brown fine SAND, trace silt
VMP-5-20.5-22	CL, brown plastic CLAY, some f. sand
VMP-9-5-11	SP, brown fine SAND, trace silt
VMP-9-37-41	SP, gray fine SAND, trace silt
VMP-16-12-13	ML, brown SILT, trace f. sand





TerraSense, LLC **URS**
T21562175 21562175
PARTICLE SIZE DISTRIBUTION
Roxana

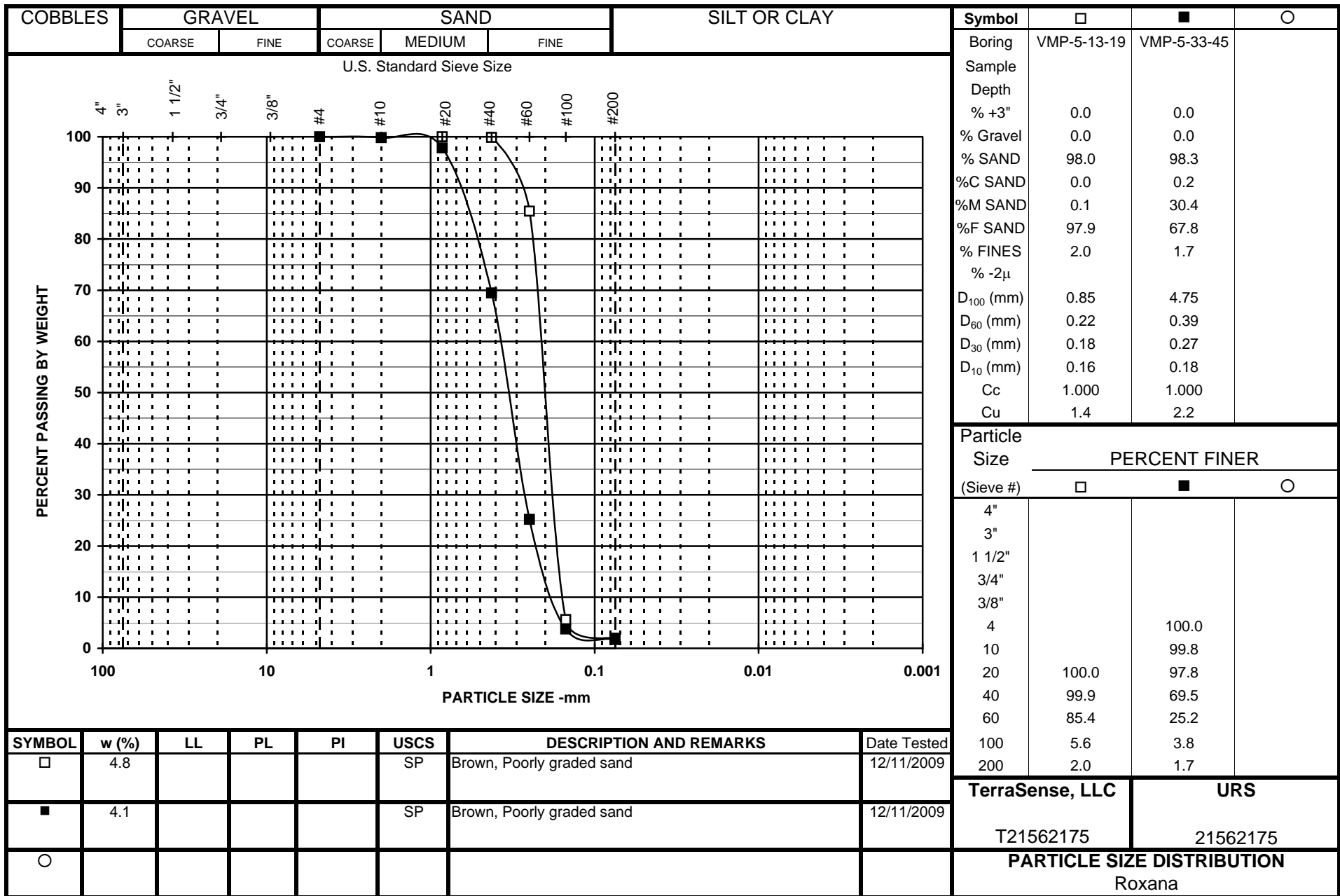


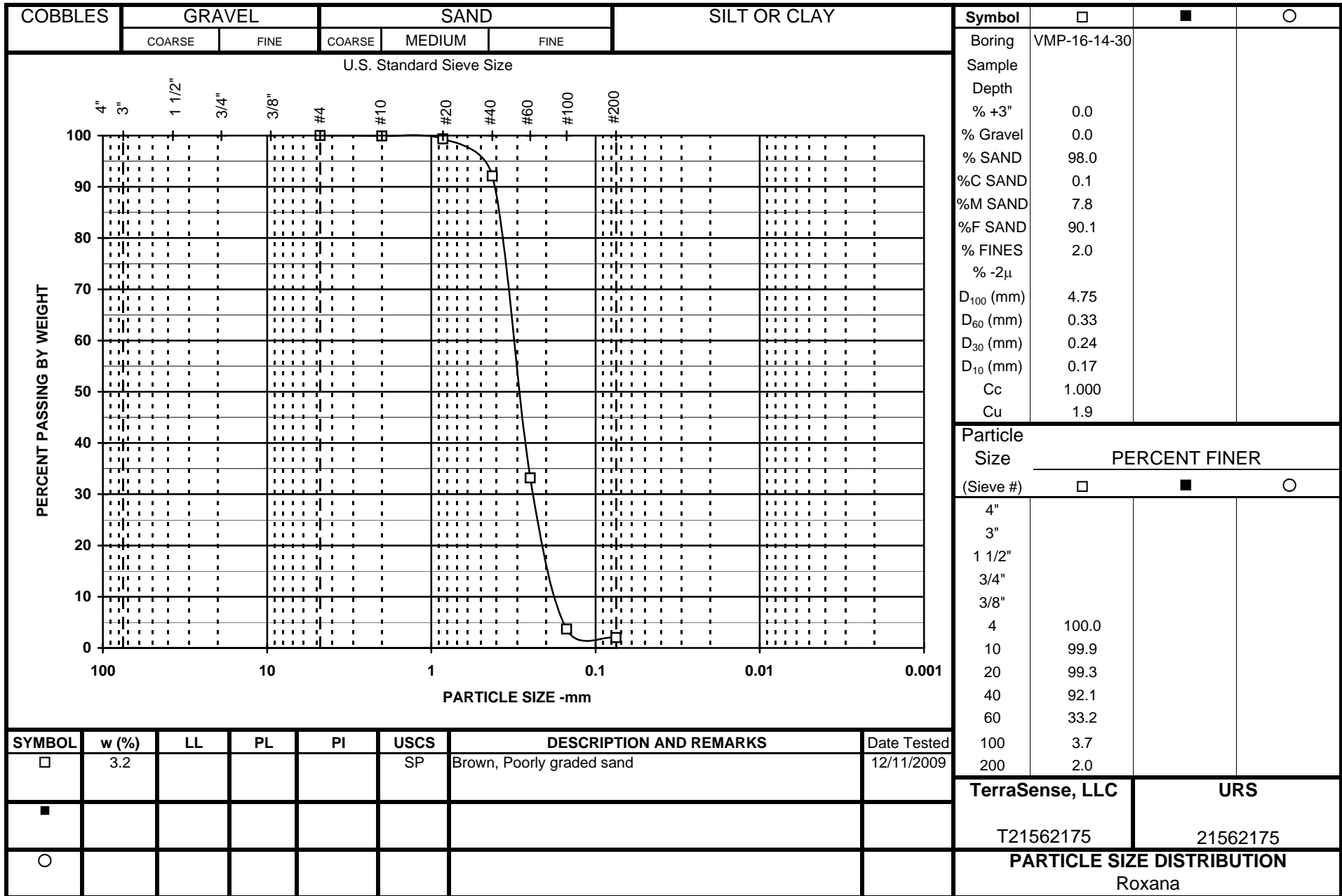


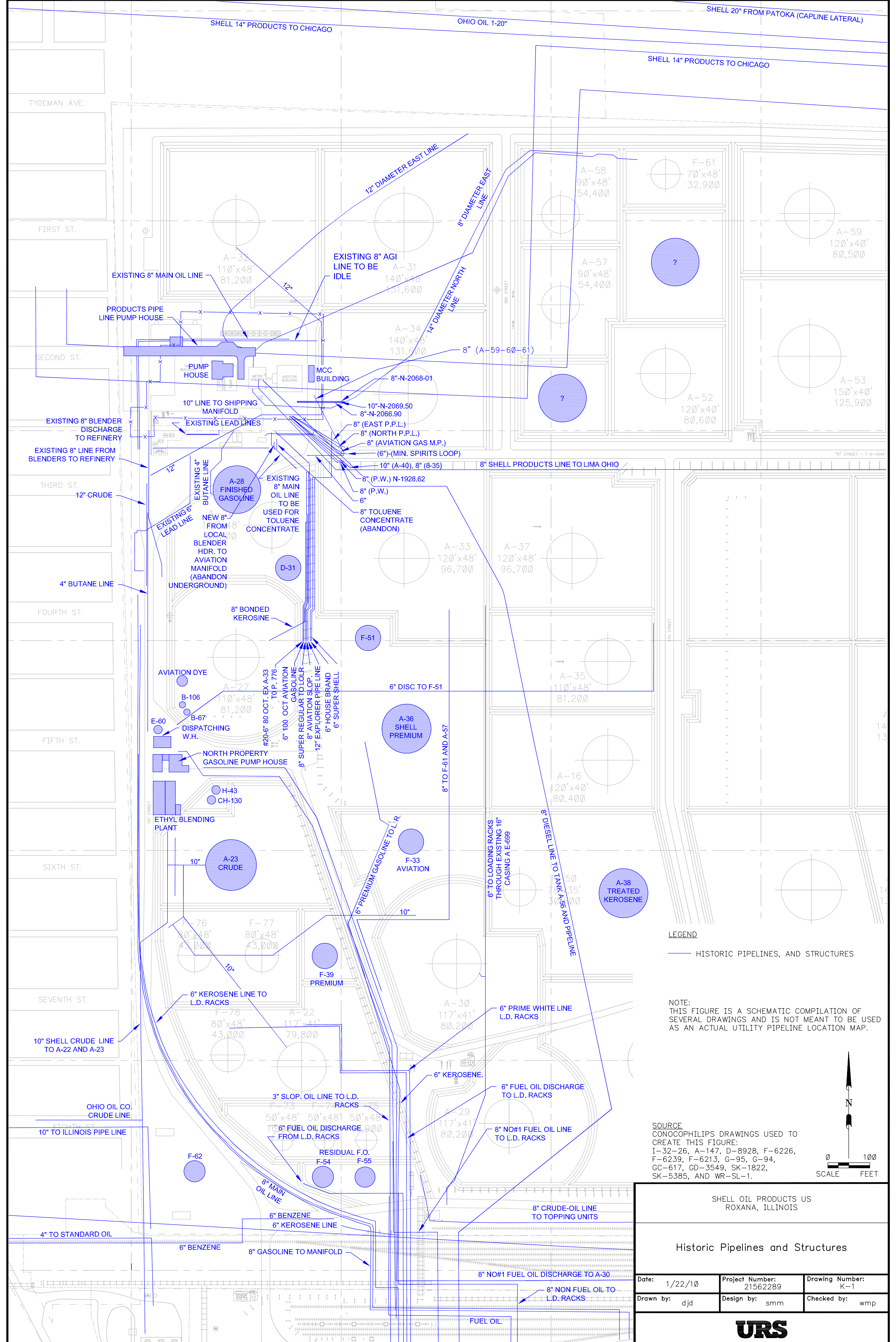
TerraSense, LLC **URS**

T21562175 21562175

PARTICLE SIZE DISTRIBUTION
Roxana



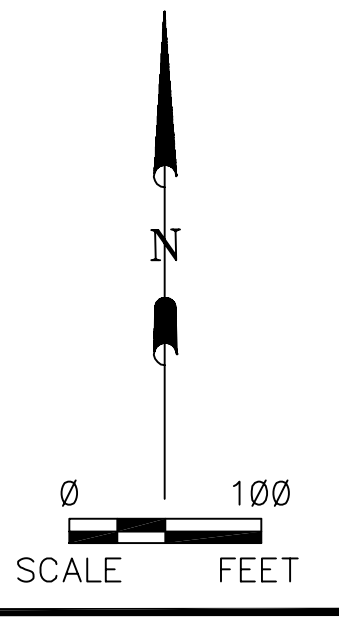




LEGEND
 — HISTORIC PIPELINES, AND STRUCTURES

NOTE:
 THIS FIGURE IS A SCHEMATIC COMPILATION OF SEVERAL DRAWINGS AND IS NOT MEANT TO BE USED AS AN ACTUAL UTILITY PIPELINE LOCATION MAP.

SOURCE:
 CONOCOPHILIPS DRAWINGS USED TO CREATE THIS FIGURE:
 I-32-26, A-147, D-8928, F-6226, F-6239, F-6213, G-95, G-94, GC-617, GD-3549, SK-1822, SK-5385, AND WR-SL-1.



