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April 15, 2008

Mr. Kenneth Bardo - LU-9J
U.S. EPA Region V
Corrective Action Section
Enforcement Compliance Branch
77 West Jackson Boulevard
Chicago, IL 60604-3507

Re: PCB Mobility and Migration Investigation
4th Quarter 2007 Data Report
Solutia Inc., W. G. Krummrich Plant, Sauget, IL

Dear Mr. Bardo:

Enclosed please find the PCB Mobility and Migration Investigation 4th Quarter 2007 Data Report for Solutia Inc.'s W. G. Krummrich Plant, Sauget, IL.

If you have any questions or comments regarding this report, please contact me at (314) 674-3312 or gmrina@solutia.com

Sincerely,

A handwritten signature in blue ink that reads "Gerald M. Rinaldi".

Gerald M. Rinaldi
Manager, Remediation Services

Enclosure

cc: Distribution List

DISTRIBUTION LIST

PCB Mobility and Migration Investigation 4th Quarter 2007 Data Report Solutia Inc., W. G. Krummrich Plant, Sauget, IL

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4^{T H} Q U A R T E R 2 0 0 7
D A T A R E P O R T

PCB MOBILITY AND
MIGRATION INVESTIGATION

SOLUTIA INC.
W.G. KRUMMRICH FACILITY
SAUGET, ILLINOIS

Prepared for
Solutia Inc.
575 Maryville Centre Dr
St. Louis, Missouri 63141

April 2008



URS Corporation
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Project # 21561814.00004

1.0	INTRODUCTION.....	1
2.0	FIELD PROCEDURES	1
3.0	LABORATORY PROCEDURES	3
4.0	QUALITY ASSURANCE.....	4
5.0	OBSERVATIONS	4
6.0	REFERENCES.....	7

List of Figures

Figure 1	Site Location Map
Figure 2	Former PCB Manufacturing Area Monitoring Well Locations
Figure 3	Potentiometric Surface Map – Shallow Hydrogeologic Unit
Figure 4	Potentiometric Surface Map – Middle Hydrogeologic Unit
Figure 5	Total PCBs, Total Chlorobenzenes, and Benzene Results – SHU Wells
Figure 6	Total PCBs, Total Chlorobenzenes, and Benzene Results – MHU Wells

List of Tables

Table 1	Monitoring Well Gauging Information
Table 2	Groundwater Analytical Detections
Table 3	DNAPL Analytical Detections

List of Appendices

Appendix A	Groundwater Purging and Sampling Forms
Appendix B	Chains-of-Custody
Appendix C	Quality Assurance Report
Appendix D	Groundwater Analytical Results

1.0 INTRODUCTION

Solutia Inc. (Solutia) is conducting groundwater monitoring activities as outlined in the PCB Mobility and Migration Investigation Work Plan (Solutia, 2005). This report presents the results of the 4th Quarter 2007 (4Q07) sampling event as part of the Phase III Site Investigation. This is the seventh sampling event for the well network. Solutia intends to submit data reports, such as this one, for the quarterly events that make up the two-year baseline monitoring period (2Q06 to 1Q08). The site location map is presented in **Figure 1**.

The monitoring well network consists of eight monitoring wells as follows (**Figure 2**):

- Two wells are located in the source area, PMAMW04S and PSMW02, and are screened in the Shallow Hydrogeologic Unit (SHU) and Middle Hydrogeologic Unit (MHU), respectively.
- Three well clusters are located downgradient of the source area and outside of the 25 mg/kg total PCB isoconcentration line in soil, PMAMW01S/M, PMAMW02S/M and PMAMW03S/M. These clusters include wells screened in the SHU (designated with an "S") and MHU (designated with an "M").

Seven groundwater samples and one dense non-aqueous phase liquid (DNAPL) sample were obtained from the eight monitoring wells during the 4Q07 sampling event. The sample from well PSMW02 was collected as part of the Plume Stability Monitoring Program sampling event and the results are also included in this report. Laboratory data sheets and relevant field sampling information for this well are included in the 4Q07 Plume Stability Monitoring Program Data Report.

The field sampling activities were conducted in accordance with the procedures outlined in the PCB Mobility and Migration Investigation Work Plan including the collection of appropriate quality assurance and quality control (QA/QC) samples. The following section summarizes the field investigative procedures.

2.0 FIELD PROCEDURES

URS Corporation (URS) conducted the 4Q07 field activities on December 7th (groundwater level measurements) and December 18th through 20th, 2007 (groundwater/DNAPL sampling).

Groundwater Level Measurements- Static groundwater levels were measured and the presence of non-aqueous phase liquids was evaluated on December 7th, 2007 using an oil/water interface probe at the well locations. Well gauging information for the 4Q07 event is presented in **Table 1**. Monitoring well PMAMW04S had a measured DNAPL thickness of 0.85 feet. Groundwater potentiometric surface maps of the SHU and MHU are presented in **Figures 3** and **4**, respectively.

Groundwater Quality Sampling - Low-flow sampling techniques were used for groundwater sample collection. At each monitoring well where a groundwater sample was collected¹, a submersible pump attached to polyethylene tubing was slowly lowered down the well and secured so that the pump intake

¹ A groundwater sample wasn't collected from 4S because of DNAPL.

was set near the middle or slightly above the middle of the screened interval. The other end of the polyethylene tubing was connected to a flow-through cell which discharged into a 5-gallon plastic bucket. Pump flow rates were started at approximately 100 ml/min and increased to a maximum of 500 ml/min during purging. Water level measurements were initially recorded approximately every two minutes to assess whether significant drawdown was occurring. If significant drawdown occurred, the flow rates were scaled back. Drawdown was monitored to ensure that it did not exceed 25% of the distance between the pump intake and the top of the screen (approximately 0.62 ft). Once the flow rate and drawdown were stable, field measurements were collected approximately every three to five minutes. Field measurements are presented on the groundwater purging and sampling forms, in **Appendix A**. Groundwater was considered stable when the following criteria were met over a minimum of three successive flow-through cell volumes:

- pH - ± 0.2 units
- Specific Conductance - $\pm 3\%$
- Dissolved Oxygen (DO) - $\pm 10\%$ or ± 2 mg/L whichever is greater
- Oxidation-Reduction Potential (ORP) ± 20 mV

Once stabilization was achieved, samples for Volatile Organic Compounds (VOCs) analysis were typically collected at a maximum flow rate of 100 ml/min; all other samples were typically collected at a maximum flow rate of 500 ml/min consistent with the work plan in the following order:

- Semivolatile Organic Compounds (SVOCs)
- Polychlorinated biphenyls (PCBs), filtered and unfiltered (field filtered using a 0.45 micron filter)

Quality Assurance/Quality Control(QA/QC) samples consisting of analytical duplicates (AD) and equipment blanks (EB) were collected at a rate of 10% and matrix spike/matrix spike duplicates (MS/MSD) were collected at a rate of 5%, complying with the work plan. In addition, trip blanks (TB) accompanied each shipment containing samples for VOC analysis. All samples were submitted to the TestAmerica Laboratories, Inc. (TestAmerica) facility in Savannah, Georgia for analysis.

The sample identification system for groundwater samples included the following nomenclature “PMAMW02S-1207” which denotes the former PCB Manufacturing Area monitoring well number 2S sampled in December 2007. QA/QC samples are identified by the suffix AD, EB or MS/MSD.

Field personnel recorded the project identification and number, sample description/location, required analysis, date and time of sample collection, type and matrix of sample, number of sample containers, analysis requested/comments, and sampler signature/date/time, with permanent ink on the chain-of-custody (COC). COC forms are included in **Appendix B**.

Samples were placed on ice inside a cooler immediately following sampling. Sample containers were packed in such a way as to help prevent breakage. Samples were shipped in coolers, each containing ice to maintain inside temperature at approximately 4°C. Sample coolers were sealed between the lid

and sides of the cooler with a custody seal prior to shipment. The samples were shipped to the TestAmerica facility in Savannah, Georgia by means of FedEx[®] Priority Overnight delivery service or DHL Express delivery service.

DNAPL Sampling - At monitoring well PMAMW04S, polyethylene and silicone tubing attached to a peristaltic pump was slowly lowered down the well and secured so that the intake was set within the DNAPL interval. DNAPL was pumped through the polyethylene tubing into 1-Liter glass sample containers to allow for phase separation (three containers filled). A peristaltic pump and clean tubing were then used to transfer DNAPL from the 1-Liter containers to two 40 ml sample jars. Pump flow rates were between 100 ml/min and 500 ml/min during sampling. Water level and DNAPL measurements were initially recorded with an interface probe before sampling. The DNAPL layer was 0.85 feet thick at the time of sampling.

DNAPL was analyzed for the following constituents:

- VOCs
- SVOCs
- PCBs.

The DNAPL sample was submitted to the TestAmerica facility in Savannah, Georgia for analysis. The sample identification system for DNAPL samples included the following nomenclature “PMAMW04S-1207-DNAPL” which denotes a DNAPL sample collected from the former PCB Manufacturing Area monitoring well number 4S, sampled in December 2007.

Field personnel recorded the project identification and number, sample description/location, required analysis, date and time of sample collection, type and matrix of sample, number of sample containers, analysis requested/comments, and sampler signature/date/time, with permanent ink on the chain-of-custody (COC). COC forms are included in **Appendix B**.

The sample was placed on ice inside a cooler immediately following sampling. Sample containers were packed in UN specified packaging for airborne shipment of PCBs (liquid) with outer packaging and absorbent material to help prevent breakage. The cooler contained ice to maintain an inside temperature at approximately 4°C. Sample coolers were sealed between the lid and sides of the cooler with a custody seal prior to shipment. The samples were shipped to the TestAmerica facility in Savannah, Georgia by means of DHL Express delivery service.

3.0 LABORATORY PROCEDURES

Samples were analyzed by TestAmerica for the 40 CFR 264 Appendix IX VOCs, SVOCs and PCBs using the following methodologies:

- VOCs, via Method 8260B
- SVOCs, via Method 8270C
- PCBs, via Method 680.

Dichlorobenzenes were quantitated using Method 8260B because of potential volatilization losses associated with Method 8270C. Laboratory results were provided in electronic and hard copy formats.

4.0 QUALITY ASSURANCE

Analytical data were reviewed for quality and completeness as described in the PCB Mobility and Migration Investigation Work Plan. Data qualifiers were added, as appropriate, and are included on the data tables and the laboratory result pages. The Quality Assurance report is included as **Appendix C**. Laboratory result pages (i.e. Form 1's) along with data validation review sheets are included in **Appendix D**.

A total of 11 samples (seven investigative groundwater samples, one field duplicate, one MS/MSD pair, one equipment blank) were prepared and analyzed by TestAmerica for combinations of VOCs, SVOCs and PCBs. In addition, two trip blanks were included in the coolers that contained samples for VOC analysis and were analyzed for VOCs by USEPA SW-846 Method 8260B. The results for the various analyses were submitted as sample delivery groups (SDGs) KPM012, KPM013 and KPM014.

Evaluation of the analytical data followed procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA 1999) and the PCB Mobility and Migration Investigation Work Plan, (URS 2005). Based on the above mentioned criteria, results reported for the analyses performed were accepted for their intended use, with the exception of rejected "R" data. Acceptable levels of accuracy and precision, based on MS/MSD, LCS, surrogate and field duplicate data were achieved for these SDGs to meet the project objectives. Completeness, which is defined to be the percentage of analytical results which are judged to be valid, including estimated (J/UJ) data, was 99.6 percent. Rejected data were associated with the LCS for both 3, 3-Dichlorobenzidine and p-Phenylenediamine, which are not one of the primary constituents of concern at this site. Additional information regarding LCS data is provided in the Quality Assurance report (**Appendix C**) and data validation review sheets (**Appendix D**).

5.0 OBSERVATIONS

This section presents a brief summary of the DNAPL and groundwater analytical results from the 4Q07 sampling event. The following constituents were detected in groundwater samples for the 4Q07 event:

<u>VOCs</u>	<u>SVOCs</u>	<u>PCBs</u>
1,2-dichlorobenzene	2-chlorophenol	dichlorobiphenyl
1,3-dichlorobenzene	p-chloroaniline	heptachlorobiphenyl
1,4-dichlorobenzene	naphthalene	hexachlorobiphenyl
benzene	phenol	monochlorobiphenyl
chlorobenzene		pentachlorobiphenyl
ethylbenzene		tetrachlorobiphenyl
total xylenes		trichlorobiphenyl

The DNAPL and groundwater results are presented in **Tables 2** and **3**, respectively.

Benzene and chlorobenzene were the only constituents detected in all of groundwater samples collected from these monitoring wells. PCBs were detected at each of the monitoring well clusters. Consequently, benzene, chlorobenzene and total PCBs were the constituents chosen to evaluate groundwater migration from the Former PCB Manufacturing Area in the SHU and MHU.

Shallow Hydrogeologic Unit - Total PCBs were detected at a concentration of 154,000,000 ug/Kg (15.4%) in the DNAPL sample collected from source area monitoring well PMAMW04S. DNAPL concentrations were 360,600,000 ug/Kg (36.1%) and 533,700,000 ug/Kg (53.4%) in 2Q07 and 3Q07, respectively. No groundwater sample was collected from this well since USEPA directed Solutia not to analyze groundwater samples from a well containing DNAPL. PMAMW04S has contained measurable DNAPL in six of the seven sampling events; DNAPL was absent in 1Q07. Chlorobenzene was detected at a concentration of 135,860,000 ug/Kg; however benzene was not detected in the DNAPL at a reporting limit of 250,000 ug/Kg.

No PCBs were detected in two of three downgradient PCB Mobility and Migration monitoring wells (PMAMW01S and PMAMW02S) while PCBs were detected at a concentration of 0.21 ug/L (filtered 0.22 ug/L) in the third downgradient monitoring well sample (PMAMW03S). These data indicate that PCBs in the SHU attenuated over the 300 to 400 ft distance between PMAMW04S and the three downgradient monitoring wells.

Benzene and chlorobenzene were detected in the three downgradient monitoring well clusters. Benzene was detected at concentrations of 140 ug/L, 110 ug/L, 45 ug/L, respectively, in downgradient monitoring wells PMAMW01S, 02S, and 03S while chlorobenzene was detected at concentrations of 15 ug/L, 29 ug/L, 45 ug/L, respectively.

Middle Hydrogeologic Unit – Total PCBs were detected at a concentration of 0.23 ug/L in Plume Stability Monitoring Well PSMW02, which is located adjacent to PMAMW04S in the Former PCB Manufacturing Area. Total PCBs were detected in the three downgradient monitoring wells at concentrations of 48 ug/L (filtered 51.1 ug/L) (PMAMW01M), 2.6/3.1 ug/L (duplicate) (filtered 1.9/1.6 ug/L (duplicate)) (PMAMW02M), and 0.76 ug/L (filtered 0.31 ug/L) (PMAMW03M). These data indicate that PCBs have attenuated as recharge from the SHU reached the MHU.

Benzene and chlorobenzene were detected at concentrations of 7,700 ug/L and 1,600 ug/L, respectively, in source area monitoring well PSMW02. Benzene was detected at concentrations of 1,200 ug/L, 5,600/5,700 ug/L (duplicate) and 1,700 ug/L, in downgradient monitoring wells PMAMW01M, 02M and 03M, respectively, while chlorobenzene was detected at concentrations of 1,200 ug/L, 8,200/8,000 ug/L (duplicate), and 1,600 ug/L.

Figures 5 and 6 display the results for PCBs (unfiltered and filtered), benzene, and total chlorobenzenes for the 1Q07, 2Q07, 3Q07, and 4Q07 sampling events for the SHU and MHU, respectively. Data from the 4Q07 sampling event are generally consistent with the results from previous sampling events (Solutia, 2006B; Solutia, 2007A; Solutia, 2007B; Solutia, 2007C; Solutia, 2007D; Solutia, 2008A; Solutia, 2008B) except for the anomalous detection of 48 ug/L of Total PCBS in PMA MW-1M, which had Total PCB concentrations ranging from ND to 0.29 ug/L in the six prior sampling rounds.

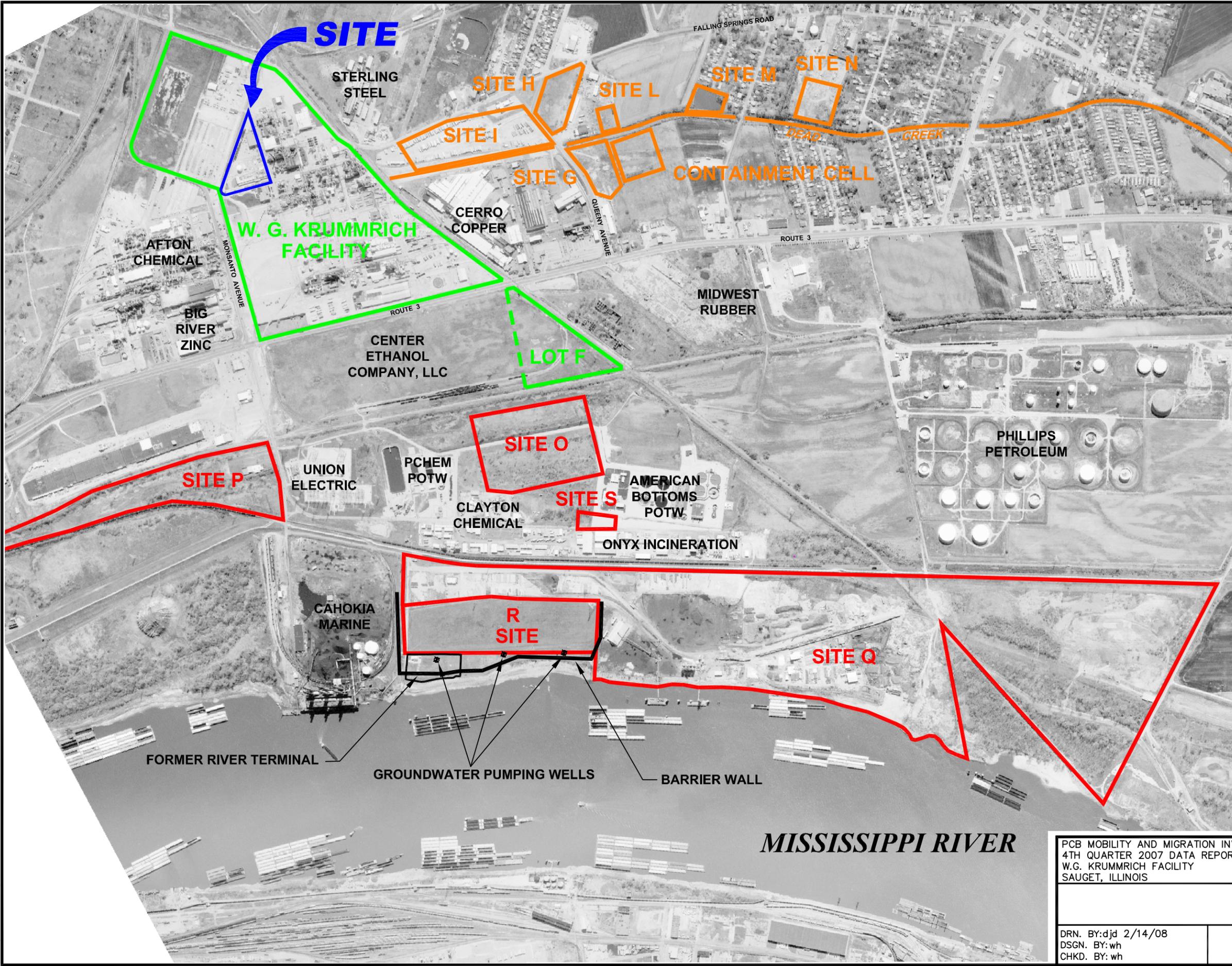
Solutia will continue to collect groundwater samples on a quarterly basis and will prepare reports similar to this.

6.0 REFERENCES

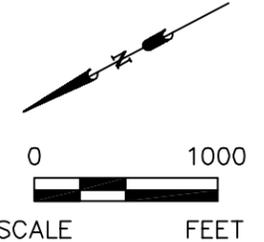
- U.S. Environmental Protection Agency (USEPA), 1999. Contract Laboratory Program National Functional Guidelines for Organic Data Review.
- Solutia Inc, 2005. PCB Mobility and Migration Investigation Plan, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, October 2005.
- Solutia Inc, 2006A. "PCB Well Info." E-mail to USEPA. 26 July 2006.
- Solutia Inc, 2006B. PCB Mobility and Migration Investigation 2nd Quarter 2006 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, October 2006.
- Solutia Inc, 2007A. PCB Mobility and Migration Investigation 3rd Quarter 2006 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, January 2007.
- Solutia Inc, 2007B. PCB Mobility and Migration Investigation 4th Quarter 2006 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, May 2007.
- Solutia Inc, 2007C. PCB Mobility and Migration Investigation 1st Quarter 2007 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, July 2007.
- Solutia Inc, 2007D. PCB Mobility and Migration Investigation 2nd Quarter 2007 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, November 2007.
- Solutia Inc, 2008A. PCB Mobility and Migration Investigation 3rd Quarter 2007 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, January 2008.
- Solutia Inc, 2008B. Plume Stability Monitoring Program 4th Quarter 2007 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, March 2008.

Figures

File: P:\ENVIRONMENTAL\21561640.00000 Solutia Wgk PCB MOBILITY AND MIGRATION INVESTIGATION\4TH QUARTER 2007 SAMPLING EVENT\4TH QTR 2007 REPORT\FIGURES\FIG 1 SITE LOCATION MAP.DWG Last edited: MAR. 17. 08 @ 12:52 p.m. by: drew_brouk

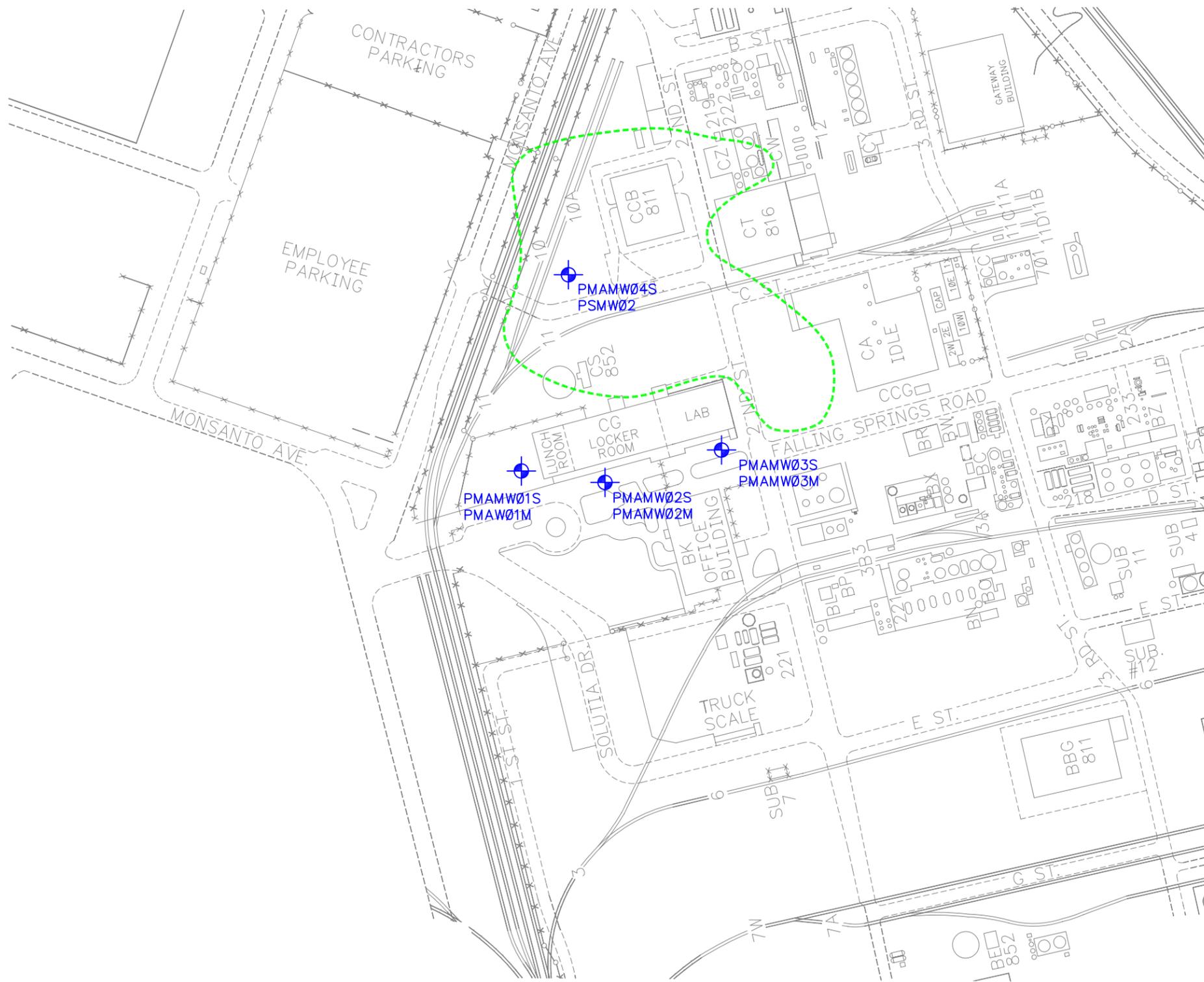


- LEGEND**
- W.G. KRUMMRICH FACILITY
 - SAUGET AREA #1
 - SAUGET AREA #2



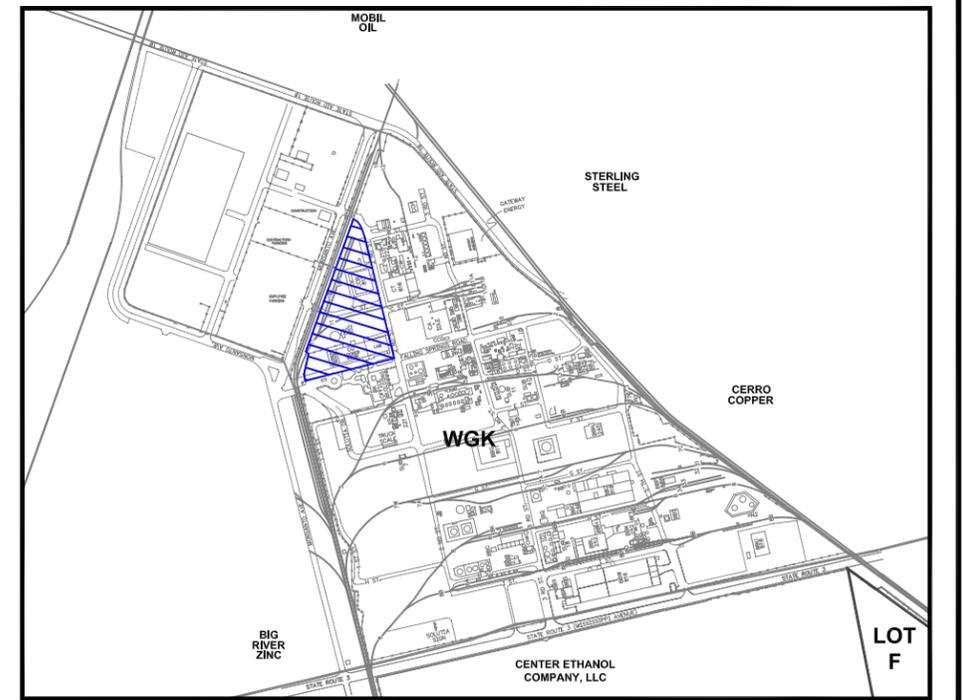
PCB MOBILITY AND MIGRATION INVESTIGATION 4TH QUARTER 2007 DATA REPORT W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS	PROJECT NO. 21561814.00004
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URS	
DRN. BY:djd 2/14/08 DSGN. BY:wh CHKD. BY:wh	Site Location Map
	FIG. NO. 1



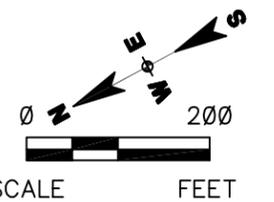
LEGEND

-  MONITORING WELL LOCATION
-  APPROXIMATE 25 mg/kg TOTAL PCB CONTOUR LINE (SOIL)



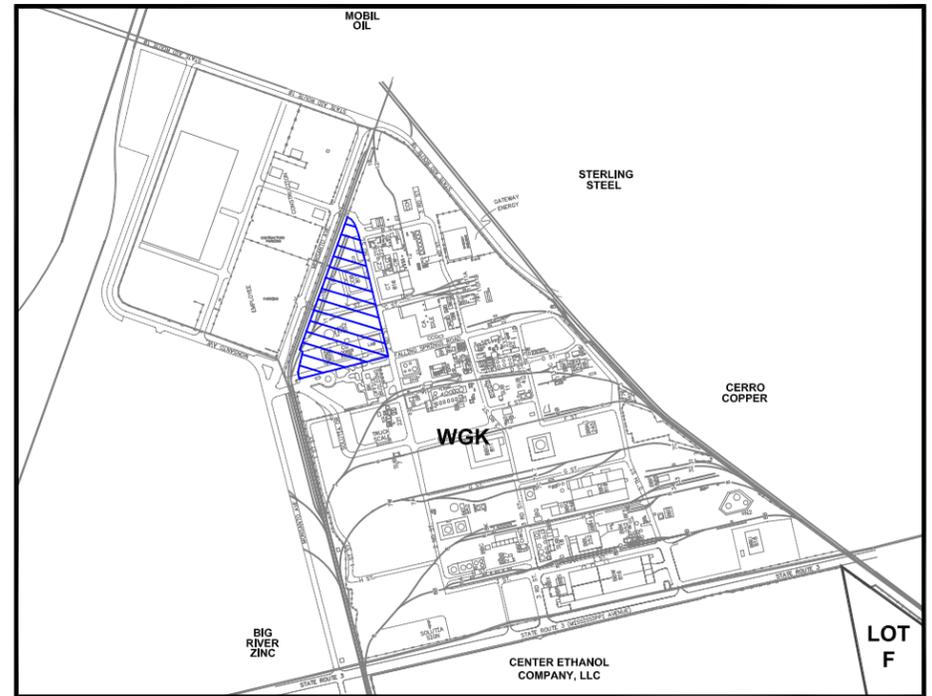
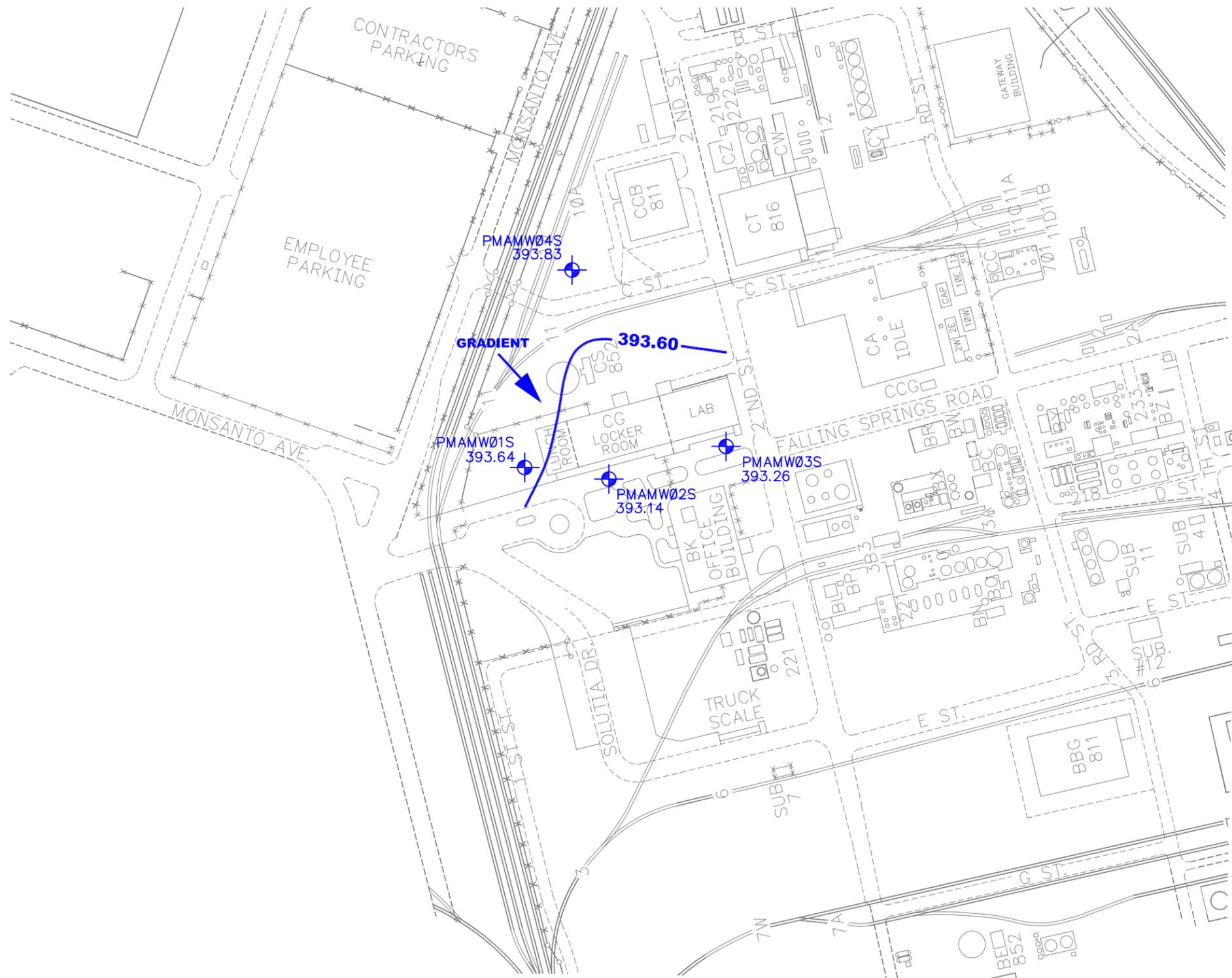
KEYMAP

1" = 1000'



PCB MOBILITY AND MIGRATION INVESTIGATION 4TH QUARTER 2007 DATA REPORT W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS		PROJECT NO. 21561814.00004
		
DRN. BY: djd 2/14/08 DSGN. BY: wh CHKD. BY: wh	Former PCB Manufacturing Area Monitoring Well Locations	FIG. NO. 2

File: P:\ENVIRONMENTAL\21561640\00000 SOLUTIA WGK PCB MOBILITY AND MIGRATION INVESTIGATION\4TH QUARTER 2007 SAMPLING EVENT\4TH QTR 2007 REPORT\FIGURES\FIG-3 (SHALLOW).DWG Last edited: MAR. 17. 08 @ 12:39 p.m. by: curt_smith

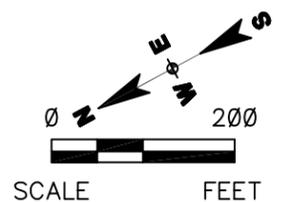


KEYMAP
1" = 1000'

LEGEND

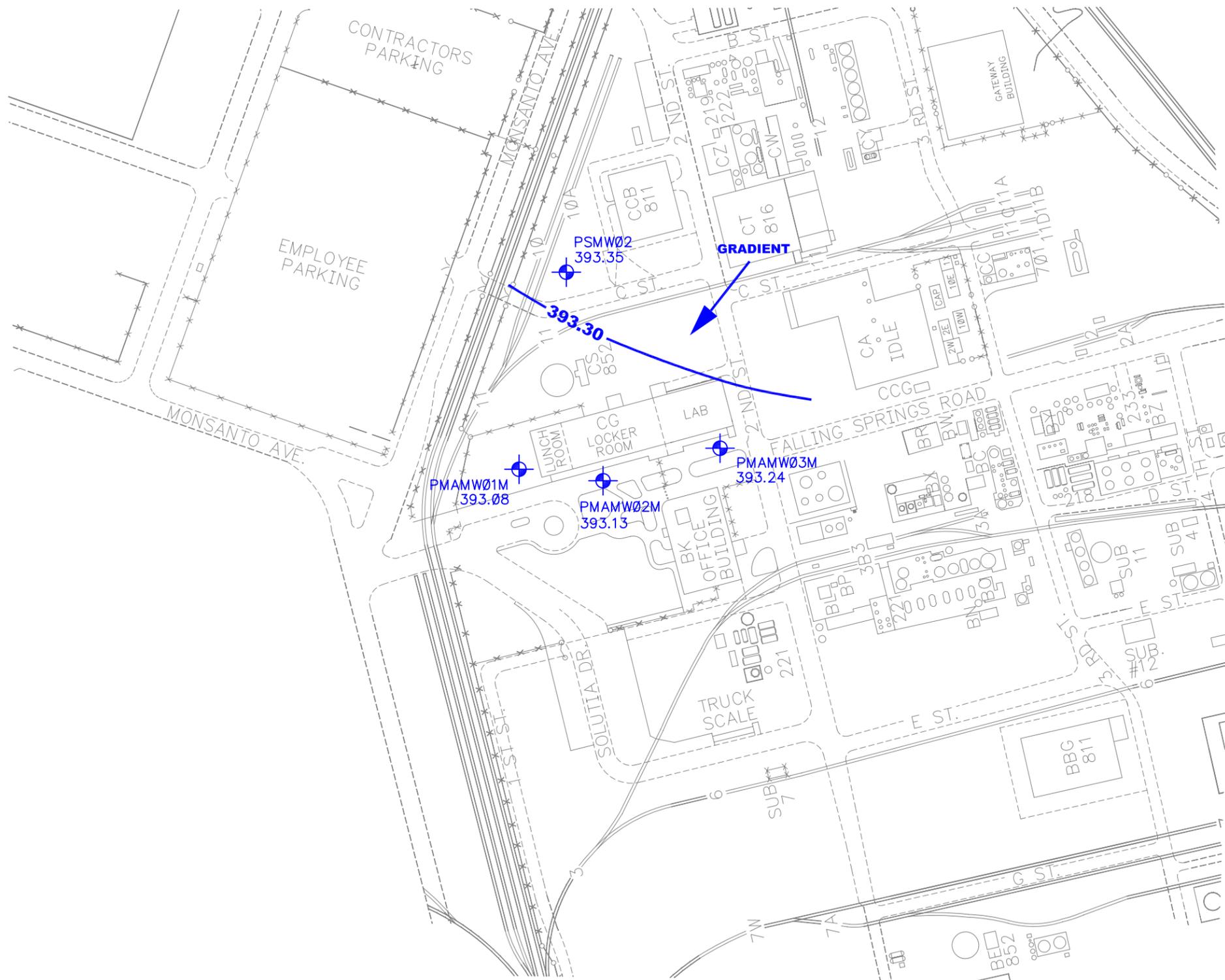
-  MONITORING WELL LOCATION
-  -393.60- GROUNDWATER ELEVATION CONTOUR (FT NAVD)

NOTE:
GROUNDWATER LEVEL MEASUREMENTS WERE
RECORDED ON DECEMBER 7, 2007.



PCB MOBILITY AND MIGRATION INVESTIGATION 4TH QUARTER 2007 DATA REPORT W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS		PROJECT NO. 21561814.00004
URS		FIG. NO. 3
DRN. BY: djd 2/14/08 DSGN. BY: wh CHKD. BY: wh	Potentiometric Surface Map— Shallow Hydrogeologic Unit	

File: P:\ENVIRONMENTAL\21561640\00000 SOLUTIA WGK PCB MOBILITY AND MIGRATION INVESTIGATION\4TH QUARTER 2007 SAMPLING EVENT\4TH QTR 2007 REPORT\FIGURES\FIG-4 MIDDLE.DWG Last edited: MAR 17 08 12:53 p.m. by: curt-smith

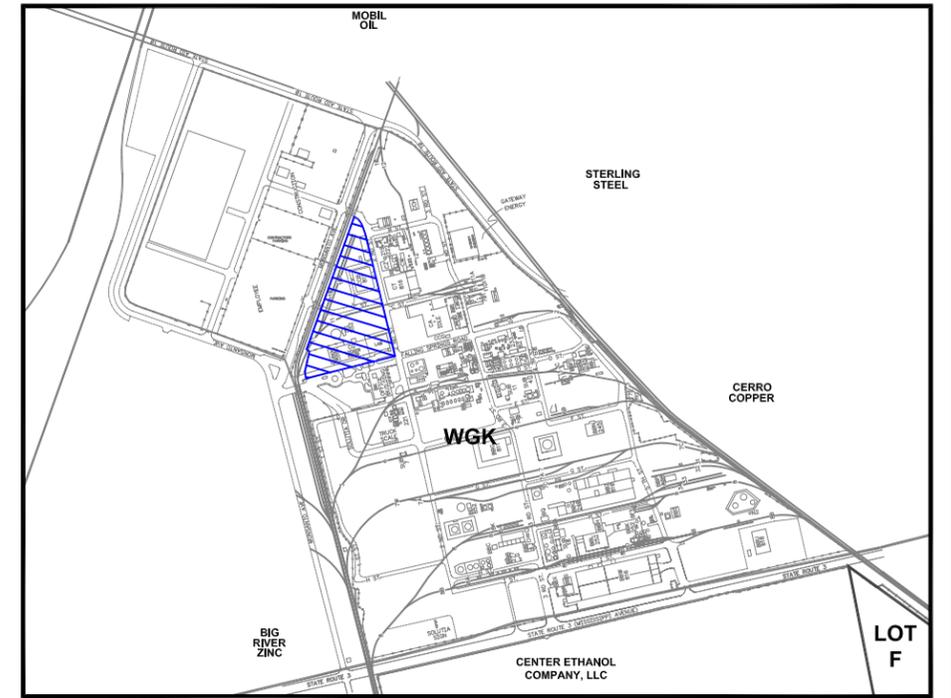


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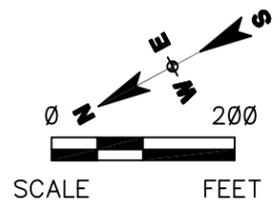
MONITORING WELL LOCATION

393.30 GROUNDWATER ELEVATION CONTOUR (FT NAVD)

NOTE:
GROUNDWATER LEVEL MEASUREMENTS WERE
RECORDED ON DECEMBER 7, 2007.



KEYMAP
1" = 1000'



PCB MOBILITY AND MIGRATION INVESTIGATION 4TH QUARTER 2007 DATA REPORT W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS	PROJECT NO. 21561814.00004
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DRN. BY:djd 2/14/08
DSGN. BY:wh
CHKD. BY:wh

Potentiometric Surface Map—
Middle Hydrogeologic Unit

FIG. NO.
4

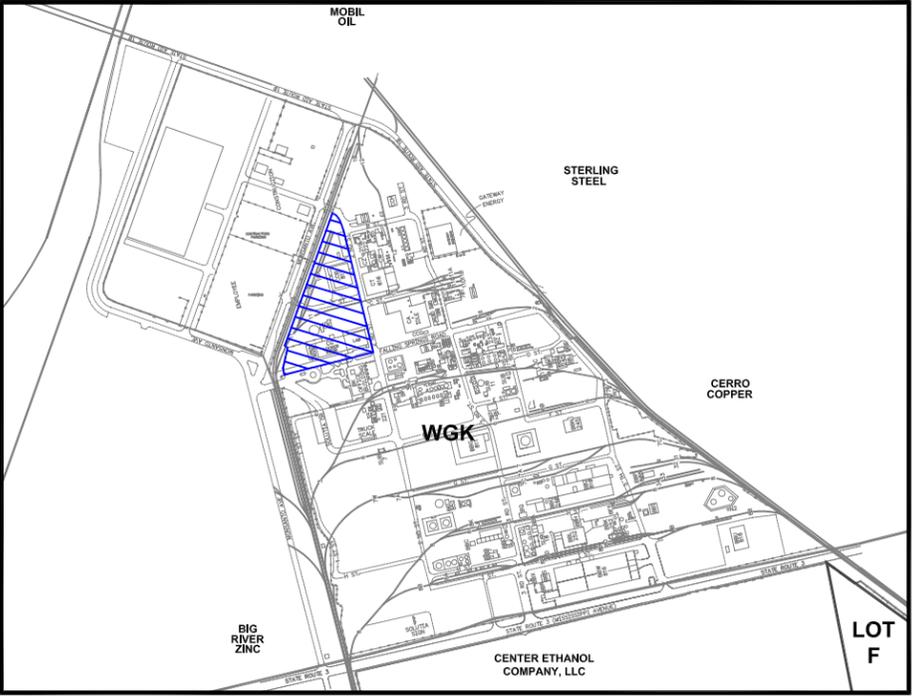
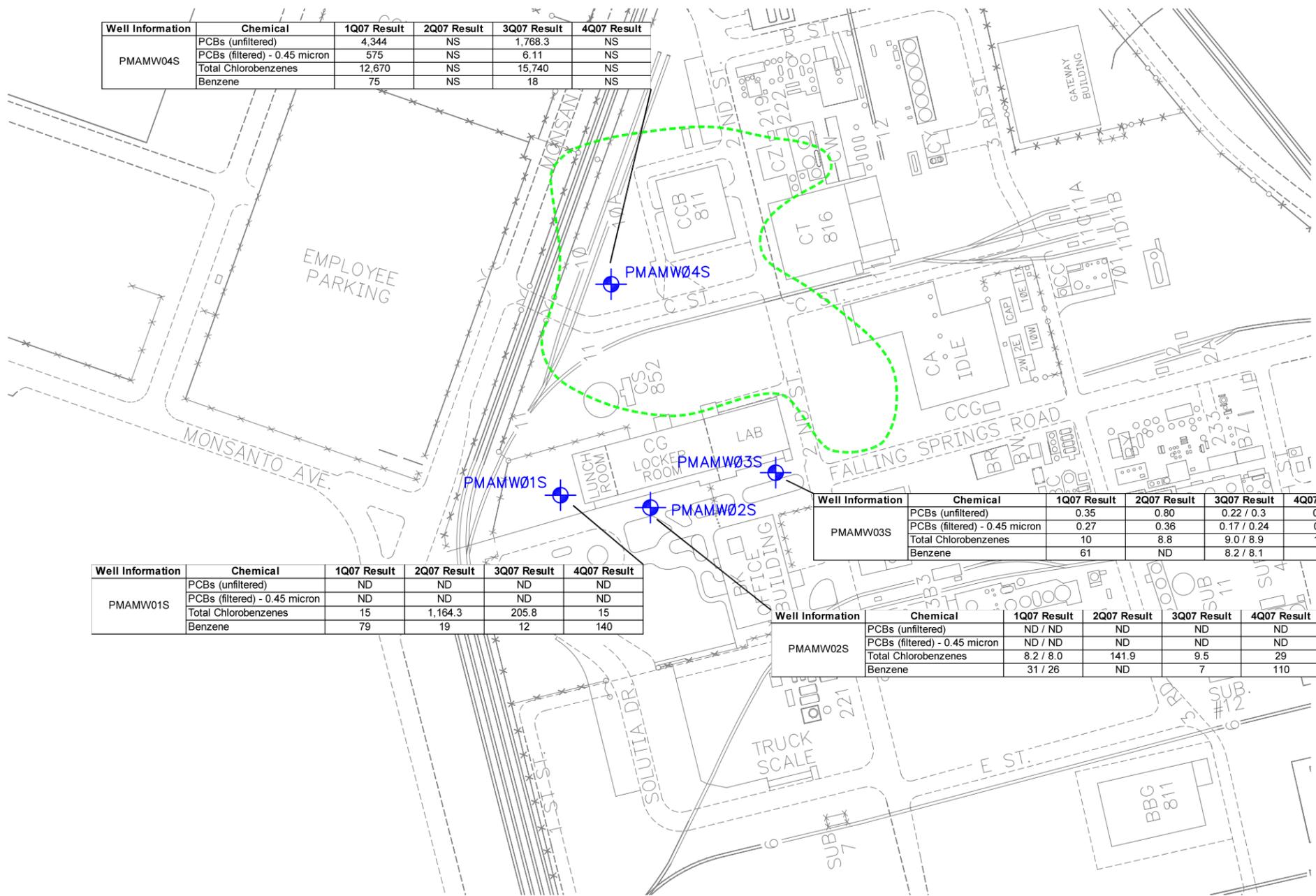
File: P:\ENVIRONMENTAL\21561640\00000 SOLUTIA W.G. PCB MOBILITY AND MIGRATION INVESTIGATION\4TH QUARTER 2007 REPORT\FIGURES\FIG-5 TOTAL PCB.DWG Last edited: MAR. 17. 08 @ 4:40 p.m. by: curt_smith

Well Information	Chemical	1Q07 Result	2Q07 Result	3Q07 Result	4Q07 Result
PMAMW04S	PCBs (unfiltered)	4,344	NS	1,768.3	NS
	PCBs (filtered) - 0.45 micron	575	NS	6.11	NS
	Total Chlorobenzenes	12,670	NS	15,740	NS
	Benzene	75	NS	18	NS

Well Information	Chemical	1Q07 Result	2Q07 Result	3Q07 Result	4Q07 Result
PMAMW01S	PCBs (unfiltered)	ND	ND	ND	ND
	PCBs (filtered) - 0.45 micron	ND	ND	ND	ND
	Total Chlorobenzenes	15	1,164.3	205.8	15
	Benzene	79	19	12	140

Well Information	Chemical	1Q07 Result	2Q07 Result	3Q07 Result	4Q07 Result
PMAMW03S	PCBs (unfiltered)	0.35	0.80	0.22 / 0.3	0.21
	PCBs (filtered) - 0.45 micron	0.27	0.36	0.17 / 0.24	0.22
	Total Chlorobenzenes	10	8.8	9.0 / 8.9	17.2
	Benzene	61	ND	8.2 / 8.1	45

Well Information	Chemical	1Q07 Result	2Q07 Result	3Q07 Result	4Q07 Result
PMAMW02S	PCBs (unfiltered)	ND / ND	ND	ND	ND
	PCBs (filtered) - 0.45 micron	ND / ND	ND	ND	ND
	Total Chlorobenzenes	8.2 / 8.0	141.9	9.5	29
	Benzene	31 / 26	ND	7	110

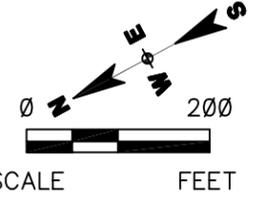


KEYMAP

1" = 1000'

NOTES:

- 1) TOTAL CHLOROENZENES RESULTS INCLUDE THE SUM OF MONOCHLOROENZENE, 1,2-DICHLOROENZENE, 1,3-DICHLOROENZENE, 1,4-DICHLOROENZENE, AND 1,2,4-TRICHLOROENZENE.
- 2) TOTAL PCBs RESULTS INCLUDE THE SUM OF ALL METHOD 680 HOMOLOGS.
- 3) RESULTS SHOWN ARE IN ug/L.
- 4) ND DENOTES NOT DETECTED
- 5) MULTIPLE SAMPLE RESULTS INDICATE A DUPLICATE SAMPLE.
- 6) NS DENOTES PMAMW04S CONTAINED DNAPL AND THE GROUNDWATER WAS NOT SAMPLED DURING THE EVENT (2Q07 AND 4Q07), BOTH DNAPL AND GROUNDWATER WERE SAMPLED DURING 3Q07. DNAPL WAS NOT PRESENT DURING 1Q07 EVENT.