SHELL OIL PRODUCTS US ROXANA, ILLINOIS		
Historic Pipelines and Structures		
Date: 1/22/10	Project Number: 21562289	Drawing Number: K-1
Drawn by: djd	Design by: smm	Checked by: wmp
URS		

- REFERENCES:** Shell Oil Products US, 2009; *Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Work Plan for Roxana, Illinois*; Prepared by URS Corporation; dated January 21, 2009
- Shell Oil Products US, 2009; *Route 111/Rand Ave Vicinity Subsurface Investigation Report*; Prepared by URS Corporation; dated January 21, 2009
- ConocoPhillips Company, 2007; *Subsurface Investigation on #1 and #4 Dock Lines Report*; Prepared by ATC Associates, Inc.; dated April 24, 2007

W O R K P L A N

DISSOLVED PHASE
GROUNDWATER
INVESTIGATION

AND

*P-60 FREE PHASE PRODUCT
DELINEATION*

ROXANA, ILLINOIS

Prepared for

Shell Oil Products US
Environmental Services
17 Junction Drive; PMB #399
Glen Carbon, Illinois 62034

September 5, 2008

Revised January 21, 2009



URS Corporation
1001 Highland Plaza Drive West, Suite 300
St. Louis, MO 63110
(314) 429-0100
Project No. 21561979

**TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DETECTIONS AND SCREENING**

SCREENING VALUE EXCEEDANCES ARE HIGHLIGHTED YELLOW

Analyte			Benzene	Ethylbenzene	Toluene	o-Xylene	m,p-Xylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Isopropylbenzene
Ingestion Screening Values (mg/L)			0.005	0.7	1.0	10		0.35*	0.35*	0.66**
Location	Sample ID	Date	ANALYTICAL RESULTS (mg/L)							
P-55	P-55080808	8/8/2008	0.686 D	0.921 D	0.350 D	0.118	1.78 D	0.403 D	0.0936	0.0537
T-1	T-1080808	8/8/2008	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005
T-13	T-13080808	8/8/2008	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005