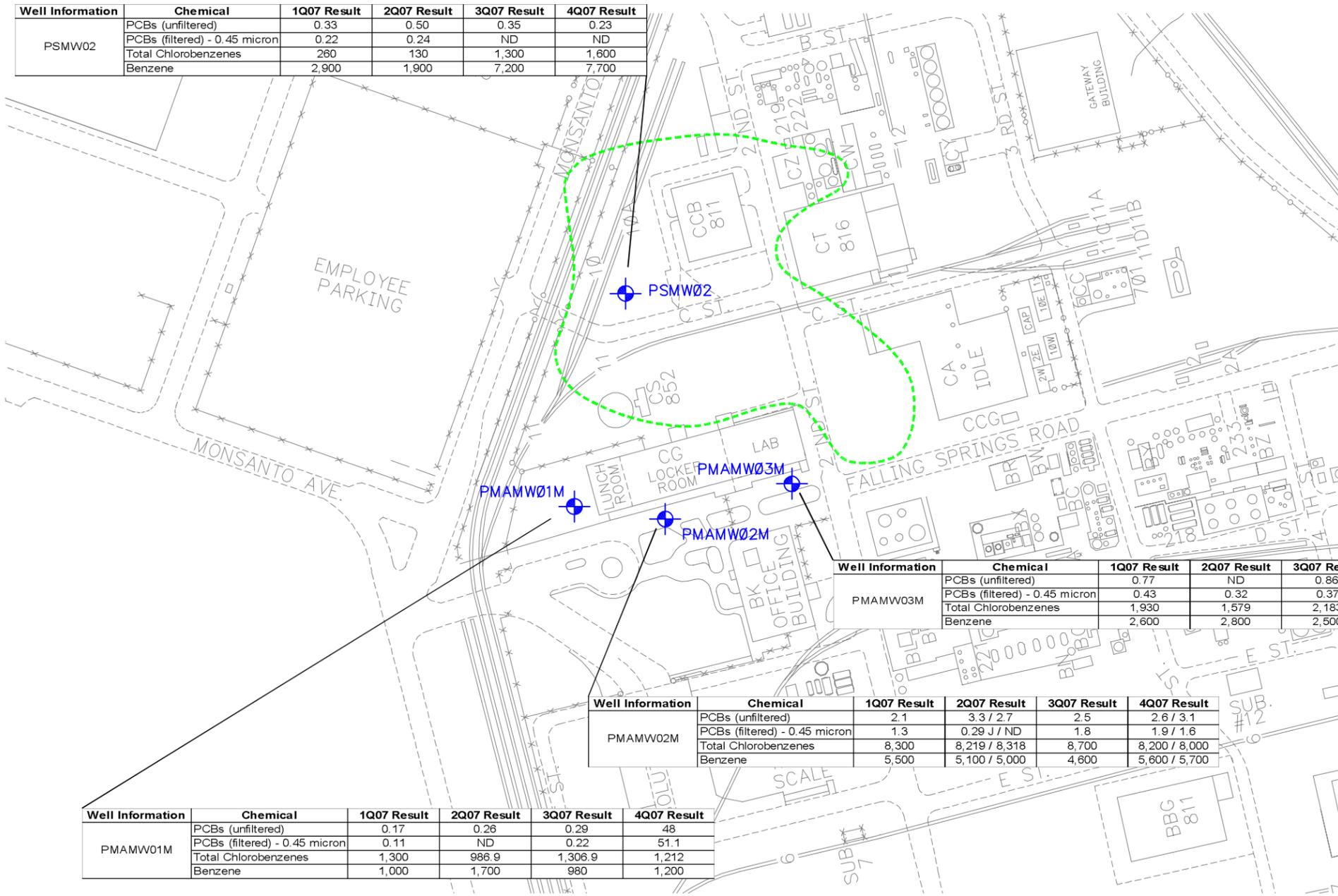
LEGEND

- MONITORING WELL LOCATION
- APPROXIMATE 25 mg/kg TOTAL PCB CONTOUR LINE (SOIL)

PCB MOBILITY AND MIGRATION INVESTIGATION 4TH QUARTER 2007 DATA REPORT W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS		PROJECT NO. 21561814.00004
URS		
DRN. BY: djd 2/14/08 DSGN. BY: wh CHKD. BY: wh	Total PCBs, Total Chlorobenzenes, and Benzene Results – SHU Wells	FIG. NO. 5

File: P:\ENVIRONMENTAL\21561640\000000 SOLUTIA WGK PCB MOBILITY AND MIGRATION INVESTIGATION\4TH QUARTER 2007 REPORT\FIGURES\FIG-6 TOTAL PCB AND CHLOROBENZENE.DWG Last edited: APR. 11. 08 @ 2:44 p.m. by: david_desjardis

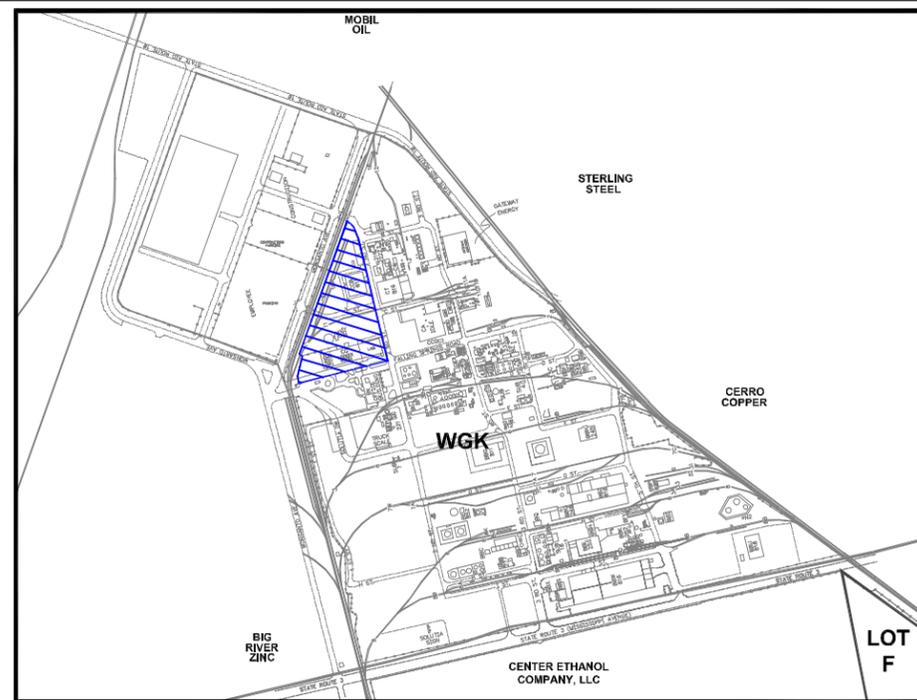
Well Information	Chemical	1Q07 Result	2Q07 Result	3Q07 Result	4Q07 Result
PSMW02	PCBs (unfiltered)	0.33	0.50	0.35	0.23
	PCBs (filtered) - 0.45 micron	0.22	0.24	ND	ND
	Total Chlorobenzenes	260	130	1,300	1,600
	Benzene	2,900	1,900	7,200	7,700



Well Information	Chemical	1Q07 Result	2Q07 Result	3Q07 Result	4Q07 Result
PMAMW03M	PCBs (unfiltered)	0.77	ND	0.86	0.76
	PCBs (filtered) - 0.45 micron	0.43	0.32	0.37	0.31
	Total Chlorobenzenes	1,930	1,579	2,183	2,312
	Benzene	2,600	2,800	2,500	1,700

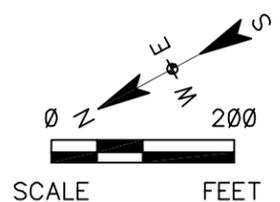
Well Information	Chemical	1Q07 Result	2Q07 Result	3Q07 Result	4Q07 Result
PMAMW02M	PCBs (unfiltered)	2.1	3.3 / 2.7	2.5	2.6 / 3.1
	PCBs (filtered) - 0.45 micron	1.3	0.29 J / ND	1.8	1.9 / 1.6
	Total Chlorobenzenes	8,300	8,219 / 8,318	8,700	8,200 / 8,000
	Benzene	5,500	5,100 / 5,000	4,600	5,600 / 5,700

Well Information	Chemical	1Q07 Result	2Q07 Result	3Q07 Result	4Q07 Result
PMAMW01M	PCBs (unfiltered)	0.17	0.26	0.29	48
	PCBs (filtered) - 0.45 micron	0.11	ND	0.22	51.1
	Total Chlorobenzenes	1,300	986.9	1,306.9	1,212
	Benzene	1,000	1,700	980	1,200



KEYMAP
1" = 1000'

- NOTES:
- 1) TOTAL CHLOROBENZENES RESULTS INCLUDE THE SUM OF MONOCHLORO BENZENE, 1,2-DICHLORO BENZENE, 1,3-DICHLORO BENZENE, 1,4-DICHLORO BENZENE, AND 1,2,4-TRICHLORO BENZENE.
 - 2) TOTAL PCBs RESULTS INCLUDE THE SUM OF ALL METHOD 680 HOMOLOGS.
 - 3) RESULTS SHOWN ARE IN ug/L.
 - 4) ND DENOTES NOT DETECTED.
 - 5) MULTIPLE SAMPLE RESULTS INDICATE A DUPLICATE SAMPLE.



LEGEND

- MONITORING WELL LOCATION
- APPROXIMATE 25 mg/kg TOTAL PCB CONTOUR LINE (SOIL)

PCB MOBILITY AND MIGRATION INVESTIGATION 4TH QUARTER 2007 DATA REPORT W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS		PROJECT NO. 21561814.00004
URS		
DRN. BY: djd 2/14/08 DSGN. BY: wh CHKD. BY: wh	Total PCBs, Total Chlorobenzenes, and Benzene Results—MHU Wells	FIG. NO. 6

Tables

**Table 1
Monitoring Well Gauging Information**

Well ID	Construction Details						December 7, 2007			
	Ground Elevation (ft)*	Casing Elevation (ft)*	Depth to Top of Screen (ft)**	Depth to Bottom of Screen (ft)**	Top of Screen Elevation (ft)*	Bottom of Screen Elevation (ft)*	Depth to Water (ft) ***	Depth to Product (ft) ***	Depth to Bottom (ft)***	Water Elevation (ft)*
Shallow Hydrogeologic Unit (SHU 395 - 380 ft NAVD)										
PMAMW01S	410.30	410.06	20.18	25.18	390.12	385.37	16.42	-	24.93	393.64
PMAMW02S	412.27	411.66	22.94	27.94	389.33	385.01	18.52	-	27.26	393.14
PMAMW03S	412.37	412.06	22.71	27.71	389.66	384.97	18.80	-	27.40	393.26
PMAMW04S	411.09	410.43	20.99	25.99	390.10	385.74	16.60	24.50	25.35	393.83
Middle Hydrogeologic Unit (MHU 380 - 350 ft NAVD)										
PMAMW01M	410.32	410.08	54.54	59.54	355.78	350.71	17.00	-	59.61	393.08
PMAMW02M	412.26	411.93	56.87	61.87	355.39	350.71	18.80	-	61.55	393.13
PMAMW03M	412.36	412.10	57.07	62.07	355.29	350.56	18.86	-	61.80	393.24
PSMW02	411.22	410.88	68.84	73.84	342.38	337.89	17.53	-	73.33	393.35

Note:

* Elevation based upon North American Vertical Datum (NAVD) 88 datum.

** Feet below ground surface.

*** Depth is measured from top of casing (TOC).

Table 2
Groundwater Analytical Detections

Sample ID	Sample Date	Chemical Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
PMAMW01S-1207	12/18/07	VOCs	1,2-Dichlorobenzene	10	ug/L		
PMAMW01S-1207	12/18/07	VOCs	1,3-Dichlorobenzene	1.2	ug/L		
PMAMW01S-1207	12/18/07	VOCs	1,4-Dichlorobenzene	15	ug/L		
PMAMW01S-1207	12/18/07	VOCs	Benzene	140	ug/L		
PMAMW01S-1207	12/18/07	VOCs	Chlorobenzene	15	ug/L		
PMAMW01M-1207	12/18/07	VOCs	1,4-Dichlorobenzene	12	ug/L		
PMAMW01M-1207	12/18/07	VOCs	Benzene	1,200	ug/L		
PMAMW01M-1207	12/18/07	VOCs	Chlorobenzene	1,200	ug/L		
PMAMW01M-1207	12/18/07	SVOCs	P-Chloroaniline	62	ug/L		
PMAMW01M-1207	12/18/07	SVOCs	Phenol	20	ug/L		
PMAMW01M-1207	12/18/07	PCBs	Heptachlorobiphenyl	11	ug/L		
PMAMW01M-1207	12/18/07	PCBs	Hexachlorobiphenyl	13	ug/L		
PMAMW01M-1207	12/18/07	PCBs	Pentachlorobiphenyl	8.2	ug/L		
PMAMW01M-1207	12/18/07	PCBs	Tetrachlorobiphenyl	12	ug/L		
PMAMW01M-1207	12/18/07	PCBs	Trichlorobiphenyl	3.8	ug/L		
PMAMW01M-F-1207	12/18/07	PCBs	Heptachlorobiphenyl	10	ug/L		
PMAMW01M-F-1207	12/18/07	PCBs	Hexachlorobiphenyl	14	ug/L		
PMAMW01M-F-1207	12/18/07	PCBs	Pentachlorobiphenyl	9.1	ug/L		
PMAMW01M-F-1207	12/18/07	PCBs	Tetrachlorobiphenyl	13	ug/L		
PMAMW01M-F-1207	12/18/07	PCBs	Trichlorobiphenyl	5	ug/L		
PMAMW02S-1207	12/19/07	VOCs	1,2-Dichlorobenzene	6.4	ug/L		
PMAMW02S-1207	12/19/07	VOCs	1,4-Dichlorobenzene	5.1	ug/L		
PMAMW02S-1207	12/19/07	VOCs	Benzene	110	ug/L		
PMAMW02S-1207	12/19/07	VOCs	Chlorobenzene	29	ug/L		
PMAMW02M-1207	12/19/07	VOCs	Benzene	5,600	ug/L		
PMAMW02M-1207	12/19/07	VOCs	Chlorobenzene	8,200	ug/L		
PMAMW02M-1207	12/19/07	SVOCs	2-Chlorophenol	12	ug/L		
PMAMW02M-1207	12/19/07	SVOCs	P-Chloroaniline	94	ug/L		
PMAMW02M-1207	12/19/07	SVOCs	Phenol	36	ug/L		
PMAMW02M-1207	12/19/07	PCBs	Monochlorobiphenyl	2.6	ug/L		
PMAMW02M-F-1207	12/19/07	PCBs	Monochlorobiphenyl	1.9	ug/L		
PMAMW02M-1207-AD	12/19/07	VOCs	Benzene	5,700	ug/L		
PMAMW02M-1207-AD	12/19/07	VOCs	Chlorobenzene	8,000	ug/L		
PMAMW02M-1207-AD	12/19/07	SVOCs	2-Chlorophenol	10	ug/L		
PMAMW02M-1207-AD	12/19/07	SVOCs	P-Chloroaniline	80	ug/L		
PMAMW02M-1207-AD	12/19/07	SVOCs	Phenol	32	ug/L		
PMAMW02M-1207-AD	12/19/07	PCBs	Monochlorobiphenyl	3.1	ug/L		
PMAMW02M-F-1207-AD	12/19/07	PCBs	Monochlorobiphenyl	1.6	ug/L		
PMAMW03S-1207	12/19/07	VOCs	1,2-Dichlorobenzene	4	ug/L		
PMAMW03S-1207	12/19/07	VOCs	1,4-Dichlorobenzene	3.8	ug/L		
PMAMW03S-1207	12/19/07	VOCs	Benzene	45	ug/L		
PMAMW03S-1207	12/19/07	VOCs	Chlorobenzene	9.4	ug/L		
PMAMW03S-1207	12/19/07	PCBs	Monochlorobiphenyl	0.21	ug/L		
PMAMW03S-F-1207	12/19/07	PCBs	Monochlorobiphenyl	0.22	ug/L		

See last page of table for notes.

Table 2
Groundwater Analytical Detections

Sample ID	Sample Date	Chemical Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
PMAMW03M-1207	12/19/07	VOCs	1,2-Dichlorobenzene	100	ug/L		
PMAMW03M-1207	12/19/07	VOCs	1,3-Dichlorobenzene	52	ug/L		
PMAMW03M-1207	12/19/07	VOCs	1,4-Dichlorobenzene	560	ug/L		
PMAMW03M-1207	12/19/07	VOCs	Benzene	1,700	ug/L		
PMAMW03M-1207	12/19/07	VOCs	Chlorobenzene	1,600	ug/L		
PMAMW03M-1207	12/19/07	VOCs	Ethylbenzene	71	ug/L		
PMAMW03M-1207	12/19/07	VOCs	Xylenes, Total	100	ug/L		
PMAMW03M-1207	12/19/07	SVOCs	Naphthalene	15	ug/L		
PMAMW03M-1207	12/19/07	SVOCs	P-Chloroaniline	130	ug/L		
PMAMW03M-1207	12/19/07	PCBs	Monochlorobiphenyl	0.76	ug/L		
PMAMW03M-F-1207	12/19/07	PCBs	Monochlorobiphenyl	0.36	ug/L		
PSMW02-1207	12/20/07	VOCs	Benzene	7,700	ug/L		
PSMW02-1207	12/20/07	VOCs	Chlorobenzene	1,600	ug/L		
PSMW02-1207	12/20/07	VOCs	Xylenes, Total	130	ug/L		
PSMW02-1207	12/20/07	SVOCs	P-Chloroaniline	140	ug/L		
PSMW02-1207	12/20/07	SVOCs	Phenol	94	ug/L		
PSMW02-1207	12/20/07	PCBs	Dichlorobiphenyl	0.11	ug/L		
PSMW02-1207	12/20/07	PCBs	Monochlorobiphenyl	0.12	ug/L		

Notes:

ug/L = micrograms per liter

**Table 3
DNAPL Analytical Detections**

Sample ID	Sample Date	Chemical Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
PMAMW4S-1207-DNAPL	12/20/07	VOCs	Chlorobenzene	720,000	ug/Kg		
PMAMW4S-1207-DNAPL	12/20/07	SVOCs	1,2,4-Trichlorobenzene	130,000,000	ug/Kg	H D	
PMAMW4S-1207-DNAPL	12/20/07	SVOCs	1,2-Dichlorobenzene	1,300,000	ug/Kg	H	
PMAMW4S-1207-DNAPL	12/20/07	SVOCs	1,3-Dichlorobenzene	840,000	ug/Kg	H	
PMAMW4S-1207-DNAPL	12/20/07	SVOCs	1,4-Dichlorobenzene	3,000,000	ug/Kg	H	
PMAMW4S-1207-DNAPL	12/20/07	SVOCs	Pentachlorobenzene	6,500,000	ug/Kg	H	
PMAMW4S-1207-DNAPL	12/20/07	PCBs	Dichlorobiphenyl	2,700,000	ug/Kg	H	
PMAMW4S-1207-DNAPL	12/20/07	PCBs	Heptachlorobiphenyl	32,000,000	ug/Kg	H	
PMAMW4S-1207-DNAPL	12/20/07	PCBs	Hexachlorobiphenyl	39,000,000	ug/Kg	H	
PMAMW4S-1207-DNAPL	12/20/07	PCBs	Octachlorobiphenyl	4,300,000	ug/Kg	H	
PMAMW4S-1207-DNAPL	12/20/07	PCBs	Pentachlorobiphenyl	25,000,000	ug/Kg	H	
PMAMW4S-1207-DNAPL	12/20/07	PCBs	Tetrachlorobiphenyl	36,000,000	ug/Kg	H	
PMAMW4S-1207-DNAPL	12/20/07	PCBs	Trichlorobiphenyl	15,000,000	ug/Kg	H	

Notes:

ug/Kg = micrograms per kilogram

H = Sample was prepped or analyzed beyond the specified holding time

D = Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D

Appendix A
Groundwater Purging and Sampling Forms

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK PMA PROJECT NUMBER: 21561814.00004 FIELD PERSONNEL: M. Corbett, M. Miller
 DATE: 12/18/2007 WEATHER: partly cloudy, 40°
 MONITORING WELL ID: PMA-MW-1S SAMPLE ID: PMAMW01S-1207

INITIAL DATA

Well Diameter: 2 in Water Column Height (do not include LNAPL or DNAPL): 8.26 ft btoc Volume of Flow Through Cell): 500 mL
 Total Well Depth (btoc): 24.93 ft If Depth to Top of Screen is > Depth to Water AND Screen Length is < 4 feet, Minimum Purge Volume =
 Depth to Water (btoc): 16.67 ft Place Pump at: Total Well Depth - 0.5 (Screen Length + DNAPL Column Height) = _____ ft btoc (3 x Flow Through Cell Volume) 1500 mL
 Depth to LNAPL/DNAPL (btoc): — ft If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft, Ambient PID/FID Reading: 0.0 ppm
 Depth to Top of Screen (btoc): 20.18 ft Place Pump at: Total Well Depth - (0.5 X Water Column Height + DNAPL Column Height) = _____ ft btoc Wellbore PID/FID Reading: 0.0 ppm
 Screen Length: 5 ft If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = _____ ft btoc

PURGE DATA

Pump Type: Stainless Steel Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	1256	16.78	colorless, clear	hydrocarbon-like	7.51	15.84	1.240	34.8	-0.42	13.6
500	1301	16.78	"	"	7.21	16.08	1.230	28.6	0.30	13.4
1000	1306	16.82	"	"	6.97	16.92	1.226	21.9	0.61	13.5
1500	1311	16.81	"	"	6.84	17.50	1.223	19.6	0.46	13.2
2000	1316	16.82	"	"	6.81	17.47	1.242	19.6	0.23	14.0
2500	1321	"	"	"	6.78	15.36	1.241	15.9	0.22	14.3
3000	1326	"	"	"	6.70	18.56	1.250	17.7	0.19	13.5
3500	1331	"	"	"	6.70	18.52	1.245	18.0	0.16	17.0
4000	1336	"	"	"	6.67	17.66	1.242	18.1	0.15	20.2
4500	1341	"	"	"	6.68	17.13	1.236	19.3	0.15	20.2
5000	1346	"	"	"	6.70	17.76	1.241	12.8	0.15	19.9
5500	1351	"	"	"	6.66	17.98	1.226	17.6	0.16	20.0

Start Time: 1256 Elapsed Time: 55 min Water Quality Meter ID: YSI 556 and LaMotte 2020
 Stop Time: 1351 Average Purge Rate (mL/min): 100 Date Calibrated: 12/18/2007

SAMPLING DATA

Sample Date: 12/18/07 Sample Time: 1400 Analysis: VOCs, SVOCs, Total PCBs, Dissolved PCBs
 Sample Method: Stainless Steel Monsoon Sample Flow Rate: 100 mL/min Date Calibrated: NA

COMMENTS:

Collected MS/MSD sample. Ferrous Iron (Filtered 0.2 Micron) = not measured

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK PMA PROJECT NUMBER: 21561814.00004 FIELD PERSONNEL: M. Corbett, M. Miller
 DATE: 12/19/2007 WEATHER: sunny, 40°
 MONITORING WELL ID: PMA-MW-2S SAMPLE ID: PMAMW02S-1207

INITIAL DATA

Well Diameter: 2 in Water Column Height (do not include LNAPL or DNAPL): 8.37 ft btoc Volume of Flow Through Cell): 500 mL
 Total Well Depth (btoc): 27.26 ft If Depth to Top of Screen is > Depth to Water AND Screen Length is < 4 feet, Minimum Purge Volume =
 Depth to Water (btoc): 18.89 ft Place Pump at: Total Well Depth - 0.5 (Screen Length + DNAPL Column Height) = — ft btoc (3 x Flow Through Cell Volume) 1500 mL
 Depth to LNAPL/DNAPL (btoc): — ft If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft, Ambient PID/FID Reading: 0.0 ppm
 Depth to Top of Screen (btoc): 22.94 ft Place Pump at: Total Well Depth - (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc Wellbore PID/FID Reading: 0.0 ppm
 Screen Length: 5 ft If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc

PURGE DATA

Pump Type: Stainless Steel Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	1130	19.00	colorless, cloudy	slight hydroc. like	9.11	14.79	0.999	88.0	-1.3	110.7
500	1135	18.94	"	"	8.52	16.88	0.991	78.1	0.15	110.5
1000	1140	18.95	"	"	8.27	17.30	0.985	58.1	0.34	110.4
1500	1145	18.93	"	"	8.22	17.628	0.978	34.4	0.38	110.4
2000	1150	"	colorless, clear	"	7.81	17.96	0.975	32.5	0.31	110.2
2500	1155	"	"	"	7.66	17.90	0.971	25.1	0.24	110.2
3000	1200	"	"	"	7.60	17.81	0.967	26.3	0.23	110.2
3500	1205	"	"	"	7.54	18.16	0.966	25.5	0.21	110.1
4000	1210	"	"	"	7.49	17.89	0.961	23.2	0.19	110.0
4500	1215	"	"	"	7.49	17.52	0.957	24.3	0.19	110.0
5000	1220	"	"	"	7.42	17.55	0.954	19.3	0.17	110.2
5500	1225	"	"	"	7.44	17.60	0.956	21.1	0.18	110.1

Start Time: 1130 Elapsed Time: 55 min Water Quality Meter ID: YSI 556 and LaMotte 2020
 Stop Time: 1229 Average Purge Rate (mL/min): 100 Date Calibrated: 12/19/2007

SAMPLING DATA

Sample Date: 12/19/07 Sample Time: 1230 Analysis: VOCs, SVOCs, Total PCBs, Dissolved PCBs
 Sample Method: Stainless Steel Monsoon Sample Flow Rate: 100 mL/min Date Calibrated: NA

COMMENTS:

Collected an Equipment Blank sample at 1315. Ferrous Iron (Filtered 0.2 Micron) = not measured

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK PMA PROJECT NUMBER: 21561814.00004 FIELD PERSONNEL: M. Corbett, M. Miller
 DATE: 12/19/2007 WEATHER: mostly cloudy, 45°
 MONITORING WELL ID: PMA-MW-3S SAMPLE ID: PMAMW03S-1207

INITIAL DATA

Well Diameter: 2 in Water Column Height (do not include LNAPL or DNAPL): 8.29 ft btoc Volume of Flow Through Cell: 500 mL
 Total Well Depth (btoc): 27.40 ft If Depth to Top of Screen is > Depth to Water AND Screen Length is < 4 feet, Minimum Purge Volume = _____ mL
 Depth to Water (btoc): 19.11 ft Place Pump at: Total Well Depth - 0.5 (Screen Length + DNAPL Column Height) = _____ ft btoc (3 x Flow Through Cell Volume) 1500 mL
 Depth to LNAPL/DNAPL (btoc): — ft If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft, Ambient PID/FID Reading: 0.0 ppm
 Depth to Top of Screen (btoc): 22.71 ft Place Pump at: Total Well Depth - (0.5 X Water Column Height + DNAPL Column Height) = _____ ft btoc Wellbore PID/FID Reading: 0.0 ppm
 Screen Length: 5 ft If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = _____ ft btoc

PURGE DATA

Pump Type: Stainless Steel Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	1500	19.17	colorless, clear	none	9.87	17.04	1.597	45.4	-0.44	107.9
500	1505	"	"	none	9.21	16.89	1.599	27.5	0.17	107.9
1000	1510	"	"	"	8.66	17.03	1.591	21.8	0.27	107.7
1500	1515	"	"	"	8.52	17.56	1.574	20.2	0.30	107.7
2000	1520	"	"	"	8.27	17.49	1.572	21.7	0.29	107.5
2500	1525	"	"	"	7.98	18.09	1.546	20.9	0.27	107.1
3000	1530	"	"	"	7.85	17.65	1.523	18.4	0.22	107.0
3500	1535	"	"	"	7.71	17.34	1.508	20.1	0.21	107.0
4000	1540	"	"	"	7.68	17.70	1.501	16.5	0.21	107.3
4500	1545	"	"	"	7.65	17.41	1.471	17.3	0.18	106.8
5000	1550	"	"	"	7.65	17.24	1.486	17.1	0.17	106.6

Start Time: 1500 Elapsed Time: 50 min Water Quality Meter ID: YSI 556 and LaMotte 2020
 Stop Time: 1550 Average Purge Rate (mL/min): 100 Date Calibrated: 12/19/2007

SAMPLING DATA

Sample Date: 12/19/07 Sample Time: 1555 Analysis: VOCs, SVOCs, Total PCBs, Dissolved PCBs
 Sample Method: Stainless Steel Monsoon Sample Flow Rate: 100 mL/min Date Calibrated: NA

COMMENTS:

Ferrous Iron (Filtered 0.2 Micron) = not measured

Appendix B
Chains-of-Custody

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**SEVERN
TRENT**

STL

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE W6K PCB Mobility	PROJECT NO. 21561814.00004	PROJECT LOCATION (STATE) IL	MATRIX TYPE	REQUIRED ANALYSIS				PAGE 1	OF 1		
STL (LAB) PROJECT MANAGER Lidya Galizia	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT,...)	HCl	VOC	8260B	SVOC	8270C	STANDARD REPORT DELIVERY <input checked="" type="radio"/>	DATE DUE _____	
CLIENT (SITE) PM Thomas Adams	CLIENT PHONE 314-429-0100	CLIENT FAX 314-429-0462		none	none	PCB	680	PCB (dissolved)	680	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
CLIENT NAME URS Corporation	CLIENT E-MAIL thomas_adams@urscorp.com			none	none	none	none	none	none		
CLIENT ADDRESS 1001 Highlands Plaza Dr. W. Ste. 300 St. Louis, MO 63110				none	none	none	none	none	none		
COMPANY CONTRACTING THIS WORK (if applicable) Solutia				DERIVATIVE						NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	NUMBER OF CONTAINERS SUBMITTED				REMARKS
DATE	TIME											
12/19/07	0700	TB02-1207	X				3					
	0950	PMAMW02M-1207	X				3	2	2			
		PMAMW02M-F-1207	X							2		
		PMAMW02M-1207-AD	X				3	2	2			
		PMAMW02M-F-1207-AD	X							2		
	1230	PMAMW02S-1207	X				3	2	2			
		PMAMW02S-F-1207	X							2		
	1315	PMAMW02S-1207-EB	X				3	2	2			
		PMAMW02S-F-1207-EB	X							2		
	1425	PMAMW03M-1207	X				3	2	2			
		PMAMW03M-F-1207	X							2		
		PMAMW03S-1207	X				3	2	2			
		PMAMW03S-F-1207	X							2		

TEMP. 4.1/5.7
4.4/4.0
5.8/4.6

Effervescence in VOA vials.

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 12/19/07	TIME 1700	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>		DATE 122007	TIME 1430	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	STL SAVANNAH LOG NO. 680-33004	LABORATORY REMARKS
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

**SEVERN
TRENT**

STL

PROJECT REFERENCE W/GK PCB Mobility	PROJECT NO. 21561814.00004	PROJECT LOCATION (STATE) IL	MATRIX TYPE	REQUIRED ANALYSIS						PAGE 1	OF 1
STL (LAB) PROJECT MANAGER Lidya Gulizia	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	HCl VOC 8260B	SVOC 8270C	PCB 680	PCB (dissolved) 680	Metals 6010	STANDARD REPORT DELIVERY <input checked="" type="radio"/>		
CLIENT (SITE) PM Thomas Adams	CLIENT PHONE 314-429-0100	CLIENT FAX 314-429-0162		none	none	none	none	none	DATE DUE _____		
CLIENT NAME VRS Corporation	CLIENT E-MAIL thomas_adams@vrscorp.com			none	none	none	none	none	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>		
CLIENT ADDRESS 1001 Highlands Plaza Dr. W. Ste 300 St. Louis, MO 63110	COMPANY CONTRACTING THIS WORK (if applicable) Solutiq			none	none	none	none	none	DATE DUE _____		
				NUMBER OF CONTAINERS SUBMITTED						NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED						REMARKS
DATE	TIME													
12/20/07	0700	TB03-1207	X					3						
	1010	PSMW02-1207	X					3	2	2	1			
	↓	PSMW02-F-1207	X								2			
↓	1020	PMAMW45-1207-DNAPL					X	X	X	X				DNAPL (2-40mL vials)
<i>John Albit</i>														

RELINQUISHED BY: (SIGNATURE) <i>John Albit</i>	DATE 12/20/07	TIME 1400	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	STL SAVANNAH LOG NO. 680-330331 (KPS 038) PS 680-33031-2 (KPM014) PMA	LABORATORY REMARKS
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Appendix C
Quality Assurance Report

Solutia Inc.
W.G. Krummrich Facility
Sauget, Illinois

PCB Mobility and Migration
Investigation
4th Quarter 2007 Data Report

Prepared for

Solutia Inc.
575 Maryville Centre Drive
St. Louis, MO 63141

March 2008



URS Corporation
1001 Highland Plaza Drive West, Suite 300
St. Louis, MO 63100
(314) 429-0100
Project # 21561814.00004

1.0	INTRODUCTION	1
2.0	RECEIPT CONDITION AND SAMPLE HOLDING TIMES.....	3
3.0	TRIP BLANKS, LABORATORY METHOD AND EQUIPMENT BLANK SAMPLES.....	3
4.0	SURROGATE SPIKE RECOVERIES.....	4
5.0	LABORATORY CONTROL SAMPLES RECOVERIES	4
6.0	MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) SAMPLES.....	5
7.0	FIELD DUPLICATE RESULTS	5
8.0	INTERNAL STANDARD RESPONSES	5
9.0	RESULTS REPORTED FROM DILUTIONS.....	6

1.0 INTRODUCTION

This Quality Assurance Report presents the findings of a review of analytical data for groundwater samples collected in December 2007 at the Solutia W.G. Krummrich plant as part of the 4th Quarter 2007 PCB Mobility and Migration Investigation. The samples were collected by URS Corporation personnel and analyzed by TestAmerica Laboratories, Inc., (TestAmerica) located in Savannah, Georgia using USEPA methodologies. Samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and polychlorinated biphenyls (PCBs).

One hundred percent of the data were subjected to a data quality review (Level III validation). The Level III validations were performed in order to confirm that the analytical data provided by TestAmerica were acceptable in quality for their intended use, with the exception of rejected “R” flagged data.

A total of 11 samples (seven investigative groundwater samples, one field duplicate, one matrix spike and matrix spike duplicate (MS/MSD) pair, and one equipment blank) were analyzed by TestAmerica. These samples were analyzed as Sample Delivery Groups (SDGs) KPM012, KPM013 and KPM014 utilizing the following USEPA Methods:

- Method 8260B for VOCs (including dichlorobenzenes due to potential volatilization losses associated with Method 8270C).
- Method 8270C for SVOCs
- Method 680 for PCBs

In addition, two trip blanks were included in the coolers that contained samples for VOC analysis and were analyzed for VOCs by USEPA SW-846 Method 8260B. Samples were reviewed following procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999, and the PCB Mobility and Migration Investigation, (October 2005).

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.
*	LCS, LCSD, MS, MSD, MD or surrogate exceeds the control limits.
E	Result exceeded the calibration range, secondary dilution required.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also 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.
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
H	Sample was prepped or analyzed beyond the specified holding time.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

TABLE 2 URS Data Qualifiers

URS Qualifier	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 be accepted for their intended use, with the exception of rejected (**R**) data. 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 to be the percentage of analytical results which are judged to be valid, including estimated detect (**J**) or estimated non-detect (**UJ**) values was 99.6 percent, which meets the completeness goal of 95 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 (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) sample recoveries and Relative Percent Difference (RPD) values
- Field duplicate results
- Results reported from dilutions
- Internal standard responses

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.

Extractions and/or analyses were completed within the recommended holding time requirements, with the exception of the following SVOC sample PMAMW03S-1207 (5 days) was extracted outside holding time criteria (7 days) from SDG KPM012. In addition, samples PMAMW4S-1207-DNAPL and PMAMW4S-1207-DNAPLDL were extracted for SVOC analysis approximately 3 hours outside holding time criteria (14 days) from SDG KPM014. Since the sample contained a dense nonaqueous phase liquid (DNAPL), extraction outside of holding time had little effect on the data. No qualification of data was required. Qualifications due to holding time criteria are included in the table below.

Field ID	Parameter	Analyte	Qualification
PMAMW03S-1207	SVOCs	All SVOCs	UJ

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. One trip blank was submitted with each cooler shipped containing samples for VOC analyses for a total of two trip blank samples. All analytes were not detected in the trip blanks.

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. No analytes were detected in any of the method blanks.

Equipment blank samples are used to assess the effectiveness of equipment decontamination procedures. All equipment blank samples were nondetect with the exception of those in data reviews discussed further in **Appendix D**. Analytical data that required qualification based on equipment blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

SDG	Field ID	Parameter	Analyte	New RL	Qualification
KPM012	PMAMW02S-1207	VOCs	1,2-Dichlorobenzene	6.4	U
KPM012	PMAMW03S-1207	VOCs	1,2-Dichlorobenzene	4.0	U

4.0 SURROGATE SPIKE RECOVERIES

Surrogate compounds are used to evaluate overall laboratory performance for sample preparation efficiency on a per sample basis. All samples analyzed for VOCs, SVOCs, and PCBs were spiked with surrogate compounds during sample preparation. USEPA National Functional Guidelines for Organic Data Review state how data is qualified, if surrogate spike recoveries do not meet evaluation criteria. Surrogate recoveries were within evaluation criteria with the exception of those surrogates in data reviews discussed further in **Appendix D**. No qualification of data was required based on surrogate recoveries.

5.0 LABORATORY CONTROL SAMPLE RECOVERIES

Laboratory control samples (LCS) are analyzed with each analytical batch to assess the accuracy of the analytical process. All LCS recoveries were within evaluation criteria with the exception of the LCSs in the data reviews discussed further in **Appendix D**.

Analytical data that required qualification based on LCS recoveries are included in the table below. Data that was reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Also if the LCS was related to QA/QC samples such as trip blanks and MS/MSDs, no qualifiers were assigned.

SDG	Field ID	Parameter	Analyte	Qualification
KPM012	PMAMW02M-1207	SVOCs	3,3'-Dimethylbenzidine	UJ
KPM012	PMAMW02M-1207	SVOCs	p-Phenyenediamine	R
KPM012	PMAMW02M-1207-AD	SVOCs	3,3'-Dimethylbenzidine	UJ
KPM012	PMAMW02M-1207-AD	SVOCs	p-Phenyenediamine	R
KPM012	PMAMW02S-1207	SVOCs	3,3'-Dimethylbenzidine	UJ
KPM012	PMAMW02S-1207	SVOCs	p-Phenyenediamine	R
KPM012	PMAMW03M-1207	SVOCs	3,3'-Dimethylbenzidine	UJ
KPM012	PMAMW03M-1207	SVOCs	p-Phenyenediamine	R
KPM012	PMAMW03S-1207	SVOCs	3,3'-Dichlorobenzidine	R

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 one MS/MSD sample set for seven investigative samples, meeting the work plan frequency requirement.

No qualifications were made to the data if the MS/MSD percent recoveries were zero due to dilutions or if the percent RPD was the only factor outside of criteria. Also, USEPA National Functional Guidelines for Organic Data Review (October 1999) states that organic data should not be qualified based on MS/MSD criteria alone. Therefore, if recoveries were outside evaluation criteria due to matrix interference or abundance of analytes, no qualifiers were assigned unless these analytes had other quality control criteria outside evaluation criteria.

Sample PMAMW01S-0907 was spiked and analyzed for VOCs, SVOCs, PCBs and filtered PCBs. MS/MSD recoveries and RPDs that were outside evaluation criteria are discussed further in the data reviews in **Appendix D**. No qualification of data was required due to MS/MSD recoveries.

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. 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 2.5 times the quantitation limit. Field duplicate results that do not meet these criteria may indicate unsatisfactory precision of the results.

One field duplicate sample was collected for the seven investigative samples. This satisfies the requirement in the work plan (one per 10 investigative samples or 10 percent). All reported results for the field duplicate samples were in agreement with the above acceptance criteria.

8.0 INTERNAL STANDARD RESPONSES

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during each analytical run. IS areas must be within -50 percent to +100 percent for VOCs and SVOCs. For the PCBs (Method 680), the IS areas must be within +/- 30 percent of the preceding calibration verification (CV) IS value. Also, the IS retention times must be within 30 seconds of the preceding IS CV retention time. If the IS area count is outside criteria, Method 680 indicates the mean IS area obtained during the initial calibration (ICAL) (+/- 50 percent) should be used.

The internal standards area responses for the VOCs, SVOCs and PCBs were verified for the data reviews. IS responses met the criteria as described above, in samples with the exception of the IS responses in the data reviews discussed further in **Appendix D**. Qualifications based on IS responses were not required.

9.0 RESULTS REPORTED FROM DILUTIONS

Several samples were diluted because of high levels of target analytes in the native sample. The undiluted results were not reported by the laboratory, only the diluted results for these samples. Therefore, several analytes were reported as nondetect in diluted samples and undiluted samples results were not reported.

Appendix D
Groundwater Analytical Results

SDG KPM012

Results of Samples from Wells:

PMAMW02S

PMAMW02M

PMAMW03S

PMAMW03M

Solutia Krummrich Data Review

Laboratory SDG: KPM012

Reviewer: Tony Sedlacek

Date Reviewed: 2/11/2008

Guidance: USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA 1999).

Applicable Work Plan: PCB Mobility and Migration Investigation (URS 2005)

Sample Identification #	Sample Identification #
TB02-1207	PMAMW02M-1207
PMAMW02M-F-1207	PMAMW02M-1207-AD
PMAMW02M-F-1207-AD	PMAMW02S-1207
PMAMW02S-F-1207	PMAMW02S-1207-EB
PMAMW02S-F-1207-EB	PMAMW03M-1207
PMAMW03M-F-1207	PMAMW03S-1207
PMAMW03S-F-1207	

1.0 Data Package Completeness

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

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 sample PMAMW03S-1207 was extracted outside holding time criteria. SVOC LCS recoveries were outside evaluation criteria and VOCs were detected in the equipment blank. Although not indicated in the laboratory case narrative, some VOC samples were diluted due to high levels of target analytes. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

No, sample PMAMW03S-1207 was extracted for SVOCs 5 days outside holding time criteria (7 days).

Field ID	Parameter	Analyte	Qualification
PMAMW03S-1207	SVOCs	All SVOCs	UJ

4.0 Blank Contamination

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

Yes

Blank ID	Parameter	Analyte	Concentration	Units
PMAMW02S-1207-EB	VOCs	Benzene	1.7	µg/L
PMAMW02S-1207-EB	VOCs	Chlorobenzene	1.1	µg/L
PMAMW02S-1207-EB	VOCs	1,2-Dichlorobenzene	1.4	µg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
PMAMW02S-1207	VOCs	1,2-Dichlorobenzene	6.4	U
PMAMW03S-1207	VOCs	1,2-Dichlorobenzene	4.0	U

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	RPD	LCS Criteria
680-94572/18-A	SVOCs	3,3'-Dimethylbenzidine	45	N/A	70-130
680-94572/18-A	SVOCs	p-Phenyenediamine	0	N/A	70-130
680-94891/7-A	SVOCs	3,3'-Dichlorobenzidine	3	N/A	10-113

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
PMAMW02M-1207	SVOCs	3,3'-Dimethylbenzidine	UJ
PMAMW02M-1207	SVOCs	p-Phenyenediamine	R
PMAMW02M-1207-AD	SVOCs	3,3'-Dimethylbenzidine	UJ
PMAMW02M-1207-AD	SVOCs	p-Phenyenediamine	R
PMAMW02S-1207	SVOCs	3,3'-Dimethylbenzidine	UJ
PMAMW02S-1207	SVOCs	p-Phenyenediamine	R
PMAMW03M-1207	SVOCs	3,3'-Dimethylbenzidine	UJ
PMAMW03M-1207	SVOCs	p-Phenyenediamine	R
PMAMW03S-1207	SVOCs	3,3'-Dichlorobenzidine	R

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

Field ID	Parameter	Surrogate	Recovery	Criteria
N/A				

Analytical data that required qualification based on surrogate data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

No

Were MS/MSD recoveries within evaluation criteria?

N/A

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
N/A					

Analytical data that required qualification based on MS/MSD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
N/A				

Analytical data that required qualification based on IS data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
PMAMW02M-1207	PMAMW02M-1207-AD
PMAMW02M-F-1207	PMAMW02M-F-1207-AD

Were field duplicates within evaluation criteria?

Yes

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

11.0 Sample Dilutions

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

No

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run *was not* reported:

Field ID	Parameter	Dilution Factor
PMAMW02M-1207	VOCs	100
PMAMW02M-1207-AD	VOCs	100
PMAMW03M-1207	VOCs	20

12.0 Additional Qualifications

Were additional qualifications applied?

No

ANALYTICAL REPORT

Job Number: 680-33004-1

SDG Number: KPM012

Job Description: WGK PCB Mobility 4Q07 DEC 2007

For:

Solutia Inc.

575 Maryville Centre Dr.

Saint Louis, MO 63141

Attention: Mr. Bruce Yare



Lidya Gulizia

Project Manager I

lidya.gulizia@testamericainc.com

01/29/2008

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report.

Job Narrative
680-J33004-1 / SDG No. KPM012

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The equipment blank associated with these samples contained a detect for the following analyte: Benzene, Chlorobenzene, and 1,2 Dichlorobenzene. The sample was reanalyzed and the confirmation run was reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 3520C: The following sample(s) was prepared outside of preparation holding time: PMAMW03S-1207 (680-33004-12).

Method(s) 8270C: The laboratory control standard (LCS) for batch 94891 exceeded control limits for the following analyte(s): 3'3-Dichlorobenzidine. 3'3-Dichlorobenzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C: The laboratory control standard (LCS) for batch 94572 exceeded control limits for the following analyte(s): p-phenylenediamine. P-phenylenediamine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 94572 had one analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

Comments

No additional comments.

METHOD SUMMARY

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds by GC/MS	TAL SAV	SW846 8260B	
Purge-and-Trap	TAL SAV		SW846 5030B
Polychlorinated Biphenyls by GCMS	TAL SAV	EPA 680	
Polychlorinated Biphenyls by GCMS Preparation for	TAL SAV		EPA 680
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL SAV	SW846 8270C	
Continuous Liquid-Liquid Extraction	TAL SAV		SW846 3520C

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Method	Analyst	Analyst ID
SW846 8260B	Smith, Carion	CS
EPA 680	Johnson, Brad	BJ
SW846 8270C	Johnson, Brad	BJ

SAMPLE SUMMARY

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-33004-1TB	TB02-1207	Water	12/19/2007 0700	12/20/2007 1430
680-33004-2	PMAMW02M-1207	Water	12/19/2007 0950	12/20/2007 1430
680-33004-3	PMAMW02M-F-1207	Water	12/19/2007 0950	12/20/2007 1430
680-33004-4FD	PMAMW02M-1207-AD	Water	12/19/2007 0950	12/20/2007 1430
680-33004-5FD	PMAMW02M-F-1207-AD	Water	12/19/2007 0950	12/20/2007 1430
680-33004-6	PMAMW02S-1207	Water	12/19/2007 1230	12/20/2007 1430
680-33004-7	PMAMW02S-F-1207	Water	12/19/2007 1230	12/20/2007 1430
680-33004-8EB	PMAMW02S-1207-EB	Water	12/19/2007 1315	12/20/2007 1430
680-33004-9EB	PMAMW02S-F-1207-EB	Water	12/19/2007 1315	12/20/2007 1430
680-33004-10	PMAMW03M-1207	Water	12/19/2007 1425	12/20/2007 1430
680-33004-11	PMAMW03M-F-1207	Water	12/19/2007 1425	12/20/2007 1430
680-33004-12	PMAMW03S-1207	Water	12/19/2007 1555	12/20/2007 1430
680-33004-13	PMAMW03S-F-1207	Water	12/19/2007 1555	12/20/2007 1430

SAMPLE RESULTS

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: TB02-1207

Lab Sample ID: 680-33004-1TB

Date Sampled: 12/19/2007 0700

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-94922	Instrument ID: GC/MS Volatiles - B
Preparation:	5030B		Lab File ID: b0255.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/31/2007 1319		Final Weight/Volume: 5 mL
Date Prepared:	12/31/2007 1319		

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	1.0	U	1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.0	U	1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutyl alcohol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	10	U	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1
Sdg Number: KPM012

Client Sample ID: TB02-1207

Lab Sample ID: 680-33004-1TB
Client Matrix: Water

Date Sampled: 12/19/2007 0700
Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-94922	Instrument ID:	GC/MS Volatiles - B
Preparation:	5030B		Lab File ID:	b0255.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	12/31/2007 1319		Final Weight/Volume:	5 mL
Date Prepared:	12/31/2007 1319			

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	80	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	84	75 - 120

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-1207

Lab Sample ID: 680-33004-2

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-94922	Instrument ID: GC/MS Volatiles - B
Preparation:	5030B		Lab File ID: b0266.d
Dilution:	100		Initial Weight/Volume: 5 mL
Date Analyzed:	12/31/2007 1819		Final Weight/Volume: 5 mL
Date Prepared:	12/31/2007 1819		

Analyte	Result (ug/L)	Qualifier	RL
Acetone	2500	U	2500
Acetonitrile	4000	U	4000
Acrolein	2000	U	2000
Acrylonitrile	2000	U	2000
Benzene	5600		100
Bromoform	100	U	100
Bromomethane	100	U	100
Carbon disulfide	200	U	200
Carbon tetrachloride	100	U	100
Chlorobenzene	8200		100
2-Chloro-1,3-butadiene	100	U	100
Chlorodibromomethane	100	U	100
Chloroethane	100	U	100
Chloroform	100	U	100
Chloromethane	100	U	100
3-Chloro-1-propene	100	U	100
cis-1,3-Dichloropropene	100	U	100
1,2-Dibromo-3-Chloropropane	100	U	100
Dibromomethane	100	U	100
1,2-Dichlorobenzene	100	U	100
1,3-Dichlorobenzene	100	U	100
1,4-Dichlorobenzene	100	U	100
Dichlorobromomethane	100	U	100
Dichlorodifluoromethane	100	U	100
1,1-Dichloroethane	100	U	100
1,2-Dichloroethane	100	U	100
1,1-Dichloroethene	100	U	100
1,2-Dichloropropane	100	U	100
Ethylbenzene	100	U	100
Ethylene Dibromide	100	U	100
Ethyl methacrylate	100	U	100
2-Hexanone	1000	U	1000
Iodomethane	500	U	500
Isobutyl alcohol	4000	U	4000
Methacrylonitrile	2000	U	2000
Methylene Chloride	500	U	500
2-Butanone (MEK)	1000	U	1000
4-Methyl-2-pentanone (MIBK)	1000	U	1000
Methyl methacrylate	100	U	100
Pentachloroethane	500	U	500
Propionitrile	2000	U	2000
Styrene	100	U	100
1,1,1,2-Tetrachloroethane	100	U	100
1,1,2,2-Tetrachloroethane	100	U	100

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-1207

Lab Sample ID: 680-33004-2

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-94922	Instrument ID: GC/MS Volatiles - B
Preparation:	5030B		Lab File ID: b0266.d
Dilution:	100		Initial Weight/Volume: 5 mL
Date Analyzed:	12/31/2007 1819		Final Weight/Volume: 5 mL
Date Prepared:	12/31/2007 1819		

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	100	U	100
Toluene	100	U	100
trans-1,4-Dichloro-2-butene	200	U	200
trans-1,2-Dichloroethene	100	U	100
trans-1,3-Dichloropropene	100	U	100
1,1,1-Trichloroethane	100	U	100
1,1,2-Trichloroethane	100	U	100
Trichloroethene	100	U	100
Trichlorofluoromethane	100	U	100
1,2,3-Trichloropropane	100	U	100
Vinyl acetate	200	U	200
Vinyl chloride	100	U	100
Xylenes, Total	200	U	200

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	83	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	86	75 - 120

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-1207-AD

Lab Sample ID: 680-33004-4FD

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 680-95032 Instrument ID: GC/MS Volatiles - B
 Preparation: 5030B Lab File ID: b0003.d
 Dilution: 100 Initial Weight/Volume: 5 mL
 Date Analyzed: 01/02/2008 1234 Final Weight/Volume: 5 mL
 Date Prepared: 01/02/2008 1234

Analyte	Result (ug/L)	Qualifier	RL
Acetone	2500	U	2500
Acetonitrile	4000	U	4000
Acrolein	2000	U	2000
Acrylonitrile	2000	U	2000
Benzene	5700		100
Bromoform	100	U	100
Bromomethane	100	U	100
Carbon disulfide	200	U	200
Carbon tetrachloride	100	U	100
Chlorobenzene	8000		100
2-Chloro-1,3-butadiene	100	U	100
Chlorodibromomethane	100	U	100
Chloroethane	100	U	100
Chloroform	100	U	100
Chloromethane	100	U	100
3-Chloro-1-propene	100	U	100
cis-1,3-Dichloropropene	100	U	100
1,2-Dibromo-3-Chloropropane	100	U	100
Dibromomethane	100	U	100
1,2-Dichlorobenzene	100	U	100
1,3-Dichlorobenzene	100	U	100
1,4-Dichlorobenzene	100	U	100
Dichlorobromomethane	100	U	100
Dichlorodifluoromethane	100	U	100
1,1-Dichloroethane	100	U	100
1,2-Dichloroethane	100	U	100
1,1-Dichloroethene	100	U	100
1,2-Dichloropropane	100	U	100
Ethylbenzene	100	U	100
Ethylene Dibromide	100	U	100
Ethyl methacrylate	100	U	100
2-Hexanone	1000	U	1000
Iodomethane	500	U	500
Isobutyl alcohol	4000	U	4000
Methacrylonitrile	2000	U	2000
Methylene Chloride	500	U	500
2-Butanone (MEK)	1000	U	1000
4-Methyl-2-pentanone (MIBK)	1000	U	1000
Methyl methacrylate	100	U	100
Pentachloroethane	500	U	500
Propionitrile	2000	U	2000
Styrene	100	U	100
1,1,1,2-Tetrachloroethane	100	U	100
1,1,2,2-Tetrachloroethane	100	U	100