Analyte			Methyl tert-Butyl Ether	Methylene Chloride	Naphthalene	n-Propylbenzene	n-Butylbenzene	p-Isopropyltoluene	sec-Butylbenzene
Ingestion Screening Values (mg/L)			0.07	0.005	0.14	0.24***	0.24***		0.24***
Location	Sample ID	Date	ANALYTICAL RESULTS (mg/L)						
P-55	P-55080808	8/8/2008	<0.005	0.00218 J	0.149 D	0.0873	0.0111	0.0043 J	0.00738
T-1	T-1080808	8/8/2008	<0.005	0.00314 J	<0.010	<0.005	<0.005	<0.005	<0.005
T-13	T-13080808	8/8/2008	<0.005	0.00283 J	<0.005	<0.005	<0.005	<0.005	<0.005

NOTES:

- 1) Sample ID explanation --> X-XXDDDDDD --> X-XX is the well location at which the sample was collected; DDDDDD is the date on which the sample was collected.
- 2) <#.## Denotes the analyte was not detected below the indicated reporting limit.
- 3) The screening value provided is for Xylenes (total), which is the summation of o-Xylenes and m,p-Xylenes.

LAB QUALIFIERS:

D = The samples were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 J = The target analyte was positively identified below the reporting limit (RL) and above the method detection limit (MDL).

REFERENCES:

- Illinois Environmental Protection Agency (IEPA); Tiered Approach to Corrective Action Objectives (TACO); Title 35 of the Illinois Administrative Code, Part 742, Appendix B, Table E.
 * IEPA; TACO; Groundwater Remediation Objectives for Chemicals not listed in TACO; dated May 1, 2007.
 ** U.S. Environmental Protection Agency (USEPA); Region 6 Human Health Medium-Specific Screening Levels; dated December 2007.
 *** USEPA; Region 9 Preliminary Remediation Goals (PRGs) Table; dated October 2004.

R E P O R T

SUBSURFACE INVESTIGATION

Route 111/Rand Avenue Vicinity Investigation Roxana, Illinois

Prepared for:

Shell Oil Products US
17 Junction Drive
PMB#399
Glen Carbon, Illinois 62034

August 2008
Revised January 21, 2009



URS Corporation
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110
(314) 429-0100
Project 21561979.00006

**TABLE 7
SUMMARY OF GROUNDWATER ANALYTICAL DETECTIONS AND SCREENING**

EXCEEDANCES HIGHLIGHTED IN YELLOW

Analyte (Results in mg/L)			Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Chlorobenzene	Dichlorodifluoro methane
Ingestion Screening Values (mg/L)			0.005	0.7	1.0	10		0.35*	0.35*	0.1	1.4*
Location	Sample ID	Date									
SOPUS WELLS											
B-1	B1-061208	6/12/2008	0.00101 J	<0.005	<0.005	< 0.010	<0.005	<0.005	<0.005	<0.005	<0.005
B-2	B2-061208	6/12/2008	1.1 D	1.62 D	3 D	3.13 D	0.933 D	0.718	0.188	< 0.025	< 0.025
	B2-061208D	6/12/2008	1.12 D	1.53 D	3.03 D	3 D	0.867 D	0.689 D	0.202	< 0.025	< 0.025
B-3	B3-061208	6/12/2008	0.00159 J	0.00797	0.0501	0.0894	0.007	<0.005	<0.005	<0.005	<0.005
B-4	B4-061208	6/12/2008	<0.005	<0.005	<0.005	< 0.010	<0.005	<0.005	<0.005	<0.005	<0.005
B-5	B5-061308	6/13/2008	0.0338	0.003 J	0.00617	< 0.010	<0.005	<0.005	<0.005	<0.005	<0.005
B-6	B6-061308	6/13/2008	<0.005	<0.005	<0.005	< 0.010	<0.005	<0.005	<0.005	<0.005	<0.005
COP WELLS											
P-54	P54-061008	6/10/2008	0.00629	0.00101 J	<0.005	<0.010	<0.005	0.00294 J	<0.005	<0.005	<0.005
	P54072508	7/25/2008	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005
P-56	P56-060908	6/9/2008	0.383 D	1.67 D	0.46 D	2.22 D	0.233 D	0.388 D	0.0937	<0.005	<0.005
P-57	P57-061108	6/11/2008	257 D	0.624	0.133	0.76	0.117	0.106	0.0285 J	<0.050	0.127 J
P-58	P58-060908	6/9/2008	349 D J	0.87 J	0.148 J	0.769 J	0.157 J	0.734 J	0.116 J	<0.050	0.115 J
	P58-060908D	6/9/2008	348 D J	0.914 J	0.155 J	0.805 J	0.168 J	0.82 J	0.129 J	<0.050	0.122 J
P-66	P66-061008	6/10/2008	0.659 D	0.288 D	0.00167 J	0.00387 J	<0.005	0.0903	0.00569	<0.005	<0.005
P-73	P73-061008	6/10/2008	4 D	0.89 D	1.37 D	1.76 D	0.52 D	0.596 D	0.137	0.00312 J	<0.005
P-75	P75-061008	6/10/2008	3.62 D	0.0836	0.0464	0.0345	0.00674 J	0.0382	0.0108	<0.010	<0.010
P-93A	P-93A	4/30/2008	366 D	0.238	0.0187	0.347	0.0255	0.105	0.0145	<0.010	<0.010
P-93B	P-93B	4/30/2008	232 D	0.0907	0.11	0.174	0.0394	0.0118	<0.010	<0.010	<0.010

Analyte (Results in mg/L)			Isopropyl benzene	Methyl tert-Butyl Ether	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene
Ingestion Screening Values (mg/L)			0.66**	0.07	0.005	0.14	0.24***	0.24***		0.24***	0.24***
Location	Sample ID	Date									
SOPUS WELLS											
B-1	B1-061208	6/12/2008	<0.005	0.00438 J	0.00321 J	< 0.010	<0.005	<0.005	<0.005	<0.005	<0.005
B-2	B2-061208	6/12/2008	0.0539	< 0.025	0.0422 B	0.129	< 0.025	0.117	< 0.025	< 0.025	< 0.025
	B2-061208D	6/12/2008	0.0546	< 0.025	0.0472 B	0.145	< 0.025	0.124	< 0.025	< 0.025	< 0.025
B-3	B3-061208	6/12/2008	0.0295	<0.005	< 0.010	<0.005	0.00269 J	0.0549	0.00229 J	0.00216 J	
B-4	B4-061208	6/12/2008	<0.005	<0.005	0.00482 J	< 0.010	<0.005	<0.005	<0.005	<0.005	
B-5	B5-061308	6/13/2008	0.00193 J	<0.005	0.00518	< 0.010	<0.005	0.00257 J	<0.005	<0.005	
B-6	B6-061308	6/13/2008	<0.005	0.00104 J	0.00157 J	< 0.010	<0.005	<0.005	<0.005	<0.005	
COP WELLS											
P-54	P54-061008	6/10/2008	<0.005	<0.005	0.00207 JB	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005
	P54072508	7/25/2008	<0.005	<0.005	0.00384 J	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005
P-56	P56-060908	6/9/2008	0.0611	<0.005	<0.005	0.18 D	0.0094	0.0869	0.00415 J	<0.005	<0.005
P-57	P57-061108	6/11/2008	0.0183 J	<0.050	<0.050	0.065 J	<0.050	0.0171 J	<0.050	<0.050	<0.050
P-58	P58-060908	6/9/2008	0.0766 J	<0.050	<0.050	0.179 J	0.0189 J J	0.109 J	<0.050	<0.050	0.0371 J J
	P58-060908D	6/9/2008	0.0868 J	<0.050	<0.050	0.202 J	0.0212 J J	0.124 J	0.0118 J J	<0.050	0.0425 J J
P-66	P66-061008	6/10/2008	0.0915	<0.005	<0.005	0.0755	0.0175	0.114	0.00445 J	0.0196	0.00596
P-73	P73-061008	6/10/2008	0.0497	<0.005	<0.005	0.145	0.0255	0.0809	0.0124	0.0199	0.0478
P-75	P75-061008	6/10/2008	0.126	0.125	<0.010	0.162	0.0268	0.0607	0.00398 J	0.0241	0.00496 J
P-93A	P-93A	4/30/2008	<0.010	6.26 D	<0.050	<0.050	<0.010	0.0117	<0.010	<0.010	<0.010

NOTES:

- Screening values shown above are the Tier 1 Groundwater Remediation Objectives for the Ingestion Route.
- BOLD** indicates the analytical detection of the analyte.
- Sample ID explanation -> XX-DDDDDD -> XX is the well location at which the sample was collected; DDDDDD is the date on which the sample was collected.
- The screening values provided are for Xylenes (total), which is the summation of m,p-Xylenes and o-Xylenes.
- Analytical results for P-93A are from the 2Q08 monitoring event for the Wood River Refinery and were provided by COP.
- The 6/10/2008 data for well P-54 are considered suspect.

REFERENCES

Illinois Environmental Protection Agency (IEPA); Tiered Approach to Corrective Action Objectives (TACO); Title 35 of the Illinois Administrative Code, Part 742, Appendix B, Table E.
 * IEPA; TACO; Groundwater Remediation Objectives for Chemicals not listed in TACO; May 1, 2007.
 ** U.S. Environmental Protection Agency (USEPA); Region 6 Human Health Medium Specific Screening Levels; December 2007.
 *** U.S. Environmental Protection Agency (USEPA), Region 9; Preliminary Remediation Goals (PRGs) Table; October 2004.

LAB QUALIFIERS

B = A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 D = The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 J = The target analyte was positively identified below the RL and above the MDL.