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-1207-AD

Lab Sample ID: 680-33004-4FD

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-95032	Instrument ID:	GC/MS Volatiles - B
Preparation:	5030B		Lab File ID:	b0003.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	01/02/2008 1234		Final Weight/Volume:	5 mL
Date Prepared:	01/02/2008 1234			

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	100	U	100
Toluene	100	U	100
trans-1,4-Dichloro-2-butene	200	U	200
trans-1,2-Dichloroethene	100	U	100
trans-1,3-Dichloropropene	100	U	100
1,1,1-Trichloroethane	100	U	100
1,1,2-Trichloroethane	100	U	100
Trichloroethene	100	U	100
Trichlorofluoromethane	100	U	100
1,2,3-Trichloropropane	100	U	100
Vinyl acetate	200	U	200
Vinyl chloride	100	U	100
Xylenes, Total	200	U	200

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	84	75 - 120
Dibromofluoromethane	95	75 - 121
Toluene-d8 (Surr)	87	75 - 120

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02S-1207

Lab Sample ID: 680-33004-6

Date Sampled: 12/19/2007 1230

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-94922	Instrument ID: GC/MS Volatiles - B
Preparation:	5030B		Lab File ID: b0264.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/31/2007 1725		Final Weight/Volume: 5 mL
Date Prepared:	12/31/2007 1725		

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	110		1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	29		1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	6.4		1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	5.1		1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutyl alcohol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	10	U	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1
Sdg Number: KPM012

Client Sample ID: PMAMW02S-1207

Lab Sample ID: 680-33004-6
Client Matrix: Water

Date Sampled: 12/19/2007 1230
Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-94922	Instrument ID:	GC/MS Volatiles - B
Preparation:	5030B		Lab File ID:	b0264.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	12/31/2007 1725		Final Weight/Volume:	5 mL
Date Prepared:	12/31/2007 1725			

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	85	75 - 120
Dibromofluoromethane	100	75 - 121
Toluene-d8 (Surr)	85	75 - 120

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02S-1207-EB

Lab Sample ID: 680-33004-8EB

Date Sampled: 12/19/2007 1315

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-95032	Instrument ID: GC/MS Volatiles - B
Preparation:	5030B		Lab File ID: b0001.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	01/02/2008 1139		Final Weight/Volume: 5 mL
Date Prepared:	01/02/2008 1139		

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	1.7		1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.1		1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.4		1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutyl alcohol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	10	U	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02S-1207-EB

Lab Sample ID: 680-33004-8EB

Date Sampled: 12/19/2007 1315

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-95032	Instrument ID: GC/MS Volatiles - B
Preparation:	5030B		Lab File ID: b0001.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	01/02/2008 1139		Final Weight/Volume: 5 mL
Date Prepared:	01/02/2008 1139		

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	83	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	85	75 - 120

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW03M-1207

Lab Sample ID: 680-33004-10

Date Sampled: 12/19/2007 1425

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-95032	Instrument ID: GC/MS Volatiles - B
Preparation:	5030B		Lab File ID: b0017.d
Dilution:	20		Initial Weight/Volume: 5 mL
Date Analyzed:	01/02/2008 1854		Final Weight/Volume: 5 mL
Date Prepared:	01/02/2008 1854		

Analyte	Result (ug/L)	Qualifier	RL
Acetone	500	U	500
Acetonitrile	800	U	800
Acrolein	400	U	400
Acrylonitrile	400	U	400
Benzene	1700		20
Bromoform	20	U	20
Bromomethane	20	U	20
Carbon disulfide	40	U	40
Carbon tetrachloride	20	U	20
Chlorobenzene	1600		20
2-Chloro-1,3-butadiene	20	U	20
Chlorodibromomethane	20	U	20
Chloroethane	20	U	20
Chloroform	20	U	20
Chloromethane	20	U	20
3-Chloro-1-propene	20	U	20
cis-1,3-Dichloropropene	20	U	20
1,2-Dibromo-3-Chloropropane	20	U	20
Dibromomethane	20	U	20
1,2-Dichlorobenzene	100		20
1,3-Dichlorobenzene	52		20
1,4-Dichlorobenzene	560		20
Dichlorobromomethane	20	U	20
Dichlorodifluoromethane	20	U	20
1,1-Dichloroethane	20	U	20
1,2-Dichloroethane	20	U	20
1,1-Dichloroethene	20	U	20
1,2-Dichloropropane	20	U	20
Ethylbenzene	71		20
Ethylene Dibromide	20	U	20
Ethyl methacrylate	20	U	20
2-Hexanone	200	U	200
Iodomethane	100	U	100
Isobutyl alcohol	800	U	800
Methacrylonitrile	400	U	400
Methylene Chloride	100	U	100
2-Butanone (MEK)	200	U	200
4-Methyl-2-pentanone (MIBK)	200	U	200
Methyl methacrylate	20	U	20
Pentachloroethane	100	U	100
Propionitrile	400	U	400
Styrene	20	U	20
1,1,1,2-Tetrachloroethane	20	U	20
1,1,2,2-Tetrachloroethane	20	U	20

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW03M-1207

Lab Sample ID: 680-33004-10

Date Sampled: 12/19/2007 1425

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-95032

Instrument ID: GC/MS Volatiles - B

Preparation: 5030B

Lab File ID: b0017.d

Dilution: 20

Initial Weight/Volume: 5 mL

Date Analyzed: 01/02/2008 1854

Final Weight/Volume: 5 mL

Date Prepared: 01/02/2008 1854

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	20	U	20
Toluene	20	U	20
trans-1,4-Dichloro-2-butene	40	U	40
trans-1,2-Dichloroethene	20	U	20
trans-1,3-Dichloropropene	20	U	20
1,1,1-Trichloroethane	20	U	20
1,1,2-Trichloroethane	20	U	20
Trichloroethene	20	U	20
Trichlorofluoromethane	20	U	20
1,2,3-Trichloropropane	20	U	20
Vinyl acetate	40	U	40
Vinyl chloride	20	U	20
Xylenes, Total	100		40

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	84	75 - 120
Dibromofluoromethane	93	75 - 121
Toluene-d8 (Surr)	88	75 - 120

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW03S-1207

Lab Sample ID: 680-33004-12

Date Sampled: 12/19/2007 1555

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-94922	Instrument ID: GC/MS Volatiles - B
Preparation:	5030B		Lab File ID: b0265.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/31/2007 1752		Final Weight/Volume: 5 mL
Date Prepared:	12/31/2007 1752		

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	45		1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	9.4		1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	4.0		1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	3.8		1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutyl alcohol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	10	U	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1
Sdg Number: KPM012

Client Sample ID: PMAMW03S-1207

Lab Sample ID: 680-33004-12
Client Matrix: Water

Date Sampled: 12/19/2007 1555
Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-94922	Instrument ID:	GC/MS Volatiles - B
Preparation:	5030B		Lab File ID:	b0265.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	12/31/2007 1752		Final Weight/Volume:	5 mL
Date Prepared:	12/31/2007 1752			

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	83	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	85	75 - 120

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1
Sdg Number: KPM012

Client Sample ID: PMAMW02M-1207

Lab Sample ID: 680-33004-2
Client Matrix: Water

Date Sampled: 12/19/2007 0950
Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method: 680	Analysis Batch: 680-96778	Instrument ID: No Equipment Assigned to
Preparation: 680	Prep Batch: 680-94579	Lab File ID: N/A
Dilution: 1.0		Initial Weight/Volume: 1040 mL
Date Analyzed: 01/24/2008 1338		Final Weight/Volume: 1 mL
Date Prepared: 12/26/2007 1445		Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	2.6		0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	76		25 - 113

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-F-1207

Lab Sample ID: 680-33004-3

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method: 680

Analysis Batch: 680-96778

Instrument ID: No Equipment Assigned to

Preparation: 680

Prep Batch: 680-94579

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1030 mL

Date Analyzed: 01/24/2008 1425

Final Weight/Volume: 1 mL

Date Prepared: 12/26/2007 1445

Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	1.9		0.097
Dichlorobiphenyl	0.097	U	0.097
Trichlorobiphenyl	0.097	U	0.097
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.49	U	0.49
DCB Decachlorobiphenyl	0.49	U	0.49
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	74		25 - 113

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-1207-AD

Lab Sample ID: 680-33004-4FD

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method:	680	Analysis Batch: 680-96778	Instrument ID:	No Equipment Assigned to
Preparation:	680	Prep Batch: 680-94579	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	1040 mL
Date Analyzed:	01/24/2008 1511		Final Weight/Volume:	1 mL
Date Prepared:	12/26/2007 1445		Injection Volume:	

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	3.1		0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	75		25 - 113

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-F-1207-AD

Lab Sample ID: 680-33004-5FD

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method: 680

Analysis Batch: 680-96778

Instrument ID: No Equipment Assigned to

Preparation: 680

Prep Batch: 680-94579

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1040 mL

Date Analyzed: 01/24/2008 1556

Final Weight/Volume: 1 mL

Date Prepared: 12/26/2007 1445

Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	1.6		0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	77		25 - 113

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1
Sdg Number: KPM012

Client Sample ID: PMAMW02S-1207

Lab Sample ID: 680-33004-6
Client Matrix: Water

Date Sampled: 12/19/2007 1230
Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method:	680	Analysis Batch: 680-96778	Instrument ID:	No Equipment Assigned to
Preparation:	680	Prep Batch: 680-94579	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	1030 mL
Date Analyzed:	01/24/2008 1642		Final Weight/Volume:	1 mL
Date Prepared:	12/26/2007 1445		Injection Volume:	

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.097	U	0.097
Dichlorobiphenyl	0.097	U	0.097
Trichlorobiphenyl	0.097	U	0.097
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.49	U	0.49
DCB Decachlorobiphenyl	0.49	U	0.49
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	71		25 - 113

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02S-F-1207

Lab Sample ID: 680-33004-7

Date Sampled: 12/19/2007 1230

Client Matrix: Water

Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method:	680	Analysis Batch: 680-96775	Instrument ID: No Equipment Assigned to
Preparation:	680	Prep Batch: 680-94579	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1040 mL
Date Analyzed:	01/24/2008 2251		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1445		Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.096	U	0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	76		25 - 113

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02S-1207-EB

Lab Sample ID: 680-33004-8EB

Date Sampled: 12/19/2007 1315

Client Matrix: Water

Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method: 680

Analysis Batch: 680-96775

Instrument ID: No Equipment Assigned to

Preparation: 680

Prep Batch: 680-94579

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1040 mL

Date Analyzed: 01/24/2008 2337

Final Weight/Volume: 1 mL

Date Prepared: 12/26/2007 1445

Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.096	U	0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	75		25 - 113

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02S-F-1207-EB

Lab Sample ID: 680-33004-9EB

Date Sampled: 12/19/2007 1315

Client Matrix: Water

Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method: 680

Analysis Batch: 680-96768

Instrument ID: No Equipment Assigned to

Preparation: 680

Prep Batch: 680-94579

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1060 mL

Date Analyzed: 01/25/2008 1438

Final Weight/Volume: 1 mL

Date Prepared: 12/26/2007 1445

Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.094	U	0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	60		25 - 113

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW03M-1207

Lab Sample ID: 680-33004-10

Date Sampled: 12/19/2007 1425

Client Matrix: Water

Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method: 680

Analysis Batch: 680-96775

Instrument ID: No Equipment Assigned to

Preparation: 680

Prep Batch: 680-94579

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1030 mL

Date Analyzed: 01/25/2008 0109

Final Weight/Volume: 1 mL

Date Prepared: 12/26/2007 1445

Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.76		0.097
Dichlorobiphenyl	0.097	U	0.097
Trichlorobiphenyl	0.097	U	0.097
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.49	U	0.49
DCB Decachlorobiphenyl	0.49	U	0.49
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	50		25 - 113

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1
Sdg Number: KPM012

Client Sample ID: PMAMW03S-1207

Lab Sample ID: 680-33004-12
Client Matrix: Water

Date Sampled: 12/19/2007 1555
Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method:	680	Analysis Batch: 680-96775	Instrument ID:	No Equipment Assigned to
Preparation:	680	Prep Batch: 680-94579	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	1040 mL
Date Analyzed:	01/25/2008 0240		Final Weight/Volume:	1 mL
Date Prepared:	12/26/2007 1445		Injection Volume:	

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.21		0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	52		25 - 113

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW03S-F-1207

Lab Sample ID: 680-33004-13

Date Sampled: 12/19/2007 1555

Client Matrix: Water

Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method: 680

Analysis Batch: 680-96775

Instrument ID: No Equipment Assigned to

Preparation: 680

Prep Batch: 680-94579

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1040 mL

Date Analyzed: 01/25/2008 1326

Final Weight/Volume: 1 mL

Date Prepared: 12/26/2007 1445

Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.22		0.096
Dichlorobiphenyl	0.096	U	0.096
Trichlorobiphenyl	0.096	U	0.096
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.48	U	0.48
DCB Decachlorobiphenyl	0.48	U	0.48
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	63		25 - 113

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-1207

Lab Sample ID: 680-33004-2

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5110.d
Dilution:	1.0		Initial Weight/Volume: 1040 mL
Date Analyzed:	01/16/2008 1441		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.6	U	9.6
Acenaphthylene	9.6	U	9.6
Acetophenone	9.6	U	9.6
2-Acetylaminofluorene	9.6	U	9.6
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.6	U	9.6
Aniline	19	U	19
Anthracene	9.6	U	9.6
Aramite, Total	9.6	U	9.6
Benzo[a]anthracene	9.6	U	9.6
Benzo[a]pyrene	9.6	U	9.6
Benzo[b]fluoranthene	9.6	U	9.6
Benzo[g,h,i]perylene	9.6	U	9.6
Benzo[k]fluoranthene	9.6	U	9.6
Benzyl alcohol	9.6	U	9.6
1,1'-Biphenyl	9.6	U	9.6
Bis(2-chloroethoxy)methane	9.6	U	9.6
Bis(2-chloroethyl)ether	9.6	U	9.6
bis(chloroisopropyl) ether	9.6	U	9.6
Bis(2-ethylhexyl) phthalate	9.6	U	9.6
4-Bromophenyl phenyl ether	9.6	U	9.6
Butyl benzyl phthalate	9.6	U	9.6
4-Chloroaniline	94		19
4-Chloro-3-methylphenol	9.6	U	9.6
2-Chloronaphthalene	9.6	U	9.6
2-Chlorophenol	12		9.6
4-Chlorophenyl phenyl ether	9.6	U	9.6
Chrysene	9.6	U	9.6
Diallate	9.6	U	9.6
Dibenz(a,h)anthracene	9.6	U	9.6
Dibenzofuran	9.6	U	9.6
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.6	U	9.6
2,6-Dichlorophenol	9.6	U	9.6
Diethyl phthalate	9.6	U	9.6
Dimethoate	9.6	U	9.6
7,12-Dimethylbenz(a)anthracene	9.6	U	9.6
3,3'-Dimethylbenzidine	19	U *	19
2,4-Dimethylphenol	9.6	U	9.6
Dimethyl phthalate	9.6	U	9.6
Di-n-butyl phthalate	9.6	U	9.6
1,3-Dinitrobenzene	9.6	U	9.6
4,6-Dinitro-2-methylphenol	48	U	48
2,4-Dinitrophenol	48	U	48

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-1207

Lab Sample ID: 680-33004-2

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID:	GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID:	t5110.d
Dilution:	1.0		Initial Weight/Volume:	1040 mL
Date Analyzed:	01/16/2008 1441		Final Weight/Volume:	1 mL
Date Prepared:	12/26/2007 1645		Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	9.6	U	9.6
2,6-Dinitrotoluene	9.6	U	9.6
Di-n-octyl phthalate	9.6	U	9.6
Dinoseb	9.6	U	9.6
1,4-Dioxane	9.6	U	9.6
Disulfoton	9.6	U	9.6
Ethyl methanesulfonate	9.6	U	9.6
Famphur	9.6	U	9.6
Fluoranthene	9.6	U	9.6
Fluorene	9.6	U	9.6
Hexachlorobenzene	9.6	U	9.6
Hexachlorobutadiene	9.6	U	9.6
Hexachlorocyclopentadiene	9.6	U	9.6
Hexachloroethane	9.6	U	9.6
Hexachlorophene	4800	U	4800
Hexachloropropene	9.6	U	9.6
Indeno[1,2,3-cd]pyrene	9.6	U	9.6
Isophorone	9.6	U	9.6
Isosafrole	9.6	U	9.6
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.6	U	9.6
Methyl methanesulfonate	9.6	U	9.6
2-Methylnaphthalene	9.6	U	9.6
Methyl parathion	9.6	U	9.6
2-Methylphenol	9.6	U	9.6
3 & 4 Methylphenol	9.6	U	9.6
Naphthalene	9.6	U	9.6
1,4-Naphthoquinone	9.6	U	9.6
1-Naphthylamine	9.6	U	9.6
2-Naphthylamine	9.6	U	9.6
2-Nitroaniline	48	U	48
3-Nitroaniline	48	U	48
4-Nitroaniline	48	U	48
Nitrobenzene	9.6	U	9.6
2-Nitrophenol	9.6	U	9.6
4-Nitrophenol	48	U	48
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.6	U	9.6
N-Nitrosodiethylamine	9.6	U	9.6
N-Nitrosodimethylamine	9.6	U	9.6
N-Nitrosodi-n-butylamine	9.6	U	9.6
N-Nitrosodi-n-propylamine	9.6	U	9.6
N-Nitrosodiphenylamine	9.6	U	9.6
N-Nitrosomethylethylamine	9.6	U	9.6

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-1207

Lab Sample ID: 680-33004-2

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5110.d
Dilution:	1.0		Initial Weight/Volume: 1040 mL
Date Analyzed:	01/16/2008 1441		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.6	U	9.6
N-Nitrosopiperidine	9.6	U	9.6
N-Nitrosopyrrolidine	9.6	U	9.6
o,o',o"-Triethylphosphorothioate	9.6	U	9.6
Ethyl Parathion	9.6	U	9.6
p-Dimethylamino azobenzene	9.6	U	9.6
Pentachlorobenzene	9.6	U	9.6
Pentachloronitrobenzene	9.6	U	9.6
Pentachlorophenol	48	U	48
Phenacetin	9.6	U	9.6
Phenanthrene	9.6	U	9.6
Phenol	36		9.6
Phorate	9.6	U	9.6
2-Picoline	9.6	U	9.6
p-Phenylene diamine	1900	U *	1900
Pronamide	9.6	U	9.6
Pyrene	9.6	U	9.6
Pyridine	48	U	48
Safrole, Total	9.6	U	9.6
Sulfotepp	9.6	U	9.6
1,2,4,5-Tetrachlorobenzene	9.6	U	9.6
2,3,4,6-Tetrachlorophenol	9.6	U	9.6
Thionazin	9.6	U	9.6
2-Toluidine	9.6	U	9.6
1,2,4-Trichlorobenzene	9.6	U	9.6
2,4,5-Trichlorophenol	9.6	U	9.6
2,4,6-Trichlorophenol	9.6	U	9.6
1,3,5-Trinitrobenzene	9.6	U	9.6
1-Chloro-3-nitrobenzene	9.6	U	9.6
2-Nitrobiphenyl	9.6	U	9.6
2,4-Dichloronitrobenzene	9.6	U	9.6
3-Nitrobiphenyl	9.6	U	9.6
3,4-Dichloronitrobenzene	9.6	U	9.6
4-Nitrobiphenyl	9.6	U	9.6
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	82	50 - 113
2-Fluorophenol	76	36 - 110
Nitrobenzene-d5	86	45 - 112
Phenol-d5	83	38 - 116
Terphenyl-d14	45	10 - 121
2,4,6-Tribromophenol	97	40 - 139

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-1207-AD

Lab Sample ID: 680-33004-4FD

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5111.d
Dilution:	1.0		Initial Weight/Volume: 1040 mL
Date Analyzed:	01/16/2008 1505		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.6	U	9.6
Acenaphthylene	9.6	U	9.6
Acetophenone	9.6	U	9.6
2-Acetylaminofluorene	9.6	U	9.6
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.6	U	9.6
Aniline	19	U	19
Anthracene	9.6	U	9.6
Aramite, Total	9.6	U	9.6
Benzo[a]anthracene	9.6	U	9.6
Benzo[a]pyrene	9.6	U	9.6
Benzo[b]fluoranthene	9.6	U	9.6
Benzo[g,h,i]perylene	9.6	U	9.6
Benzo[k]fluoranthene	9.6	U	9.6
Benzyl alcohol	9.6	U	9.6
1,1'-Biphenyl	9.6	U	9.6
Bis(2-chloroethoxy)methane	9.6	U	9.6
Bis(2-chloroethyl)ether	9.6	U	9.6
bis(chloroisopropyl) ether	9.6	U	9.6
Bis(2-ethylhexyl) phthalate	9.6	U	9.6
4-Bromophenyl phenyl ether	9.6	U	9.6
Butyl benzyl phthalate	9.6	U	9.6
4-Chloroaniline	80		19
4-Chloro-3-methylphenol	9.6	U	9.6
2-Chloronaphthalene	9.6	U	9.6
2-Chlorophenol	10		9.6
4-Chlorophenyl phenyl ether	9.6	U	9.6
Chrysene	9.6	U	9.6
Diallate	9.6	U	9.6
Dibenz(a,h)anthracene	9.6	U	9.6
Dibenzofuran	9.6	U	9.6
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.6	U	9.6
2,6-Dichlorophenol	9.6	U	9.6
Diethyl phthalate	9.6	U	9.6
Dimethoate	9.6	U	9.6
7,12-Dimethylbenz(a)anthracene	9.6	U	9.6
3,3'-Dimethylbenzidine	19	U *	19
2,4-Dimethylphenol	9.6	U	9.6
Dimethyl phthalate	9.6	U	9.6
Di-n-butyl phthalate	9.6	U	9.6
1,3-Dinitrobenzene	9.6	U	9.6
4,6-Dinitro-2-methylphenol	48	U	48
2,4-Dinitrophenol	48	U	48

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-1207-AD

Lab Sample ID: 680-33004-4FD

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5111.d
Dilution:	1.0		Initial Weight/Volume: 1040 mL
Date Analyzed:	01/16/2008 1505		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	9.6	U	9.6
2,6-Dinitrotoluene	9.6	U	9.6
Di-n-octyl phthalate	9.6	U	9.6
Dinoseb	9.6	U	9.6
1,4-Dioxane	9.6	U	9.6
Disulfoton	9.6	U	9.6
Ethyl methanesulfonate	9.6	U	9.6
Famphur	9.6	U	9.6
Fluoranthene	9.6	U	9.6
Fluorene	9.6	U	9.6
Hexachlorobenzene	9.6	U	9.6
Hexachlorobutadiene	9.6	U	9.6
Hexachlorocyclopentadiene	9.6	U	9.6
Hexachloroethane	9.6	U	9.6
Hexachlorophene	4800	U	4800
Hexachloropropene	9.6	U	9.6
Indeno[1,2,3-cd]pyrene	9.6	U	9.6
Isophorone	9.6	U	9.6
Isosafrole	9.6	U	9.6
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.6	U	9.6
Methyl methanesulfonate	9.6	U	9.6
2-Methylnaphthalene	9.6	U	9.6
Methyl parathion	9.6	U	9.6
2-Methylphenol	9.6	U	9.6
3 & 4 Methylphenol	9.6	U	9.6
Naphthalene	9.6	U	9.6
1,4-Naphthoquinone	9.6	U	9.6
1-Naphthylamine	9.6	U	9.6
2-Naphthylamine	9.6	U	9.6
2-Nitroaniline	48	U	48
3-Nitroaniline	48	U	48
4-Nitroaniline	48	U	48
Nitrobenzene	9.6	U	9.6
2-Nitrophenol	9.6	U	9.6
4-Nitrophenol	48	U	48
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.6	U	9.6
N-Nitrosodiethylamine	9.6	U	9.6
N-Nitrosodimethylamine	9.6	U	9.6
N-Nitrosodi-n-butylamine	9.6	U	9.6
N-Nitrosodi-n-propylamine	9.6	U	9.6
N-Nitrosodiphenylamine	9.6	U	9.6
N-Nitrosomethylethylamine	9.6	U	9.6

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02M-1207-AD

Lab Sample ID: 680-33004-4FD

Date Sampled: 12/19/2007 0950

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5111.d
Dilution:	1.0		Initial Weight/Volume: 1040 mL
Date Analyzed:	01/16/2008 1505		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.6	U	9.6
N-Nitrosopiperidine	9.6	U	9.6
N-Nitrosopyrrolidine	9.6	U	9.6
o,o',o"-Triethylphosphorothioate	9.6	U	9.6
Ethyl Parathion	9.6	U	9.6
p-Dimethylamino azobenzene	9.6	U	9.6
Pentachlorobenzene	9.6	U	9.6
Pentachloronitrobenzene	9.6	U	9.6
Pentachlorophenol	48	U	48
Phenacetin	9.6	U	9.6
Phenanthrene	9.6	U	9.6
Phenol	32		9.6
Phorate	9.6	U	9.6
2-Picoline	9.6	U	9.6
p-Phenylene diamine	1900	U *	1900
Pronamide	9.6	U	9.6
Pyrene	9.6	U	9.6
Pyridine	48	U	48
Safrole, Total	9.6	U	9.6
Sulfotepp	9.6	U	9.6
1,2,4,5-Tetrachlorobenzene	9.6	U	9.6
2,3,4,6-Tetrachlorophenol	9.6	U	9.6
Thionazin	9.6	U	9.6
2-Toluidine	9.6	U	9.6
1,2,4-Trichlorobenzene	9.6	U	9.6
2,4,5-Trichlorophenol	9.6	U	9.6
2,4,6-Trichlorophenol	9.6	U	9.6
1,3,5-Trinitrobenzene	9.6	U	9.6
1-Chloro-3-nitrobenzene	9.6	U	9.6
2-Nitrobiphenyl	9.6	U	9.6
2,4-Dichloronitrobenzene	9.6	U	9.6
3-Nitrobiphenyl	9.6	U	9.6
3,4-Dichloronitrobenzene	9.6	U	9.6
4-Nitrobiphenyl	9.6	U	9.6
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	81	50 - 113
2-Fluorophenol	70	36 - 110
Nitrobenzene-d5	86	45 - 112
Phenol-d5	75	38 - 116
Terphenyl-d14	44	10 - 121
2,4,6-Tribromophenol	93	40 - 139