URS QUALIFIERS

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

APPENDIX H-1
SUMMARY OF 2006 GROUNDWATER ANALYTICAL DETECTIONS AND SCREENING

EXCEEDANCES HIGHLIGHTED IN YELLOW

Analyte (Results in mg/L)			Benzene	Ethylbenzene	Toluene	Xylenes (total)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Acetone	Bromomethane	Carbon disulfide
Ingestion Screening Values (mg/L)			0.005	0.7	1.0	10	0.35*	0.35*	0.7	130**	0.7
Location	Sample ID	Date									
COP WELLS											
P-57	P5703030601	3/3/2006	177	1.12	<1.0	<3.0	<1.0	<1.0	<50.0	<1.0	<1.0
P-58	P5803020601	3/2/2006	409 RL5	<5.0	<5.0	<15.0	<5.0	<5.0	<250	<5.0	<5.0
	P5803020602	3/2/2006	464 RL5	<5.0	<5.0	<15.0	<5.0	<5.0	<250	<5.0	<5.0
P-66	P6603020601	3/2/2006	0.0116 U	<0.001	0.00199	<0.003	0.00125	<0.001	<0.050	<0.001	<0.001
P-73	P7303020601	3/2/2006	22.4	1.74	8.5	4.53	0.928	0.155	<0.050	<0.001	<0.001
P-75	P7503030601	3/3/2006	2.78	0.0296	0.0169	0.0393	0.0664	0.0146	<0.050	<0.001	<0.001
P-93A	P93A03030601	3/3/2006	506	<5.0	<5.0	<15.0	<5.0	<5.0	<250	<5.0	<5.0
P-93B	P93B03030601	3/3/2006	370	<5.0	<5.0	<15.0	<5.0	<5.0	<250	<5.0	<5.0
GROUNDWATER PROFILE SAMPLING											
P-93-02	P9302GWP43	4/5/2006	1,310 RL1	6.2 RL1,J	29.5 RL1	26.4 RL1,J	9.8 RL1,J	<10.0	<500	<10.0	<10.0
	P9302GWP59	4/5/2006	264 RL1	10.9 RL1	56.5 RL1	48.9 RL1	16.6 RL1	4.6 RL1,J	<500	<10.0	<10.0
P-93-03	P9303GWP40	4/6/2006	348	0.534	0.123 J	1.61	0.129 J	<0.001	<0.050	<0.001	<0.001
	P9303GWP59	4/7/2006	3.65	0.153	0.00463	0.262	0.167	0.0482	<0.050	<0.001	0.00108
P-93-05	P9305GWP45	4/7/2006	1,460	0.0058 J	0.0147 J	0.0147 J	0.00537 J	0.00352 J	<0.050	<0.001	<0.001
	P9305GWP58	4/7/2006	52.2	0.203	0.233	0.488 J	0.103 J	0.0408 J	<0.050	<0.001	<0.001
P-93-06	P9306GWP50	4/7/2006	1,310	<1.0	<1.0	<3.0	0.00431 J	0.00305 J	<0.050	<0.001	<0.001
	P9306GWP62.5	4/10/2006	827	0.401 E J	491 E	0.791 E J	0.164 J	0.0563 J	0.325 J	0.00432 J	<0.001
P-93-09	P9309GWP52	4/11/2006	250	1.26	0.0685	2.34	1.77	0.485	<0.50	<0.010	<0.010
	P9309GWP66	4/11/2006	629 E1	0.74	0.156 J	0.502 J	0.137 J	0.035 J	<0.050	<0.001	<0.001
	P9309GWP66D	4/11/2006	569	0.698	0.13	0.548	0.131	0.0342	<0.50	<0.010	<0.010
P-93-11	P9311GWP41	4/5/2006	1,060 RL1	<10.0	17.5 RL1	16.5 RL1,J	6.4 RL1,J	<10.0	<500	<10.0	<10.0
	P9311GWP59	4/6/2006	11.8	0.0926	0.182	0.295	0.0526	0.0172	<0.050	<0.001	<0.001
	P9311GWP59D	4/6/2006	13.1	0.0876	0.183	0.278	0.0507	0.0169	<0.050	<0.001	<0.001

Analyte (Results in mg/L)			Dibromomethane	Isopropyl benzene	Methyl tert-Butyl Ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene
Ingestion Screening Values (mg/L)			0.07*	5,200**	0.07	0.14	0.24***	0.24***		0.24***	0.24***
Location	Sample ID	Date									
COP WELLS											
P-57	P5703030601	3/3/2006	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
P-58	P5803020601	3/2/2006	<5.0	<5.0	<5.0	<25.0	<5.0	<5.0	<5.0	<5.0	<5.0
	P5803020602	3/2/2006	<5.0	<5.0	<5.0	<25.0	<5.0	<5.0	<5.0	<5.0	<5.0
P-66	P6603020601	3/2/2006	<0.001	0.125	0.107	<0.005	0.0131	0.142	<0.001	0.0181	<0.001
P-73	P7303020601	3/2/2006	<0.001	0.088	0.04	0.25	<0.001	0.149	0.0131	0.0237	0.056
P-75	P7503030601	3/3/2006	<0.001	0.103	0.191	0.0286	0.03	0.156	<0.001	<0.020	<0.020
P-93A	P93A03030601	3/3/2006	<5.0	<5.0	<5.0	<25.0	<5.0	<5.0	<5.0	<5.0	<5.0
P-93B	P93B03030601	3/3/2006	<5.0	<5.0	<5.0	<25.0	<5.0	<5.0	<5.0	<5.0	<5.0
GROUNDWATER PROFILE SAMPLING											
P-93-02	P9302GWP43	4/5/2006	<10.0	<10.0	<10.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
	P9302GWP59	4/5/2006	<10.0	<10.0	<10.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
P-93-03	P9303GWP40	4/6/2006	<0.001	0.0154 J	0.036 J	0.0702 J	<0.001	0.0261 J	<0.001	<0.001	<0.001
	P9303GWP59	4/7/2006	<0.001	0.016	<0.001	0.0214	<0.001	0.0406	<0.001	<0.001	0.00621
P-93-05	P9305GWP45	4/7/2006	<0.001	0.00376 J	R	0.00489 J	<0.001	0.00271 J	<0.001	<0.001	<0.001
	P9305GWP58	4/7/2006	<0.001	0.026 J	<0.001	0.0242 J	<0.001	0.0596 J	<0.001	0.00587 J	0.00632 J
P-93-06	P9306GWP50	4/7/2006	0.00143 J	<0.001	R	0.00343 J	<0.001	<0.001	<0.001	<0.001	<0.001
	P9306GWP62.5	4/10/2006	<0.001	0.0454 J	18.6	0.104 J	0.00405 J	0.118 J	<0.001	<0.001	<0.001
P-93-09	P9309GWP52	4/11/2006	<0.010	0.123	10.1	0.215	<0.010	0.31	0.0696	0.117	0.0328
	P9309GWP66	4/11/2006	<0.001	0.0154 J	8.57	0.0531 J	<0.001	0.0262 J	0.00439 J	0.00454 J	0.00059 J
	P9309GWP66D	4/11/2006	<0.010	<0.010	8.73	0.0362	<0.010	0.0213	<0.010	0.0052	<0.010
P-93-11	P9311GWP41	4/5/2006	<10.0	<10.0	<10.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0
	P9311GWP59	4/6/2006	<0.001	0.00618	0.00449	0.0208	<0.001	0.0116	<0.001	<0.001	0.00418
P9311GWP59D	4/6/2006	<0.001	0.00608	0.00464	0.0214	<0.001	0.0112	<0.001	<0.001	0.0042	

NOTES:

- 1) Screening values shown above are the Tier 1 Groundwater Remediation Objectives for the Groundwater Component of the Ingestion Route.
- 2) <#.# Denotes the result was not detected below the indicated reporting limit.
- 3) **BOLD** indicates the analytical detection of the analyte.
- 4) Well sample ID explanation --> PXXDDDDDD --> PXX is the well location at which the sample was collected; DDDDD is the sample date.
- 5) Profile sample ID explanation --> P93XXGWPZZZ --> P93XX is the profile location at which the sample was collected; GWP stands for groundwater profiling; ZZZ is the depth at which the sample was collected.

REFERENCES

Illinois Environmental Protection Agency (IEPA); Tiered Approach to Corrective Action Objectives (TACO); Title 35 of the Illinois Administrative Code, Part 742, Appendix B, Table E.

* IEPA; Tiered Approach to Corrective Action Objectives (TACO); Groundwater Remediation Objectives for Chemicals not listed in TACO; May 1, 2007.

** U.S. Environmental Protection Agency (USEPA); Region 6 Human Health Medium-Specific Screening Levels; December 2007.

*** U.S. Environmental Protection Agency (USEPA); Region 9: Preliminary Remediation Goals (PRGs) Table; October 2004.

LAB QUALIFIERS

- B = A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D = The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E = Concentration exceeds the calibration range and therefore result is semi-quantitative.
- E1 = Concentration estimated. Analyte exceeded calibration range. Reanalysis not possible due to insufficient sample.
- J = The target analyte was positively identified below the RL and above the MDL.
- RL1 = Reporting limit raised due to sample matrix effects.
- RL5 = Reporting limit raised due to high single peak analyte.

URS QUALIFIERS

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R = Data rejected during validation efforts.



ConocoPhillips – Wood River Refinery
Subsurface Investigation Report
On #1 and #4 Dock Lines
Illinois Route 111 and Rand Avenue
Roxana, Illinois
ATC Project Number 30.75233.0710 T-1

Prepared for:

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April 24, 2007

TABLE 1
SOIL ANALYTICAL RESULTS (ug/Kg)
CONOCOPHILLIPS
WOOD RIVER REFINERY
ILLINOIS ROUTE 111 AND RAND AVENUE
ROXANA, ILLINOIS