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02S-1207

Lab Sample ID: 680-33004-6

Date Sampled: 12/19/2007 1230

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5112.d
Dilution:	1.0		Initial Weight/Volume: 1040 mL
Date Analyzed:	01/16/2008 1529		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.6	U	9.6
Acenaphthylene	9.6	U	9.6
Acetophenone	9.6	U	9.6
2-Acetylaminofluorene	9.6	U	9.6
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.6	U	9.6
Aniline	19	U	19
Anthracene	9.6	U	9.6
Aramite, Total	9.6	U	9.6
Benzo[a]anthracene	9.6	U	9.6
Benzo[a]pyrene	9.6	U	9.6
Benzo[b]fluoranthene	9.6	U	9.6
Benzo[g,h,i]perylene	9.6	U	9.6
Benzo[k]fluoranthene	9.6	U	9.6
Benzyl alcohol	9.6	U	9.6
1,1'-Biphenyl	9.6	U	9.6
Bis(2-chloroethoxy)methane	9.6	U	9.6
Bis(2-chloroethyl)ether	9.6	U	9.6
bis(chloroisopropyl) ether	9.6	U	9.6
Bis(2-ethylhexyl) phthalate	9.6	U	9.6
4-Bromophenyl phenyl ether	9.6	U	9.6
Butyl benzyl phthalate	9.6	U	9.6
4-Chloroaniline	19	U	19
4-Chloro-3-methylphenol	9.6	U	9.6
2-Chloronaphthalene	9.6	U	9.6
2-Chlorophenol	9.6	U	9.6
4-Chlorophenyl phenyl ether	9.6	U	9.6
Chrysene	9.6	U	9.6
Diallate	9.6	U	9.6
Dibenz(a,h)anthracene	9.6	U	9.6
Dibenzofuran	9.6	U	9.6
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.6	U	9.6
2,6-Dichlorophenol	9.6	U	9.6
Diethyl phthalate	9.6	U	9.6
Dimethoate	9.6	U	9.6
7,12-Dimethylbenz(a)anthracene	9.6	U	9.6
3,3'-Dimethylbenzidine	19	U *	19
2,4-Dimethylphenol	9.6	U	9.6
Dimethyl phthalate	9.6	U	9.6
Di-n-butyl phthalate	9.6	U	9.6
1,3-Dinitrobenzene	9.6	U	9.6
4,6-Dinitro-2-methylphenol	48	U	48
2,4-Dinitrophenol	48	U	48

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02S-1207

Lab Sample ID: 680-33004-6

Date Sampled: 12/19/2007 1230

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID:	GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID:	t5112.d
Dilution:	1.0		Initial Weight/Volume:	1040 mL
Date Analyzed:	01/16/2008 1529		Final Weight/Volume:	1 mL
Date Prepared:	12/26/2007 1645		Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	9.6	U	9.6
2,6-Dinitrotoluene	9.6	U	9.6
Di-n-octyl phthalate	9.6	U	9.6
Dinoseb	9.6	U	9.6
1,4-Dioxane	9.6	U	9.6
Disulfoton	9.6	U	9.6
Ethyl methanesulfonate	9.6	U	9.6
Famphur	9.6	U	9.6
Fluoranthene	9.6	U	9.6
Fluorene	9.6	U	9.6
Hexachlorobenzene	9.6	U	9.6
Hexachlorobutadiene	9.6	U	9.6
Hexachlorocyclopentadiene	9.6	U	9.6
Hexachloroethane	9.6	U	9.6
Hexachlorophene	4800	U	4800
Hexachloropropene	9.6	U	9.6
Indeno[1,2,3-cd]pyrene	9.6	U	9.6
Isophorone	9.6	U	9.6
Isosafrole	9.6	U	9.6
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.6	U	9.6
Methyl methanesulfonate	9.6	U	9.6
2-Methylnaphthalene	9.6	U	9.6
Methyl parathion	9.6	U	9.6
2-Methylphenol	9.6	U	9.6
3 & 4 Methylphenol	9.6	U	9.6
Naphthalene	9.6	U	9.6
1,4-Naphthoquinone	9.6	U	9.6
1-Naphthylamine	9.6	U	9.6
2-Naphthylamine	9.6	U	9.6
2-Nitroaniline	48	U	48
3-Nitroaniline	48	U	48
4-Nitroaniline	48	U	48
Nitrobenzene	9.6	U	9.6
2-Nitrophenol	9.6	U	9.6
4-Nitrophenol	48	U	48
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.6	U	9.6
N-Nitrosodiethylamine	9.6	U	9.6
N-Nitrosodimethylamine	9.6	U	9.6
N-Nitrosodi-n-butylamine	9.6	U	9.6
N-Nitrosodi-n-propylamine	9.6	U	9.6
N-Nitrosodiphenylamine	9.6	U	9.6
N-Nitrosomethylethylamine	9.6	U	9.6

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02S-1207

Lab Sample ID: 680-33004-6

Date Sampled: 12/19/2007 1230

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5112.d
Dilution:	1.0		Initial Weight/Volume: 1040 mL
Date Analyzed:	01/16/2008 1529		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.6	U	9.6
N-Nitrosopiperidine	9.6	U	9.6
N-Nitrosopyrrolidine	9.6	U	9.6
o,o',o"-Triethylphosphorothioate	9.6	U	9.6
Ethyl Parathion	9.6	U	9.6
p-Dimethylamino azobenzene	9.6	U	9.6
Pentachlorobenzene	9.6	U	9.6
Pentachloronitrobenzene	9.6	U	9.6
Pentachlorophenol	48	U	48
Phenacetin	9.6	U	9.6
Phenanthrene	9.6	U	9.6
Phenol	9.6	U	9.6
Phorate	9.6	U	9.6
2-Picoline	9.6	U	9.6
p-Phenylene diamine	1900	U *	1900
Pronamide	9.6	U	9.6
Pyrene	9.6	U	9.6
Pyridine	48	U	48
Safrole, Total	9.6	U	9.6
Sulfotepp	9.6	U	9.6
1,2,4,5-Tetrachlorobenzene	9.6	U	9.6
2,3,4,6-Tetrachlorophenol	9.6	U	9.6
Thionazin	9.6	U	9.6
2-Toluidine	9.6	U	9.6
1,2,4-Trichlorobenzene	9.6	U	9.6
2,4,5-Trichlorophenol	9.6	U	9.6
2,4,6-Trichlorophenol	9.6	U	9.6
1,3,5-Trinitrobenzene	9.6	U	9.6
1-Chloro-3-nitrobenzene	9.6	U	9.6
2-Nitrobiphenyl	9.6	U	9.6
2,4-Dichloronitrobenzene	9.6	U	9.6
3-Nitrobiphenyl	9.6	U	9.6
3,4-Dichloronitrobenzene	9.6	U	9.6
4-Nitrobiphenyl	9.6	U	9.6
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	86	50 - 113
2-Fluorophenol	75	36 - 110
Nitrobenzene-d5	87	45 - 112
Phenol-d5	77	38 - 116
Terphenyl-d14	87	10 - 121
2,4,6-Tribromophenol	92	40 - 139

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02S-1207-EB

Lab Sample ID: 680-33004-8EB

Date Sampled: 12/19/2007 1315

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96141	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5128.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/17/2008 1142		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.4	U	9.4
Acenaphthylene	9.4	U	9.4
Acetophenone	9.4	U	9.4
2-Acetylaminofluorene	9.4	U	9.4
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.4	U	9.4
Aniline	19	U	19
Anthracene	9.4	U	9.4
Aramite, Total	9.4	U	9.4
Benzo[a]anthracene	9.4	U	9.4
Benzo[a]pyrene	9.4	U	9.4
Benzo[b]fluoranthene	9.4	U	9.4
Benzo[g,h,i]perylene	9.4	U	9.4
Benzo[k]fluoranthene	9.4	U	9.4
Benzyl alcohol	9.4	U	9.4
1,1'-Biphenyl	9.4	U	9.4
Bis(2-chloroethoxy)methane	9.4	U	9.4
Bis(2-chloroethyl)ether	9.4	U	9.4
bis(chloroisopropyl) ether	9.4	U	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	9.4
4-Bromophenyl phenyl ether	9.4	U	9.4
Butyl benzyl phthalate	9.4	U	9.4
4-Chloroaniline	19	U	19
4-Chloro-3-methylphenol	9.4	U	9.4
2-Chloronaphthalene	9.4	U	9.4
2-Chlorophenol	9.4	U	9.4
4-Chlorophenyl phenyl ether	9.4	U	9.4
Chrysene	9.4	U	9.4
Diallate	9.4	U	9.4
Dibenz(a,h)anthracene	9.4	U	9.4
Dibenzofuran	9.4	U	9.4
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.4	U	9.4
2,6-Dichlorophenol	9.4	U	9.4
Diethyl phthalate	9.4	U	9.4
Dimethoate	9.4	U	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	9.4
3,3'-Dimethylbenzidine	19	U *	19
2,4-Dimethylphenol	9.4	U	9.4
Dimethyl phthalate	9.4	U	9.4
Di-n-butyl phthalate	9.4	U	9.4
1,3-Dinitrobenzene	9.4	U	9.4
4,6-Dinitro-2-methylphenol	47	U	47
2,4-Dinitrophenol	47	U	47

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Client Sample ID: PMAMW02S-1207-EB

Sdg Number: KPM012

Lab Sample ID: 680-33004-8EB

Date Sampled: 12/19/2007 1315

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96141	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5128.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/17/2008 1142		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	9.4	U	9.4
2,6-Dinitrotoluene	9.4	U	9.4
Di-n-octyl phthalate	9.4	U	9.4
Dinoseb	9.4	U	9.4
1,4-Dioxane	9.4	U	9.4
Disulfoton	9.4	U	9.4
Ethyl methanesulfonate	9.4	U	9.4
Famphur	9.4	U	9.4
Fluoranthene	9.4	U	9.4
Fluorene	9.4	U	9.4
Hexachlorobenzene	9.4	U	9.4
Hexachlorobutadiene	9.4	U	9.4
Hexachlorocyclopentadiene	9.4	U	9.4
Hexachloroethane	9.4	U	9.4
Hexachlorophene	4700	U	4700
Hexachloropropene	9.4	U	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	9.4
Isophorone	9.4	U	9.4
Isosafrole	9.4	U	9.4
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.4	U	9.4
Methyl methanesulfonate	9.4	U	9.4
2-Methylnaphthalene	9.4	U	9.4
Methyl parathion	9.4	U	9.4
2-Methylphenol	9.4	U	9.4
3 & 4 Methylphenol	9.4	U	9.4
Naphthalene	9.4	U	9.4
1,4-Naphthoquinone	9.4	U	9.4
1-Naphthylamine	9.4	U	9.4
2-Naphthylamine	9.4	U	9.4
2-Nitroaniline	47	U	47
3-Nitroaniline	47	U	47
4-Nitroaniline	47	U	47
Nitrobenzene	9.4	U	9.4
2-Nitrophenol	9.4	U	9.4
4-Nitrophenol	47	U	47
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.4	U	9.4
N-Nitrosodiethylamine	9.4	U	9.4
N-Nitrosodimethylamine	9.4	U	9.4
N-Nitrosodi-n-butylamine	9.4	U	9.4
N-Nitrosodi-n-propylamine	9.4	U	9.4
N-Nitrosodiphenylamine	9.4	U	9.4
N-Nitrosomethylethylamine	9.4	U	9.4

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW02S-1207-EB

Lab Sample ID: 680-33004-8EB

Date Sampled: 12/19/2007 1315

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96141	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5128.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/17/2008 1142		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.4	U	9.4
N-Nitrosopiperidine	9.4	U	9.4
N-Nitrosopyrrolidine	9.4	U	9.4
o,o',o"-Triethylphosphorothioate	9.4	U	9.4
Ethyl Parathion	9.4	U	9.4
p-Dimethylamino azobenzene	9.4	U	9.4
Pentachlorobenzene	9.4	U	9.4
Pentachloronitrobenzene	9.4	U	9.4
Pentachlorophenol	47	U	47
Phenacetin	9.4	U	9.4
Phenanthrene	9.4	U	9.4
Phenol	9.4	U	9.4
Phorate	9.4	U	9.4
2-Picoline	9.4	U	9.4
p-Phenylene diamine	1900	U *	1900
Pronamide	9.4	U	9.4
Pyrene	9.4	U	9.4
Pyridine	47	U	47
Safrole, Total	9.4	U	9.4
Sulfotepp	9.4	U	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	9.4
Thionazin	9.4	U	9.4
2-Toluidine	9.4	U	9.4
1,2,4-Trichlorobenzene	9.4	U	9.4
2,4,5-Trichlorophenol	9.4	U	9.4
2,4,6-Trichlorophenol	9.4	U	9.4
1,3,5-Trinitrobenzene	9.4	U	9.4
1-Chloro-3-nitrobenzene	9.4	U	9.4
2-Nitrobiphenyl	9.4	U	9.4
2,4-Dichloronitrobenzene	9.4	U	9.4
3-Nitrobiphenyl	9.4	U	9.4
3,4-Dichloronitrobenzene	9.4	U	9.4
4-Nitrobiphenyl	9.4	U	9.4
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	80	50 - 113
2-Fluorophenol	72	36 - 110
Nitrobenzene-d5	83	45 - 112
Phenol-d5	69	38 - 116
Terphenyl-d14	93	10 - 121
2,4,6-Tribromophenol	94	40 - 139

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW03M-1207

Lab Sample ID: 680-33004-10

Date Sampled: 12/19/2007 1425

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5114.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/16/2008 1616		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.4	U	9.4
Acenaphthylene	9.4	U	9.4
Acetophenone	9.4	U	9.4
2-Acetylaminofluorene	9.4	U	9.4
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.4	U	9.4
Aniline	19	U	19
Anthracene	9.4	U	9.4
Aramite, Total	9.4	U	9.4
Benzo[a]anthracene	9.4	U	9.4
Benzo[a]pyrene	9.4	U	9.4
Benzo[b]fluoranthene	9.4	U	9.4
Benzo[g,h,i]perylene	9.4	U	9.4
Benzo[k]fluoranthene	9.4	U	9.4
Benzyl alcohol	9.4	U	9.4
1,1'-Biphenyl	9.4	U	9.4
Bis(2-chloroethoxy)methane	9.4	U	9.4
Bis(2-chloroethyl)ether	9.4	U	9.4
bis(chloroisopropyl) ether	9.4	U	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	9.4
4-Bromophenyl phenyl ether	9.4	U	9.4
Butyl benzyl phthalate	9.4	U	9.4
4-Chloroaniline	130	U	19
4-Chloro-3-methylphenol	9.4	U	9.4
2-Chloronaphthalene	9.4	U	9.4
2-Chlorophenol	9.4	U	9.4
4-Chlorophenyl phenyl ether	9.4	U	9.4
Chrysene	9.4	U	9.4
Diallate	9.4	U	9.4
Dibenz(a,h)anthracene	9.4	U	9.4
Dibenzofuran	9.4	U	9.4
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.4	U	9.4
2,6-Dichlorophenol	9.4	U	9.4
Diethyl phthalate	9.4	U	9.4
Dimethoate	9.4	U	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	9.4
3,3'-Dimethylbenzidine	19	U *	19
2,4-Dimethylphenol	9.4	U	9.4
Dimethyl phthalate	9.4	U	9.4
Di-n-butyl phthalate	9.4	U	9.4
1,3-Dinitrobenzene	9.4	U	9.4
4,6-Dinitro-2-methylphenol	47	U	47
2,4-Dinitrophenol	47	U	47

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW03M-1207

Lab Sample ID: 680-33004-10

Date Sampled: 12/19/2007 1425

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5114.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/16/2008 1616		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	9.4	U	9.4
2,6-Dinitrotoluene	9.4	U	9.4
Di-n-octyl phthalate	9.4	U	9.4
Dinoseb	9.4	U	9.4
1,4-Dioxane	9.4	U	9.4
Disulfoton	9.4	U	9.4
Ethyl methanesulfonate	9.4	U	9.4
Famphur	9.4	U	9.4
Fluoranthene	9.4	U	9.4
Fluorene	9.4	U	9.4
Hexachlorobenzene	9.4	U	9.4
Hexachlorobutadiene	9.4	U	9.4
Hexachlorocyclopentadiene	9.4	U	9.4
Hexachloroethane	9.4	U	9.4
Hexachlorophene	4700	U	4700
Hexachloropropene	9.4	U	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	9.4
Isophorone	9.4	U	9.4
Isosafrole	9.4	U	9.4
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.4	U	9.4
Methyl methanesulfonate	9.4	U	9.4
2-Methylnaphthalene	9.4	U	9.4
Methyl parathion	9.4	U	9.4
2-Methylphenol	9.4	U	9.4
3 & 4 Methylphenol	9.4	U	9.4
Naphthalene	15		9.4
1,4-Naphthoquinone	9.4	U	9.4
1-Naphthylamine	9.4	U	9.4
2-Naphthylamine	9.4	U	9.4
2-Nitroaniline	47	U	47
3-Nitroaniline	47	U	47
4-Nitroaniline	47	U	47
Nitrobenzene	9.4	U	9.4
2-Nitrophenol	9.4	U	9.4
4-Nitrophenol	47	U	47
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.4	U	9.4
N-Nitrosodiethylamine	9.4	U	9.4
N-Nitrosodimethylamine	9.4	U	9.4
N-Nitrosodi-n-butylamine	9.4	U	9.4
N-Nitrosodi-n-propylamine	9.4	U	9.4
N-Nitrosodiphenylamine	9.4	U	9.4
N-Nitrosomethylethylamine	9.4	U	9.4

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW03M-1207

Lab Sample ID: 680-33004-10

Date Sampled: 12/19/2007 1425

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94572	Lab File ID: t5114.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/16/2008 1616		Final Weight/Volume: 1 mL
Date Prepared:	12/26/2007 1645		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.4	U	9.4
N-Nitrosopiperidine	9.4	U	9.4
N-Nitrosopyrrolidine	9.4	U	9.4
o,o',o"-Triethylphosphorothioate	9.4	U	9.4
Ethyl Parathion	9.4	U	9.4
p-Dimethylamino azobenzene	9.4	U	9.4
Pentachlorobenzene	9.4	U	9.4
Pentachloronitrobenzene	9.4	U	9.4
Pentachlorophenol	47	U	47
Phenacetin	9.4	U	9.4
Phenanthrene	9.4	U	9.4
Phenol	9.4	U	9.4
Phorate	9.4	U	9.4
2-Picoline	9.4	U	9.4
p-Phenylene diamine	1900	U *	1900
Pronamide	9.4	U	9.4
Pyrene	9.4	U	9.4
Pyridine	47	U	47
Safrole, Total	9.4	U	9.4
Sulfotepp	9.4	U	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	9.4
Thionazin	9.4	U	9.4
2-Toluidine	9.4	U	9.4
1,2,4-Trichlorobenzene	9.4	U	9.4
2,4,5-Trichlorophenol	9.4	U	9.4
2,4,6-Trichlorophenol	9.4	U	9.4
1,3,5-Trinitrobenzene	9.4	U	9.4
1-Chloro-3-nitrobenzene	9.4	U	9.4
2-Nitrobiphenyl	9.4	U	9.4
2,4-Dichloronitrobenzene	9.4	U	9.4
3-Nitrobiphenyl	9.4	U	9.4
3,4-Dichloronitrobenzene	9.4	U	9.4
4-Nitrobiphenyl	9.4	U	9.4
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	85	50 - 113
2-Fluorophenol	74	36 - 110
Nitrobenzene-d5	84	45 - 112
Phenol-d5	76	38 - 116
Terphenyl-d14	36	10 - 121
2,4,6-Tribromophenol	96	40 - 139

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW03S-1207

Lab Sample ID: 680-33004-12

Date Sampled: 12/19/2007 1555

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94891	Lab File ID: t5123.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/16/2008 1949		Final Weight/Volume: 1 mL
Date Prepared:	12/31/2007 1340		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.4	U H	9.4
Acenaphthylene	9.4	U H	9.4
Acetophenone	9.4	U H	9.4
2-Acetylaminofluorene	9.4	U H	9.4
alpha,alpha-Dimethyl phenethylamine	1900	U H	1900
4-Aminobiphenyl	9.4	U H	9.4
Aniline	19	U H	19
Anthracene	9.4	U H	9.4
Aramite, Total	9.4	U H	9.4
Benzo[a]anthracene	9.4	U H	9.4
Benzo[a]pyrene	9.4	U H	9.4
Benzo[b]fluoranthene	9.4	U H	9.4
Benzo[g,h,i]perylene	9.4	U H	9.4
Benzo[k]fluoranthene	9.4	U H	9.4
Benzyl alcohol	9.4	U H	9.4
1,1'-Biphenyl	9.4	U H	9.4
Bis(2-chloroethoxy)methane	9.4	U H	9.4
Bis(2-chloroethyl)ether	9.4	U H	9.4
bis(chloroisopropyl) ether	9.4	U H	9.4
Bis(2-ethylhexyl) phthalate	9.4	U H	9.4
4-Bromophenyl phenyl ether	9.4	U H	9.4
Butyl benzyl phthalate	9.4	U H	9.4
4-Chloroaniline	19	U H	19
4-Chloro-3-methylphenol	9.4	U H	9.4
2-Chloronaphthalene	9.4	U H	9.4
2-Chlorophenol	9.4	U H	9.4
4-Chlorophenyl phenyl ether	9.4	U H	9.4
Chrysene	9.4	U H	9.4
Diallate	9.4	U H	9.4
Dibenz(a,h)anthracene	9.4	U H	9.4
Dibenzofuran	9.4	U H	9.4
3,3'-Dichlorobenzidine	19	U H *	19
2,4-Dichlorophenol	9.4	U H	9.4
2,6-Dichlorophenol	9.4	U H	9.4
Diethyl phthalate	9.4	U H	9.4
Dimethoate	9.4	U H	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U H	9.4
3,3'-Dimethylbenzidine	19	U H	19
2,4-Dimethylphenol	9.4	U H	9.4
Dimethyl phthalate	9.4	U H	9.4
Di-n-butyl phthalate	9.4	U H	9.4
1,3-Dinitrobenzene	9.4	U H	9.4
4,6-Dinitro-2-methylphenol	47	U H	47
2,4-Dinitrophenol	47	U H	47

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW03S-1207

Lab Sample ID: 680-33004-12

Date Sampled: 12/19/2007 1555

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID:	GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94891	Lab File ID:	t5123.d
Dilution:	1.0		Initial Weight/Volume:	1060 mL
Date Analyzed:	01/16/2008 1949		Final Weight/Volume:	1 mL
Date Prepared:	12/31/2007 1340		Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	9.4	UH	9.4
2,6-Dinitrotoluene	9.4	UH	9.4
Di-n-octyl phthalate	9.4	UH	9.4
Dinoseb	9.4	UH	9.4
1,4-Dioxane	9.4	UH	9.4
Disulfoton	9.4	UH	9.4
Ethyl methanesulfonate	9.4	UH	9.4
Famphur	9.4	UH	9.4
Fluoranthene	9.4	UH	9.4
Fluorene	9.4	UH	9.4
Hexachlorobenzene	9.4	UH	9.4
Hexachlorobutadiene	9.4	UH	9.4
Hexachlorocyclopentadiene	9.4	UH	9.4
Hexachloroethane	9.4	UH	9.4
Hexachlorophene	4700	UH	4700
Hexachloropropene	9.4	UH	9.4
Indeno[1,2,3-cd]pyrene	9.4	UH	9.4
Isophorone	9.4	UH	9.4
Isosafrole	9.4	UH	9.4
Methapyrilene	1900	UH	1900
3-Methylcholanthrene	9.4	UH	9.4
Methyl methanesulfonate	9.4	UH	9.4
2-Methylnaphthalene	9.4	UH	9.4
Methyl parathion	9.4	UH	9.4
2-Methylphenol	9.4	UH	9.4
3 & 4 Methylphenol	9.4	UH	9.4
Naphthalene	9.4	UH	9.4
1,4-Naphthoquinone	9.4	UH	9.4
1-Naphthylamine	9.4	UH	9.4
2-Naphthylamine	9.4	UH	9.4
2-Nitroaniline	47	UH	47
3-Nitroaniline	47	UH	47
4-Nitroaniline	47	UH	47
Nitrobenzene	9.4	UH	9.4
2-Nitrophenol	9.4	UH	9.4
4-Nitrophenol	47	UH	47
4-Nitroquinoline-1-oxide	19	UH	19
N-Nitro-o-toluidine	9.4	UH	9.4
N-Nitrosodiethylamine	9.4	UH	9.4
N-Nitrosodimethylamine	9.4	UH	9.4
N-Nitrosodi-n-butylamine	9.4	UH	9.4
N-Nitrosodi-n-propylamine	9.4	UH	9.4
N-Nitrosodiphenylamine	9.4	UH	9.4
N-Nitrosomethylethylamine	9.4	UH	9.4

Analytical Data

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Client Sample ID: PMAMW03S-1207

Lab Sample ID: 680-33004-12

Date Sampled: 12/19/2007 1555

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94891	Lab File ID: t5123.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/16/2008 1949		Final Weight/Volume: 1 mL
Date Prepared:	12/31/2007 1340		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.4	UH	9.4
N-Nitrosopiperidine	9.4	UH	9.4
N-Nitrosopyrrolidine	9.4	UH	9.4
o,o',o"-Triethylphosphorothioate	9.4	UH	9.4
Ethyl Parathion	9.4	UH	9.4
p-Dimethylamino azobenzene	9.4	UH	9.4
Pentachlorobenzene	9.4	UH	9.4
Pentachloronitrobenzene	9.4	UH	9.4
Pentachlorophenol	47	UH	47
Phenacetin	9.4	UH	9.4
Phenanthrene	9.4	UH	9.4
Phenol	9.4	UH	9.4
Phorate	9.4	UH	9.4
2-Picoline	9.4	UH	9.4
p-Phenylene diamine	1900	UH	1900
Pronamide	9.4	UH	9.4
Pyrene	9.4	UH	9.4
Pyridine	47	UH	47
Safrole, Total	9.4	UH	9.4
Sulfotepp	9.4	UH	9.4
1,2,4,5-Tetrachlorobenzene	9.4	UH	9.4
2,3,4,6-Tetrachlorophenol	9.4	UH	9.4
Thionazin	9.4	UH	9.4
2-Toluidine	9.4	UH	9.4
1,2,4-Trichlorobenzene	9.4	UH	9.4
2,4,5-Trichlorophenol	9.4	UH	9.4
2,4,6-Trichlorophenol	9.4	UH	9.4
1,3,5-Trinitrobenzene	9.4	UH	9.4
1-Chloro-3-nitrobenzene	9.4	UH	9.4
2-Nitrobiphenyl	9.4	UH	9.4
2,4-Dichloronitrobenzene	9.4	UH	9.4
3-Nitrobiphenyl	9.4	UH	9.4
3,4-Dichloronitrobenzene	9.4	UH	9.4
4-Nitrobiphenyl	9.4	UH	9.4
2-chloronitrobenzene / 4-chloronitrobenzene	19	UH	19

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	78	50 - 113
2-Fluorophenol	58	36 - 110
Nitrobenzene-d5	73	45 - 112
Phenol-d5	63	38 - 116
Terphenyl-d14	93	10 - 121
2,4,6-Tribromophenol	86	40 - 139

DATA REPORTING QUALIFIERS

Client: Solutia Inc.