Sample Name	Date Sampled	Depth Interval (ft)	EPA Method 8260B (ug/Kg)					EPA Method 8270 (ug/Kg)																
			Benzene	Ethylbenzene	MTBE	Toluene	Total Xylene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	
B-1	03/07/07	12'-14'	1.7	<6.3	<2.5	<6.3	<6.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
		22'-24'	<1.1	<5.4	<2.1	<5.4	<5.4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
B-3	03/01/07	14'-16'	287	548	<56.4	<141	<141	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	9	<4	<4	
		22'-24'	21,900	8,220	<389	<972	7,890	87	19	21	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
B-5	02/28/07	34'-36'	<3.7	<138	<55.2	<138	420	7	<3	7	8	<3	4	<3	<3	11	<3	4	74	173	166	12		
		14'-16'	1.0	<5.0	<2.0	<5.0	<5.0	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	28	40	19	
B-6	03/01/07	38'-40'	206,000	1,500	<64.7	1,260	4,170	735	10	44	31	13	20	4	8	27	<4	202	317	5	11,000	400	122	
		12'-14'	16.8	<4.9	<2.0	<4.9	<4.9	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
B-6 (D)	03/01/07	34'-36'	1,220	<138	<55.2	<138	154	17	4	17	28	27	32	19	17	31	<4	54	26	16	49	71	56	
		14'-16'	1,400	821	<51.0	481	4,370	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Exposure Route	Inhalation (ug/Kg)	1,500	100,000	2.0 x 10 ⁷	2.0 x 10 ⁸	4.1 x 10 ⁸	1.0 x 10 ⁹	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Industrial/ Commercial	Inhalation (ug/Kg)	2,200	5.8 x 10 ⁴	1.4 x 10 ⁵	4.2 x 10 ⁴	3.2 x 10 ⁵	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Construction Worker	Inhalation (ug/Kg)	2.3 x 10 ⁶	2.0 x 10 ⁷	2.0 x 10 ⁶	4.1 x 10 ⁸	4.1 x 10 ⁸	1.2 x 10 ⁸	6.1 x 10 ⁷	6.1 x 10 ⁸	1.7 x 10 ⁵	1.7 x 10 ⁴	1.7 x 10 ⁵	6.1 x 10 ⁷	1.7 x 10 ⁶	1.7 x 10 ⁷	1.7 x 10 ⁴	8.2 x 10 ⁷	8.2 x 10 ⁷	1.7 x 10 ⁵	4.1 x 10 ⁶	6.1 x 10 ⁷	6.1 x 10 ⁷	
Soil component of the Groundwater Ingestion Exposure Route	Class I (ug/Kg)	30	13,000	320	12,000	150,000	570,000	24,000	1.2 x 10 ⁷	2,000	8,000	5,000	3.2 x 10 ⁷	49,000	160,000	2,000	4.3 x 10 ⁶	560,000	14,000	12,000	220,000	4.2 x 10 ⁶	
	Class II (ug/Kg)	170	19,000	320	29,000	150,000	2.9 x 10 ⁶	120,000	5.9 x 10 ⁷	8,000	82,000	25,000	1.6 x 10 ⁸	250,000	800,000	7,600	2.1 x 10 ⁷	2.8 x 10 ⁶	69,000	18,000	1.1 x 10 ⁶	2.1 x 10 ⁷	

Notes:

Results reported in ug/Kg

< Analyte was not detected at or above the reporting limit, as shown.

NS: No standard; soil remediation objective not defined for listed compound.

NA: Not analyzed for this parameter; insufficient volume of sample recovered to collect moisture or PNA jar of duplicate sample.

Shaded values indicate exceedance of TACO Tier 1 soil remediation objective (SRO) for the inhalation pathway for the industrial/commercial worker on industrial/commercial property.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
CONOCOPHILLIPS (ug/L)
WOOD RIVER REFINERY
ILLINOIS ROUTE 111 AND RAND AVENUE
ROXANA, ILLINOIS

Well ID:	Collection Date:	VOLATILES -8260B (ug/L)					PNAs - 8270 (ug/L)															
		Benzene	Ethylbenzene	Methyl t-butyl ether (MTBE)	Toluene	Xylenes, Total	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
B-1	03/07/07	0.040	<250	<100	<250	<250	0.29	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	0.34	<0.26	<0.26
B-3	03/02/07	65300	<5,000	<2,000	<5,000	8,100	1.76	0.32	0.17	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1.59	<0.10	402	0.92	<0.10
B-3 (D) ¹	03/02/07	NA	NA	NA	NA	NA	2.15	0.44	0.23	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1.78	<0.10	75	1.33	<0.10
B-5	03/01/07	27300	<1,000	<400	<1,000	<1,000	26.8	0.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	3.12	<0.10	910	0.2	<0.10
B-5 (D) ¹	03/01/07	23200	<1,000	<400	<1,000	<1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TACO Tier 1 GROs	Class I	5	700	70	1,000	10,000	420	210	2,100	0.13	0.2	0.18	210	0.17	1.5	0.3	280	280	0.43	140	210	210
	Class II	25	1,000	70	2,500	10,000	2,100	1,050	10,500	0.65	2	0.9	1,050	0.85	7.5	1.5	1,400	1,400	2.15	220	1,050	1,050

Notes:

Results reported in ug/L.

<: Analyte was not detected at or above the reporting limit, as shown.

NA: Not analyzed for this parameter.

Shaded values indicate exceedance of TACO Tier 1 groundwater remediation objective (GRO) for Class I.

¹ B-5 duplicate PNA bottle broke in transit to laboratory. Therefore, Volatiles (8260B) duplicate was collected from B-5, while PNA (8270) duplicate was collected from B-3.