Job Number: 680-33004-1

Sdg Number: KPM012

Lab Section	Qualifier	Description
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	H	Sample was prepped or analyzed beyond the specified holding time

SDG KPM013

Results of Samples from Wells:

PMAMW01S

PMAMW01M

Solutia Krummrich Data Review

Laboratory SDG: KPM013

Reviewer: Tony Sedlacek

Date Reviewed: 2/13/2008

Guidance: USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA 1999).

Applicable Work Plan: PCB Mobility and Migration Investigation (URS 2005)

Sample Identification #	Sample Identification #
TB01-1207	PMAMW01M-1207
PMAMW01M-F-1207	PMAMW01S-1207
PMAMW01S-F-1207	

1.0 Data Package Completeness

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

Yes, however samples PSMW12-1207 and PSMW12-1207-F were included on the COC, but the data for these samples was included and reviewed as part of SDG KPS037.

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 PCB surrogates in some samples were diluted out and not recovered. A VOC MSD recovery and SVOC MS/MSD RPD, was outside evaluation criteria. Some VOC and PCB samples were diluted due to a high level of target analytes. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

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

No

Blank ID	Parameter	Analyte	Concentration	Units
N/A				

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
N/A				

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
N/A					

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
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No, PCB surrogate Decachlorobiphenyl-13C12 was diluted out and not recovered in samples PMAMW01M-1207 and PMAMW01M-F-1207. No qualification of data was required.

Field ID	Parameter	Surrogate	Recovery	Criteria
N/A				

Analytical data that required qualification based on surrogate data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

Yes, sample PMAMW01S-1207 was spiked and analyzed for VOCs, SVOCs and PCBs. Sample PMAMW01S-1207-F was spiked and analyzed for PCBs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
PMAMW01S-1207	VOCs	Benzene	90/58	9	77-119/30
PMAMW01S-1207	SVOCs	3,3'-Dichlorobenzidine	59/36	47	10-113/40

Analytical data that required qualification based on MS/MSD data are included in the table below. USEPA National Functional Guidelines for Organic 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.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
N/A				

Analytical data that required qualification based on IS data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

Field ID	Field Duplicate ID
N/A	

Were field duplicates within evaluation criteria?

N/A

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

11.0 Sample Dilutions

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

No

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run *was not* reported:

Field ID	Parameter	Dilution Factor
PMAMW01M-1207	VOCs	10
PMAMW01M-1207	PCBs	10
PMAMW01M-F-1207	PCBs	10

12.0 Additional Qualifications

Were additional qualifications applied?

No

ANALYTICAL REPORT

Job Number: 680-33003-2

SDG Number: KPM013

Job Description: WGK PCB Mobility 4Q07 DEC 2007

For:

URS Corporation
1001 Highlands Plaza Drive West
Suite 300
St. Louis, MO 63110

Attention: Mr. Bob Billman



Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
01/29/2008

cc: Mr. Bruce Yare

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report.

Job Narrative
680-J33003-2 / SDG No. KPM013

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) for analytical batch 94855 did not meet SOP criteria for bromomethane. It was low biased in the CCV. The CCV met method criteria for CCC and SPCC compounds. Samples that ran under this CCV did not have any target hits for bromomethane.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 680: The following samples were diluted due to the abundance of target analytes: PMAMW01M-1207 (680-33003-13), PMAMW01M-F-1207 (680-33003-14). Elevated reporting limits (RLs) are provided.

Method(s) 680: Due to the level of dilution required for the following samples, surrogate recoveries are not reported: PMAMW01M-1207 (680-33003-13), PMAMW01M-F-1207 (680-33003-14).

Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 94494 was outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Comments

No additional comments.

METHOD SUMMARY

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds by GC/MS	TAL SAV	SW846 8260B	
Purge-and-Trap	TAL SAV		SW846 5030B
Polychlorinated Biphenyls by GCMS	TAL SAV	EPA 680	
Polychlorinated Biphenyls by GCMS Preparation for	TAL SAV		EPA 680
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL SAV	SW846 8270C	
Continuous Liquid-Liquid Extraction	TAL SAV		SW846 3520C

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Method	Analyst	Analyst ID
SW846 8260B	Lui, Chung	CL
EPA 680	Johnson, Brad	BJ
SW846 8270C	Johnson, Brad	BJ

SAMPLE SUMMARY

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-33003-12TB	TB01-1207	Water	12/18/2007 0700	12/20/2007 1430
680-33003-13	PMAMW01M-1207	Water	12/18/2007 1205	12/20/2007 1430
680-33003-14	PMAMW01M-F-1207	Water	12/18/2007 1205	12/20/2007 1430
680-33003-15	PMAMW01S-1207	Water	12/18/2007 1400	12/20/2007 1430
680-33003-15MS	PMAMW01S-1207	Water	12/18/2007 1400	12/20/2007 1430
680-33003-15MSD	PMAMW01S-1207	Water	12/18/2007 1400	12/20/2007 1430
680-33003-16	PMAMW01S-F-1207	Water	12/18/2007 1400	12/20/2007 1430
680-33003-16MS	PMAMW01S-F-1207	Water	12/18/2007 1400	12/20/2007 1430
680-33003-16MSD	PMAMW01S-F-1207	Water	12/18/2007 1400	12/20/2007 1430

SAMPLE RESULTS

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Client Sample ID: TB01-1207

Sdg Number: KPM013

Lab Sample ID: 680-33003-12TB

Date Sampled: 12/18/2007 0700

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 680-94855 Instrument ID: GC/MS Volatiles - P
Preparation: 5030B Lab File ID: p5139.d
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 12/29/2007 1628 Final Weight/Volume: 5 mL
Date Prepared: 12/29/2007 1628

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	1.0	U	1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.0	U	1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutyl alcohol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	10	U	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Client Sample ID: TB01-1207

Lab Sample ID: 680-33003-12TB

Date Sampled: 12/18/2007 0700

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 680-94855

Instrument ID: GC/MS Volatiles - P

Preparation: 5030B

Lab File ID: p5139.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 12/29/2007 1628

Final Weight/Volume: 5 mL

Date Prepared: 12/29/2007 1628

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	91	75 - 120
Dibromofluoromethane	93	75 - 121
Toluene-d8 (Surr)	99	75 - 120

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Client Sample ID: PMAMW01M-1207

Lab Sample ID: 680-33003-13

Date Sampled: 12/18/2007 1205

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-94956	Instrument ID: GC/MS Volatiles - P
Preparation:	5030B		Lab File ID: p5171.d
Dilution:	10		Initial Weight/Volume: 5 mL
Date Analyzed:	12/31/2007 1402		Final Weight/Volume: 5 mL
Date Prepared:	12/31/2007 1402		

Analyte	Result (ug/L)	Qualifier	RL
Acetone	250	U	250
Acetonitrile	400	U	400
Acrolein	200	U	200
Acrylonitrile	200	U	200
Benzene	1200		10
Bromoform	10	U	10
Bromomethane	10	U	10
Carbon disulfide	20	U	20
Carbon tetrachloride	10	U	10
Chlorobenzene	1200		10
2-Chloro-1,3-butadiene	10	U	10
Chlorodibromomethane	10	U	10
Chloroethane	10	U	10
Chloroform	10	U	10
Chloromethane	10	U	10
3-Chloro-1-propene	10	U	10
cis-1,3-Dichloropropene	10	U	10
1,2-Dibromo-3-Chloropropane	10	U	10
Dibromomethane	10	U	10
1,2-Dichlorobenzene	10	U	10
1,3-Dichlorobenzene	10	U	10
1,4-Dichlorobenzene	12		10
Dichlorobromomethane	10	U	10
Dichlorodifluoromethane	10	U	10
1,1-Dichloroethane	10	U	10
1,2-Dichloroethane	10	U	10
1,1-Dichloroethene	10	U	10
1,2-Dichloropropane	10	U	10
Ethylbenzene	10	U	10
Ethylene Dibromide	10	U	10
Ethyl methacrylate	10	U	10
2-Hexanone	100	U	100
Iodomethane	50	U	50
Isobutyl alcohol	400	U	400
Methacrylonitrile	200	U	200
Methylene Chloride	50	U	50
2-Butanone (MEK)	100	U	100
4-Methyl-2-pentanone (MIBK)	100	U	100
Methyl methacrylate	10	U	10
Pentachloroethane	50	U	50
Propionitrile	200	U	200
Styrene	10	U	10
1,1,1,2-Tetrachloroethane	10	U	10
1,1,2,2-Tetrachloroethane	10	U	10

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Client Sample ID: PMAMW01M-1207

Lab Sample ID: 680-33003-13

Date Sampled: 12/18/2007 1205

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-94956	Instrument ID:	GC/MS Volatiles - P
Preparation:	5030B		Lab File ID:	p5171.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	12/31/2007 1402		Final Weight/Volume:	5 mL
Date Prepared:	12/31/2007 1402			

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	10	U	10
Toluene	10	U	10
trans-1,4-Dichloro-2-butene	20	U	20
trans-1,2-Dichloroethene	10	U	10
trans-1,3-Dichloropropene	10	U	10
1,1,1-Trichloroethane	10	U	10
1,1,2-Trichloroethane	10	U	10
Trichloroethene	10	U	10
Trichlorofluoromethane	10	U	10
1,2,3-Trichloropropane	10	U	10
Vinyl acetate	20	U	20
Vinyl chloride	10	U	10
Xylenes, Total	20	U	20

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	90	75 - 120
Dibromofluoromethane	89	75 - 121
Toluene-d8 (Surr)	99	75 - 120

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Client Sample ID: PMAMW01S-1207

Lab Sample ID: 680-33003-15

Date Sampled: 12/18/2007 1400

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-94855	Instrument ID: GC/MS Volatiles - P
Preparation:	5030B		Lab File ID: p5141.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/29/2007 1657		Final Weight/Volume: 5 mL
Date Prepared:	12/29/2007 1657		

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	140		1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	15		1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	10		1.0
1,3-Dichlorobenzene	1.2		1.0
1,4-Dichlorobenzene	15		1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutyl alcohol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	10	U	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Client Sample ID: PMAMW01S-1207

Lab Sample ID: 680-33003-15

Date Sampled: 12/18/2007 1400

Client Matrix: Water

Date Received: 12/20/2007 1430

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-94855	Instrument ID:	GC/MS Volatiles - P
Preparation:	5030B		Lab File ID:	p5141.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	12/29/2007 1657		Final Weight/Volume:	5 mL
Date Prepared:	12/29/2007 1657			

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	75 - 120
Dibromofluoromethane	89	75 - 121
Toluene-d8 (Surr)	98	75 - 120

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2
Sdg Number: KPM013

Client Sample ID: PMAMW01M-1207

Lab Sample ID: 680-33003-13
Client Matrix: Water

Date Sampled: 12/18/2007 1205
Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method: 680	Analysis Batch: 680-96297	Instrument ID: No Equipment Assigned to
Preparation: 680	Prep Batch: 680-94373	Lab File ID: N/A
Dilution: 10		Initial Weight/Volume: 1060 mL
Date Analyzed: 01/16/2008 2018		Final Weight/Volume: 1 mL
Date Prepared: 12/21/2007 1700		Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.94	U	0.94
Dichlorobiphenyl	0.94	U	0.94
Trichlorobiphenyl	3.8		0.94
Tetrachlorobiphenyl	12		1.9
Pentachlorobiphenyl	8.2		1.9
Hexachlorobiphenyl	13		1.9
Heptachlorobiphenyl	11		2.8
Octachlorobiphenyl	2.8	U	2.8
Nonachlorobiphenyl	4.7	U	4.7
DCB Decachlorobiphenyl	4.7	U	4.7
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	0	D	25 - 113

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2
Sdg Number: KPM013

Client Sample ID: PMAMW01M-F-1207

Lab Sample ID: 680-33003-14
Client Matrix: Water

Date Sampled: 12/18/2007 1205
Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method: 680	Analysis Batch: 680-96297	Instrument ID: No Equipment Assigned to
Preparation: 680	Prep Batch: 680-94373	Lab File ID: N/A
Dilution: 10		Initial Weight/Volume: 1030 mL
Date Analyzed: 01/16/2008 2105		Final Weight/Volume: 1 mL
Date Prepared: 12/21/2007 1700		Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.97	U	0.97
Dichlorobiphenyl	0.97	U	0.97
Trichlorobiphenyl	5.0		0.97
Tetrachlorobiphenyl	13		1.9
Pentachlorobiphenyl	9.1		1.9
Hexachlorobiphenyl	14		1.9
Heptachlorobiphenyl	10		2.9
Octachlorobiphenyl	2.9	U	2.9
Nonachlorobiphenyl	4.9	U	4.9
DCB Decachlorobiphenyl	4.9	U	4.9
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	0	D	25 - 113

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2
Sdg Number: KPM013

Client Sample ID: PMAMW01S-1207

Lab Sample ID: 680-33003-15
Client Matrix: Water

Date Sampled: 12/18/2007 1400
Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method: 680	Analysis Batch: 680-96297	Instrument ID: No Equipment Assigned to
Preparation: 680	Prep Batch: 680-94373	Lab File ID: N/A
Dilution: 1.0		Initial Weight/Volume: 1030 mL
Date Analyzed: 01/16/2008 2151		Final Weight/Volume: 1 mL
Date Prepared: 12/21/2007 1700		Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.097	U	0.097
Dichlorobiphenyl	0.097	U	0.097
Trichlorobiphenyl	0.097	U	0.097
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.49	U	0.49
DCB Decachlorobiphenyl	0.49	U	0.49
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	75		25 - 113

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Client Sample ID: PMAMW01S-F-1207

Lab Sample ID: 680-33003-16

Date Sampled: 12/18/2007 1400

Client Matrix: Water

Date Received: 12/20/2007 1430

680 Polychlorinated Biphenyls by GCMS

Method: 680 Analysis Batch: 680-96297 Instrument ID: No Equipment Assigned to
Preparation: 680 Prep Batch: 680-94373 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 1060 mL
Date Analyzed: 01/16/2008 2237 Final Weight/Volume: 1 mL
Date Prepared: 12/21/2007 1700 Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.094	U	0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	72		25 - 113

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Client Sample ID: PMAMW01M-1207

Lab Sample ID: 680-33003-13

Date Sampled: 12/18/2007 1205

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94494	Lab File ID: t5117.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/16/2008 1728		Final Weight/Volume: 1 mL
Date Prepared:	12/24/2007 1633		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.4	U	9.4
Acenaphthylene	9.4	U	9.4
Acetophenone	9.4	U	9.4
2-Acetylaminofluorene	9.4	U	9.4
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.4	U	9.4
Aniline	19	U	19
Anthracene	9.4	U	9.4
Aramite, Total	9.4	U	9.4
Benzo[a]anthracene	9.4	U	9.4
Benzo[a]pyrene	9.4	U	9.4
Benzo[b]fluoranthene	9.4	U	9.4
Benzo[g,h,i]perylene	9.4	U	9.4
Benzo[k]fluoranthene	9.4	U	9.4
Benzyl alcohol	9.4	U	9.4
1,1'-Biphenyl	9.4	U	9.4
Bis(2-chloroethoxy)methane	9.4	U	9.4
Bis(2-chloroethyl)ether	9.4	U	9.4
bis(chloroisopropyl) ether	9.4	U	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	9.4
4-Bromophenyl phenyl ether	9.4	U	9.4
Butyl benzyl phthalate	9.4	U	9.4
4-Chloroaniline	62	U	19
4-Chloro-3-methylphenol	9.4	U	9.4
2-Chloronaphthalene	9.4	U	9.4
2-Chlorophenol	9.4	U	9.4
4-Chlorophenyl phenyl ether	9.4	U	9.4
Chrysene	9.4	U	9.4
Diallate	9.4	U	9.4
Dibenz(a,h)anthracene	9.4	U	9.4
Dibenzofuran	9.4	U	9.4
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.4	U	9.4
2,6-Dichlorophenol	9.4	U	9.4
Diethyl phthalate	9.4	U	9.4
Dimethoate	9.4	U	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	9.4
3,3'-Dimethylbenzidine	19	U	19
2,4-Dimethylphenol	9.4	U	9.4
Dimethyl phthalate	9.4	U	9.4
Di-n-butyl phthalate	9.4	U	9.4
1,3-Dinitrobenzene	9.4	U	9.4
4,6-Dinitro-2-methylphenol	47	U	47
2,4-Dinitrophenol	47	U	47

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Client Sample ID: PMAMW01M-1207

Lab Sample ID: 680-33003-13

Date Sampled: 12/18/2007 1205

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94494	Lab File ID: t5117.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/16/2008 1728		Final Weight/Volume: 1 mL
Date Prepared:	12/24/2007 1633		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	9.4	U	9.4
2,6-Dinitrotoluene	9.4	U	9.4
Di-n-octyl phthalate	9.4	U	9.4
Dinoseb	9.4	U	9.4
1,4-Dioxane	9.4	U	9.4
Disulfoton	9.4	U	9.4
Ethyl methanesulfonate	9.4	U	9.4
Famphur	9.4	U	9.4
Fluoranthene	9.4	U	9.4
Fluorene	9.4	U	9.4
Hexachlorobenzene	9.4	U	9.4
Hexachlorobutadiene	9.4	U	9.4
Hexachlorocyclopentadiene	9.4	U	9.4
Hexachloroethane	9.4	U	9.4
Hexachlorophene	4700	U	4700
Hexachloropropene	9.4	U	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	9.4
Isophorone	9.4	U	9.4
Isosafrole	9.4	U	9.4
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.4	U	9.4
Methyl methanesulfonate	9.4	U	9.4
2-Methylnaphthalene	9.4	U	9.4
Methyl parathion	9.4	U	9.4
2-Methylphenol	9.4	U	9.4
3 & 4 Methylphenol	9.4	U	9.4
Naphthalene	9.4	U	9.4
1,4-Naphthoquinone	9.4	U	9.4
1-Naphthylamine	9.4	U	9.4
2-Naphthylamine	9.4	U	9.4
2-Nitroaniline	47	U	47
3-Nitroaniline	47	U	47
4-Nitroaniline	47	U	47
Nitrobenzene	9.4	U	9.4
2-Nitrophenol	9.4	U	9.4
4-Nitrophenol	47	U	47
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.4	U	9.4
N-Nitrosodiethylamine	9.4	U	9.4
N-Nitrosodimethylamine	9.4	U	9.4
N-Nitrosodi-n-butylamine	9.4	U	9.4
N-Nitrosodi-n-propylamine	9.4	U	9.4
N-Nitrosodiphenylamine	9.4	U	9.4
N-Nitrosomethylethylamine	9.4	U	9.4

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Client Sample ID: PMAMW01M-1207

Lab Sample ID: 680-33003-13

Date Sampled: 12/18/2007 1205

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94494	Lab File ID: t5117.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/16/2008 1728		Final Weight/Volume: 1 mL
Date Prepared:	12/24/2007 1633		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.4	U	9.4
N-Nitrosopiperidine	9.4	U	9.4
N-Nitrosopyrrolidine	9.4	U	9.4
o,o',o"-Triethylphosphorothioate	9.4	U	9.4
Ethyl Parathion	9.4	U	9.4
p-Dimethylamino azobenzene	9.4	U	9.4
Pentachlorobenzene	9.4	U	9.4
Pentachloronitrobenzene	9.4	U	9.4
Pentachlorophenol	47	U	47
Phenacetin	9.4	U	9.4
Phenanthrene	9.4	U	9.4
Phenol	20		9.4
Phorate	9.4	U	9.4
2-Picoline	9.4	U	9.4
p-Phenylene diamine	1900	U	1900
Pronamide	9.4	U	9.4
Pyrene	9.4	U	9.4
Pyridine	47	U	47
Safrole, Total	9.4	U	9.4
Sulfotepp	9.4	U	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	9.4
Thionazin	9.4	U	9.4
2-Toluidine	9.4	U	9.4
1,2,4-Trichlorobenzene	9.4	U	9.4
2,4,5-Trichlorophenol	9.4	U	9.4
2,4,6-Trichlorophenol	9.4	U	9.4
1,3,5-Trinitrobenzene	9.4	U	9.4
1-Chloro-3-nitrobenzene	9.4	U	9.4
2-Nitrobiphenyl	9.4	U	9.4
2,4-Dichloronitrobenzene	9.4	U	9.4
3-Nitrobiphenyl	9.4	U	9.4
3,4-Dichloronitrobenzene	9.4	U	9.4
4-Nitrobiphenyl	9.4	U	9.4
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	86	50 - 113
2-Fluorophenol	73	36 - 110
Nitrobenzene-d5	87	45 - 112
Phenol-d5	77	38 - 116
Terphenyl-d14	47	10 - 121
2,4,6-Tribromophenol	102	40 - 139

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Client Sample ID: PMAMW01S-1207

Lab Sample ID: 680-33003-15

Date Sampled: 12/18/2007 1400

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94494	Lab File ID: t5118.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/16/2008 1752		Final Weight/Volume: 1 mL
Date Prepared:	12/24/2007 1633		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.4	U	9.4
Acenaphthylene	9.4	U	9.4
Acetophenone	9.4	U	9.4
2-Acetylaminofluorene	9.4	U	9.4
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.4	U	9.4
Aniline	19	U	19
Anthracene	9.4	U	9.4
Aramite, Total	9.4	U	9.4
Benzo[a]anthracene	9.4	U	9.4
Benzo[a]pyrene	9.4	U	9.4
Benzo[b]fluoranthene	9.4	U	9.4
Benzo[g,h,i]perylene	9.4	U	9.4
Benzo[k]fluoranthene	9.4	U	9.4
Benzyl alcohol	9.4	U	9.4
1,1'-Biphenyl	9.4	U	9.4
Bis(2-chloroethoxy)methane	9.4	U	9.4
Bis(2-chloroethyl)ether	9.4	U	9.4
bis(chloroisopropyl) ether	9.4	U	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	9.4
4-Bromophenyl phenyl ether	9.4	U	9.4
Butyl benzyl phthalate	9.4	U	9.4
4-Chloroaniline	19	U	19
4-Chloro-3-methylphenol	9.4	U	9.4
2-Chloronaphthalene	9.4	U	9.4
2-Chlorophenol	9.4	U	9.4
4-Chlorophenyl phenyl ether	9.4	U	9.4
Chrysene	9.4	U	9.4
Diallate	9.4	U	9.4
Dibenz(a,h)anthracene	9.4	U	9.4
Dibenzofuran	9.4	U	9.4
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.4	U	9.4
2,6-Dichlorophenol	9.4	U	9.4
Diethyl phthalate	9.4	U	9.4
Dimethoate	9.4	U	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	9.4
3,3'-Dimethylbenzidine	19	U	19
2,4-Dimethylphenol	9.4	U	9.4
Dimethyl phthalate	9.4	U	9.4
Di-n-butyl phthalate	9.4	U	9.4
1,3-Dinitrobenzene	9.4	U	9.4
4,6-Dinitro-2-methylphenol	47	U	47
2,4-Dinitrophenol	47	U	47

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Client Sample ID: PMAMW01S-1207

Lab Sample ID: 680-33003-15

Date Sampled: 12/18/2007 1400

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94494	Lab File ID: t5118.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/16/2008 1752		Final Weight/Volume: 1 mL
Date Prepared:	12/24/2007 1633		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	9.4	U	9.4
2,6-Dinitrotoluene	9.4	U	9.4
Di-n-octyl phthalate	9.4	U	9.4
Dinoseb	9.4	U	9.4
1,4-Dioxane	9.4	U	9.4
Disulfoton	9.4	U	9.4
Ethyl methanesulfonate	9.4	U	9.4
Famphur	9.4	U	9.4
Fluoranthene	9.4	U	9.4
Fluorene	9.4	U	9.4
Hexachlorobenzene	9.4	U	9.4
Hexachlorobutadiene	9.4	U	9.4
Hexachlorocyclopentadiene	9.4	U	9.4
Hexachloroethane	9.4	U	9.4
Hexachlorophene	4700	U	4700
Hexachloropropene	9.4	U	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	9.4
Isophorone	9.4	U	9.4
Isosafrole	9.4	U	9.4
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.4	U	9.4
Methyl methanesulfonate	9.4	U	9.4
2-Methylnaphthalene	9.4	U	9.4
Methyl parathion	9.4	U	9.4
2-Methylphenol	9.4	U	9.4
3 & 4 Methylphenol	9.4	U	9.4
Naphthalene	9.4	U	9.4
1,4-Naphthoquinone	9.4	U	9.4
1-Naphthylamine	9.4	U	9.4
2-Naphthylamine	9.4	U	9.4
2-Nitroaniline	47	U	47
3-Nitroaniline	47	U	47
4-Nitroaniline	47	U	47
Nitrobenzene	9.4	U	9.4
2-Nitrophenol	9.4	U	9.4
4-Nitrophenol	47	U	47
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.4	U	9.4
N-Nitrosodiethylamine	9.4	U	9.4
N-Nitrosodimethylamine	9.4	U	9.4
N-Nitrosodi-n-butylamine	9.4	U	9.4
N-Nitrosodi-n-propylamine	9.4	U	9.4
N-Nitrosodiphenylamine	9.4	U	9.4
N-Nitrosomethylethylamine	9.4	U	9.4

Analytical Data

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Client Sample ID: PMAMW01S-1207

Lab Sample ID: 680-33003-15

Date Sampled: 12/18/2007 1400

Client Matrix: Water

Date Received: 12/20/2007 1430

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3520C	Prep Batch: 680-94494	Lab File ID: t5118.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	01/16/2008 1752		Final Weight/Volume: 1 mL
Date Prepared:	12/24/2007 1633		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.4	U	9.4
N-Nitrosopiperidine	9.4	U	9.4
N-Nitrosopyrrolidine	9.4	U	9.4
o,o',o"-Triethylphosphorothioate	9.4	U	9.4
Ethyl Parathion	9.4	U	9.4
p-Dimethylamino azobenzene	9.4	U	9.4
Pentachlorobenzene	9.4	U	9.4
Pentachloronitrobenzene	9.4	U	9.4
Pentachlorophenol	47	U	47
Phenacetin	9.4	U	9.4
Phenanthrene	9.4	U	9.4
Phenol	9.4	U	9.4
Phorate	9.4	U	9.4
2-Picoline	9.4	U	9.4
p-Phenylene diamine	1900	U	1900
Pronamide	9.4	U	9.4
Pyrene	9.4	U	9.4
Pyridine	47	U	47
Safrole, Total	9.4	U	9.4
Sulfotepp	9.4	U	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	9.4
Thionazin	9.4	U	9.4
2-Toluidine	9.4	U	9.4
1,2,4-Trichlorobenzene	9.4	U	9.4
2,4,5-Trichlorophenol	9.4	U	9.4
2,4,6-Trichlorophenol	9.4	U	9.4
1,3,5-Trinitrobenzene	9.4	U	9.4
1-Chloro-3-nitrobenzene	9.4	U	9.4
2-Nitrobiphenyl	9.4	U	9.4
2,4-Dichloronitrobenzene	9.4	U	9.4
3-Nitrobiphenyl	9.4	U	9.4
3,4-Dichloronitrobenzene	9.4	U	9.4
4-Nitrobiphenyl	9.4	U	9.4
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	86	50 - 113
2-Fluorophenol	74	36 - 110
Nitrobenzene-d5	88	45 - 112
Phenol-d5	77	38 - 116
Terphenyl-d14	74	10 - 121
2,4,6-Tribromophenol	97	40 - 139

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 680-33003-2

Sdg Number: KPM013

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	RPD of the MS and MSD exceeds the control limits
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

SDG KPM014

Results of Samples from Wells:

PMAMW04S (DNAPL)

Solutia Krummrich Data Review

Laboratory SDG: KPM014

Reviewer: Tony Sedlacek

Date Reviewed: 2/13/2008

Guidance: USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA 1999).

Applicable Work Plan: PCB Mobility and Migration Investigation (URS 2005)

Sample Identification #
PMAMW4S-1207-DNAPL

1.0 Data Package Completeness

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

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 PCB and SVOC surrogates were diluted out and not recovered. SVOC samples PMAMW4S-1207-DNAPL and PMAMW4S-1207-DNAPL DL were extracted outside holding time criteria. VOC, SVOC and PCB samples were diluted due to a high level of target analytes. In addition, the PCB internal standard chrysene-d₁₂ was recovered below evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form did not indicate any problems.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

No, samples PMAMW4S-1207-DNAPL and PMAMW4S-1207-DNAPL DL were extracted for SVOC analysis approximately 3 hours outside holding time criteria (14 days). Since the sample contained dense nonaqueous phase liquid (DNAPL), extraction outside of holding time had little effect on the data. No qualification of

data was required.

Field ID	Parameter	Analyte	Qualification
N/A			

4.0 Blank Contamination

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

No

Blank ID	Parameter	Analyte	Concentration	Units
N/A				

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
N/A				

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD/RPD Criteria
N/A					

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
N/A			

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No, PCB surrogate Decachlorobiphenyl-13C12 and all SVOC surrogates were diluted out and not recovered in sample PMAMW4S-1207-DNAPL. No qualification of data was required.

Field ID	Parameter	Surrogate	Recovery	Criteria
N/A				

Analytical data that required qualification based on surrogate data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

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

No

Were MS/MSD recoveries within evaluation criteria?

N/A

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
N/A					

Analytical data that required qualification based on MS/MSD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
N/A			

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

No

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
PMAMW4S-1207	PCBs	Chrysene-d ₁₂	14935	15098-28040

Analytical data that required qualification based on IS data are included in the table below. Internal standard areas for chrysene-d₁₂ recovered within the initial calibration average internal standard area for sample PMAMW4S-1207; therefore, no qualification of data was required.

Field ID	Parameter	Analyte	Qualification
N/A			

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

Field ID	Field Duplicate ID
N/A	

Were field duplicates within evaluation criteria?

N/A

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

11.0 Sample Dilutions

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

No

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run *was not* reported:

Field ID	Parameter	Dilution Factor
PMAMW4S-1207-DNAPL	VOCs	5000
PMAMW4S-1207-DNAPL	PCBs	10000
PMAMW4S-1207-DNAPL	SVOCs	10

12.0 Additional Qualifications

Were additional qualifications applied?

No

ANALYTICAL REPORT

Job Number: 680-33033-2

SDG Number: KPM014

Job Description: WGK PCB Mobility MW04S DNAPL 4Q07

For:

URS Corporation
1001 Highlands Plaza Drive West
Suite 300
St. Louis, MO 63110

Attention: Mr. Bob Billman



Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
01/29/2008

cc: Mr. Bruce Yare

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report.

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404

Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com



Job Narrative
680-J33033-2 / SDG No. KPM014

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The following sample(s) was diluted due to the abundance of non-target analytes: PMAMW4S-1207-DNAPL (680-33033-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 680 / 3580: The following sample(s) was prepared outside of preparation holding time: PMAMW4S-1207-DNAPL (680-33033-4).

Method(s) 680: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: PMAMW4S-1207-DNAPL (680-33033-4).

Method(s) 680: Samples brought to a final volume of 1.0mL

Method(s) 8270C: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: PMAMW4S-1207-DNAPL (680-33033-4).

Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: PMAMW4S-1207-DNAPL (680-33033-4). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The surrogate recovery for the blank and LCS associated with batch 95164 was above recovery limits. Data reported.

No other analytical or quality issues were noted.

Comments

No additional comments.

METHOD SUMMARY

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Description		Lab Location	Method	Preparation Method
Matrix	Waste			
Volatile Organic Compounds by GC/MS		TAL SAV	SW846 8260B	
Purge and Trap for Methanol Extractions		TAL SAV		SW846 5030B
Polychlorinated Biphenyls by GCMS		TAL SAV	EPA 680	
PCB by Method 680 Waste Preparation		TAL SAV		EPA 680
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)		TAL SAV	SW846 8270C	
Waste Dilution		TAL SAV		SW846 3580A

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Method	Analyst	Analyst ID
SW846 8260B	LeSeane, Latika Rene	LL
EPA 680	Johnson, Brad	BJ
SW846 8270C	Johnson, Brad	BJ
SW846 8270C	Loomis, Eric	EL

SAMPLE SUMMARY

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-33033-4	PMAMW4S-1207-DNAPL	Waste	12/20/2007 1020	12/21/2007 1330

SAMPLE RESULTS

Analytical Data

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Client Sample ID: PMAMW4S-1207-DNAPL

Lab Sample ID: 680-33033-4

Date Sampled: 12/20/2007 1020

Client Matrix: Waste

Date Received: 12/21/2007 1330

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch: 680-95144	Instrument ID: GC/MS Volatiles - L
Preparation:	5030B-Medium	Prep Batch: 680-95191	Lab File ID: I0012.d
Dilution:	5000		Initial Weight/Volume: 1 g
Date Analyzed:	01/03/2008 2209		Final Weight/Volume: 10 mL
Date Prepared:	01/03/2008 1200		

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Acetone		2500000	U	2500000
Acetonitrile		10000000	U	10000000
Acrolein		5000000	U	5000000
Acrylonitrile		5000000	U	5000000
Benzene		250000	U	250000
Dichlorobromomethane		250000	U	250000
Bromoform		250000	U	250000
Bromomethane		250000	U	250000
2-Butanone (MEK)		1300000	U	1300000
Carbon disulfide		250000	U	250000
Carbon tetrachloride		250000	U	250000
Chlorobenzene		720000	U	250000
Chloroethane		250000	U	250000
Chloroform		250000	U	250000
Chloromethane		250000	U	250000
2-Chloro-1,3-butadiene		250000	U	250000
3-Chloro-1-propene		250000	U	250000
Chlorodibromomethane		250000	U	250000
1,2-Dibromo-3-Chloropropane		500000	U	500000
Ethylene Dibromide		250000	U	250000
Dibromomethane		250000	U	250000
trans-1,4-Dichloro-2-butene		500000	U	500000
Dichlorodifluoromethane		250000	U	250000
1,1-Dichloroethane		250000	U	250000
1,2-Dichloroethane		250000	U	250000
1,1-Dichloroethene		250000	U	250000
trans-1,2-Dichloroethene		250000	U	250000
1,2-Dichloropropane		250000	U	250000
cis-1,3-Dichloropropene		250000	U	250000
trans-1,3-Dichloropropene		250000	U	250000
Ethylbenzene		250000	U	250000
Ethyl methacrylate		250000	U	250000
2-Hexanone		1300000	U	1300000
Iodomethane		250000	U	250000
Isobutyl alcohol		10000000	U	10000000
Methacrylonitrile		5000000	U	5000000
Methylene Chloride		250000	U	250000
Methyl methacrylate		250000	U	250000
4-Methyl-2-pentanone (MIBK)		1300000	U	1300000
Pentachloroethane		1300000	U	1300000
Propionitrile		5000000	U	5000000
Styrene		250000	U	250000
1,1,1,2-Tetrachloroethane		250000	U	250000
1,1,2,2-Tetrachloroethane		250000	U	250000

Analytical Data

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Client Sample ID: PMAMW4S-1207-DNAPL

Lab Sample ID: 680-33033-4

Date Sampled: 12/20/2007 1020

Client Matrix: Waste

Date Received: 12/21/2007 1330

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 680-95144 Instrument ID: GC/MS Volatiles - L
Preparation: 5030B-Medium Prep Batch: 680-95191 Lab File ID: I0012.d
Dilution: 5000 Initial Weight/Volume: 1 g
Date Analyzed: 01/03/2008 2209 Final Weight/Volume: 10 mL
Date Prepared: 01/03/2008 1200

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Tetrachloroethene		250000	U	250000
Toluene		250000	U	250000
1,1,1-Trichloroethane		250000	U	250000
1,1,2-Trichloroethane		250000	U	250000
Trichloroethene		250000	U	250000
Trichlorofluoromethane		250000	U	250000
1,2,3-Trichloropropane		250000	U	250000
Vinyl acetate		500000	U	500000
Vinyl chloride		250000	U	250000
Xylenes, Total		500000	U	500000
Surrogate		%Rec		Acceptance Limits
4-Bromofluorobenzene		109		65 - 124
Dibromofluoromethane		100		65 - 124
Toluene-d8 (Surr)		94		65 - 132

Analytical Data

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Client Sample ID: PMAMW4S-1207-DNAPL

Lab Sample ID: 680-33033-4

Date Sampled: 12/20/2007 1020

Client Matrix: Waste

Date Received: 12/21/2007 1330

680 Polychlorinated Biphenyls by GCMS

Method: 680	Analysis Batch: 680-96682	Instrument ID: No Equipment Assigned to
Preparation: 680	Prep Batch: 680-95165	Lab File ID: N/A
Dilution: 10000		Initial Weight/Volume: 1.36 g
Date Analyzed: 01/24/2008 1247		Final Weight/Volume: 1 mL
Date Prepared: 01/04/2008 1315		Injection Volume:

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Monochlorobiphenyl		730000	U H	730000
Dichlorobiphenyl		2700000	H	730000
Trichlorobiphenyl		15000000	H	730000
Tetrachlorobiphenyl		36000000	H	1500000
Pentachlorobiphenyl		25000000	H	1500000
Hexachlorobiphenyl		39000000	H	1500000
Heptachlorobiphenyl		32000000	H	2200000
Octachlorobiphenyl		4300000	H	2200000
Nonachlorobiphenyl		3800000	U H	3800000
DCB Decachlorobiphenyl		3800000	U H	3800000
Surrogate		%Rec		Acceptance Limits
Decachlorobiphenyl-13C12		0	D	30 - 130

Analytical Data

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Client Sample ID: PMAMW4S-1207-DNAPL

Lab Sample ID: 680-33033-4

Date Sampled: 12/20/2007 1020

Client Matrix: Waste

Date Received: 12/21/2007 1330

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3580A	Prep Batch: 680-95164	Lab File ID: t5126.d
Dilution:	10		Initial Weight/Volume: 1.32 g
Date Analyzed:	01/16/2008 2100		Final Weight/Volume: 10 mL
Date Prepared:	01/04/2008 1315		Injection Volume: 1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Acenaphthene		750000	U H	750000
Acenaphthylene		750000	U H	750000
Acetophenone		750000	U H	750000
2-Acetylaminofluorene		750000	U H	750000
alpha,alpha-Dimethyl phenethylamine		15000000	U H	15000000
4-Aminobiphenyl		750000	U H	750000
Aniline		1500000	U H	1500000
Anthracene		750000	U H	750000
Aramite, Total		750000	U H	750000
Benzo[a]anthracene		750000	U H	750000
Benzo[a]pyrene		750000	U H	750000
Benzo[b]fluoranthene		750000	U H	750000
Benzo[g,h,i]perylene		750000	U H	750000
Benzo[k]fluoranthene		750000	U H	750000
Benzyl alcohol		750000	U H	750000
1,1'-Biphenyl		750000	U H	750000
Bis(2-chloroethoxy)methane		750000	U H	750000
Bis(2-chloroethyl)ether		750000	U H	750000
bis(chloroisopropyl) ether		750000	U H	750000
Bis(2-ethylhexyl) phthalate		750000	U H	750000
4-Bromophenyl phenyl ether		750000	U H	750000
Butyl benzyl phthalate		750000	U H	750000
4-Chloroaniline		1500000	U H	1500000
4-Chloro-3-methylphenol		750000	U H	750000
2-Chloronaphthalene		750000	U H	750000
2-Chlorophenol		750000	U H	750000
4-Chlorophenyl phenyl ether		750000	U H	750000
Chrysene		750000	U H	750000
Diallate		750000	U H	750000
Dibenz(a,h)anthracene		750000	U H	750000
Dibenzofuran		750000	U H	750000
1,2-Dichlorobenzene		1300000	H	750000
1,3-Dichlorobenzene		840000	H	750000
1,4-Dichlorobenzene		3000000	H	750000
3,3'-Dichlorobenzidine		1500000	U H	1500000
2,4-Dichlorophenol		750000	U H	750000
2,6-Dichlorophenol		750000	U H	750000
Diethyl phthalate		750000	U H	750000
Dimethoate		750000	U H	750000
7,12-Dimethylbenz(a)anthracene		750000	U H	750000
3,3'-Dimethylbenzidine		3900000	U H	3900000
2,4-Dimethylphenol		750000	U H	750000
Dimethyl phthalate		750000	U H	750000
Di-n-butyl phthalate		750000	U H	750000

Analytical Data

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Client Sample ID: PMAMW4S-1207-DNAPL

Lab Sample ID: 680-33033-4

Date Sampled: 12/20/2007 1020

Client Matrix: Waste

Date Received: 12/21/2007 1330

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID:	GC/MS SemiVolatiles - T
Preparation:	3580A	Prep Batch: 680-95164	Lab File ID:	t5126.d
Dilution:	10		Initial Weight/Volume:	1.32 g
Date Analyzed:	01/16/2008 2100		Final Weight/Volume:	10 mL
Date Prepared:	01/04/2008 1315		Injection Volume:	1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
1,3-Dinitrobenzene		750000	U H	750000
4,6-Dinitro-2-methylphenol		3900000	U H	3900000
2,4-Dinitrophenol		3900000	U H	3900000
2,4-Dinitrotoluene		750000	U H	750000
2,6-Dinitrotoluene		750000	U H	750000
Di-n-octyl phthalate		750000	U H	750000
Dinoseb		750000	U H	750000
1,4-Dioxane		750000	U H	750000
Disulfoton		750000	U H	750000
Ethyl methanesulfonate		750000	U H	750000
Famphur		750000	U H	750000
Fluoranthene		750000	U H	750000
Fluorene		750000	U H	750000
Hexachlorobenzene		750000	U H	750000
Hexachlorobutadiene		750000	U H	750000
Hexachlorocyclopentadiene		750000	U H	750000
Hexachloroethane		750000	U H	750000
Hexachlorophene		390000000	U H	390000000
Hexachloropropene		750000	U H	750000
Indeno[1,2,3-cd]pyrene		750000	U H	750000
Isophorone		750000	U H	750000
Isosafrole		750000	U H	750000
Methapyrilene		15000000	U H	15000000
3-Methylcholanthrene		750000	U H	750000
Methyl methanesulfonate		750000	U H	750000
2-Methylnaphthalene		750000	U H	750000
Methyl parathion		750000	U H	750000
2-Methylphenol		750000	U H	750000
3 & 4 Methylphenol		750000	U H	750000
Naphthalene		750000	U H	750000
1,4-Naphthoquinone		750000	U H	750000
1-Naphthylamine		750000	U H	750000
2-Naphthylamine		750000	U H	750000
2-Nitroaniline		3900000	U H	3900000
3-Nitroaniline		3900000	U H	3900000
4-Nitroaniline		3900000	U H	3900000
Nitrobenzene		750000	U H	750000
2-Nitrophenol		750000	U H	750000
4-Nitrophenol		3900000	U H	3900000
4-Nitroquinoline-1-oxide		7500000	U H	7500000
N-Nitro-o-toluidine		750000	U H	750000
N-Nitrosodiethylamine		750000	U H	750000
N-Nitrosodimethylamine		750000	U H	750000
N-Nitrosodi-n-butylamine		750000	U H	750000

Analytical Data

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Client Sample ID: PMAMW4S-1207-DNAPL

Lab Sample ID: 680-33033-4

Date Sampled: 12/20/2007 1020

Client Matrix: Waste

Date Received: 12/21/2007 1330

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96162	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3580A	Prep Batch: 680-95164	Lab File ID: t5126.d
Dilution:	10		Initial Weight/Volume: 1.32 g
Date Analyzed:	01/16/2008 2100		Final Weight/Volume: 10 mL
Date Prepared:	01/04/2008 1315		Injection Volume: 1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Nitrosodi-n-propylamine		750000	U H	750000
N-Nitrosodiphenylamine		750000	U H	750000
N-Nitrosomethylethylamine		750000	U H	750000
N-Nitrosomorpholine		750000	U H	750000
N-Nitrosopiperidine		750000	U H	750000
N-Nitrosopyrrolidine		750000	U H	750000
o,o',o"-Triethylphosphorothioate		750000	U H	750000
Ethyl Parathion		750000	U H	750000
p-Dimethylamino azobenzene		750000	U H	750000
Pentachlorobenzene		6500000	H	750000
Pentachloronitrobenzene		750000	U H	750000
Pentachlorophenol		3900000	U H	3900000
Phenacetin		750000	U H	750000
Phenanthrene		750000	U H	750000
Phenol		750000	U H	750000
Phorate		750000	U H	750000
2-Picoline		750000	U H	750000
p-Phenylene diamine		3900000	U H	3900000
Pronamide		750000	U H	750000
Pyrene		750000	U H	750000
Pyridine		750000	U H	750000
Safrole, Total		750000	U H	750000
Sulfotepp		750000	U H	750000
1,2,4,5-Tetrachlorobenzene		750000	U H	750000
2,3,4,6-Tetrachlorophenol		750000	U H	750000
Thionazin		750000	U H	750000
2-Toluidine		750000	U H	750000
1,2,4-Trichlorobenzene		79000000	H E	750000
2,4,5-Trichlorophenol		750000	U H	750000
2,4,6-Trichlorophenol		750000	U H	750000
1,3,5-Trinitrobenzene		750000	U H	750000
1-Chloro-3-nitrobenzene		750000	U H	750000
2,4-Dichloronitrobenzene		750000	U H	750000
3,4-Dichloronitrobenzene		750000	U H	750000
2-Nitrobiphenyl		750000	U H	750000
3-Nitrobiphenyl		750000	U H	750000
4-Nitrobiphenyl		750000	U H	750000
2-chloronitrobenzene / 4-chloronitrobenzene		1500000	U H	1500000

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	0	D 44 - 110
2-Fluorophenol	0	D 41 - 110
Nitrobenzene-d5	0	D 36 - 110
Phenol-d5	0	D 43 - 110

Analytical Data

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Client Sample ID: PMAMW4S-1207-DNAPL

Lab Sample ID: 680-33033-4

Date Sampled: 12/20/2007 1020

Client Matrix: Waste

Date Received: 12/21/2007 1330

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Analysis Batch: 680-96162

Instrument ID: GC/MS SemiVolatiles - T

Preparation: 3580A

Prep Batch: 680-95164

Lab File ID: t5126.d

Dilution: 10

Initial Weight/Volume: 1.32 g

Date Analyzed: 01/16/2008 2100

Final Weight/Volume: 10 mL

Date Prepared: 01/04/2008 1315

Injection Volume: 1 uL

Surrogate	%Rec		Acceptance Limits
Terphenyl-d14	0	D	10 - 112
2,4,6-Tribromophenol	0	D	36 - 128

Analytical Data

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Client Sample ID: PMAMW4S-1207-DNAPL

Lab Sample ID: 680-33033-4

Date Sampled: 12/20/2007 1020

Client Matrix: Waste

Date Received: 12/21/2007 1330

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96500	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3580A	Prep Batch: 680-95164	Lab File ID: t5221a.d
Dilution:	100		Initial Weight/Volume: 1.32 g
Date Analyzed:	01/23/2008 1211	Run Type: DL	Final Weight/Volume: 10 mL
Date Prepared:	01/04/2008 1315		Injection Volume: 1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Acenaphthene		7500000	U H	7500000
Acenaphthylene		7500000	U H	7500000
Acetophenone		7500000	U H	7500000
2-Acetylaminofluorene		7500000	U H	7500000
alpha,alpha-Dimethyl phenethylamine		150000000	U H	150000000
4-Aminobiphenyl		7500000	U H	7500000
Aniline		15000000	U H	15000000
Anthracene		7500000	U H	7500000
Aramite, Total		7500000	U H	7500000
Benzo[a]anthracene		7500000	U H	7500000
Benzo[a]pyrene		7500000	U H	7500000
Benzo[b]fluoranthene		7500000	U H	7500000
Benzo[g,h,i]perylene		7500000	U H	7500000
Benzo[k]fluoranthene		7500000	U H	7500000
Benzyl alcohol		7500000	U H	7500000
1,1'-Biphenyl		7500000	U H	7500000
Bis(2-chloroethoxy)methane		7500000	U H	7500000
Bis(2-chloroethyl)ether		7500000	U H	7500000
bis(chloroisopropyl) ether		7500000	U H	7500000
Bis(2-ethylhexyl) phthalate		7500000	U H	7500000
4-Bromophenyl phenyl ether		7500000	U H	7500000
Butyl benzyl phthalate		7500000	U H	7500000
4-Chloroaniline		15000000	U H	15000000
4-Chloro-3-methylphenol		7500000	U H	7500000
2-Chloronaphthalene		7500000	U H	7500000
2-Chlorophenol		7500000	U H	7500000
4-Chlorophenyl phenyl ether		7500000	U H	7500000
Chrysene		7500000	U H	7500000
Diallate		7500000	U H	7500000
Dibenz(a,h)anthracene		7500000	U H	7500000
Dibenzofuran		7500000	U H	7500000
1,2-Dichlorobenzene		7500000	U H	7500000
1,3-Dichlorobenzene		7500000	U H	7500000
1,4-Dichlorobenzene		7500000	U H	7500000
3,3'-Dichlorobenzidine		15000000	U H	15000000
2,4-Dichlorophenol		7500000	U H	7500000
2,6-Dichlorophenol		7500000	U H	7500000
Diethyl phthalate		7500000	U H	7500000
Dimethoate		7500000	U H	7500000
7,12-Dimethylbenz(a)anthracene		7500000	U H	7500000
3,3'-Dimethylbenzidine		39000000	U H	39000000
2,4-Dimethylphenol		7500000	U H	7500000
Dimethyl phthalate		7500000	U H	7500000
Di-n-butyl phthalate		7500000	U H	7500000

Analytical Data

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Client Sample ID: PMAMW4S-1207-DNAPL

Lab Sample ID: 680-33033-4

Date Sampled: 12/20/2007 1020

Client Matrix: Waste

Date Received: 12/21/2007 1330

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96500	Instrument ID: GC/MS SemiVolatiles - T
Preparation:	3580A	Prep Batch: 680-95164	Lab File ID: t5221a.d
Dilution:	100		Initial Weight/Volume: 1.32 g
Date Analyzed:	01/23/2008 1211	Run Type: DL	Final Weight/Volume: 10 mL
Date Prepared:	01/04/2008 1315		Injection Volume: 1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
1,3-Dinitrobenzene		7500000	U H	7500000
4,6-Dinitro-2-methylphenol		39000000	U H	39000000
2,4-Dinitrophenol		39000000	U H	39000000
2,4-Dinitrotoluene		7500000	U H	7500000
2,6-Dinitrotoluene		7500000	U H	7500000
Di-n-octyl phthalate		7500000	U H	7500000
Dinoseb		7500000	U H	7500000
1,4-Dioxane		7500000	U H	7500000
Disulfoton		7500000	U H	7500000
Ethyl methanesulfonate		7500000	U H	7500000
Famphur		7500000	U H	7500000
Fluoranthene		7500000	U H	7500000
Fluorene		7500000	U H	7500000
Hexachlorobenzene		7500000	U H	7500000
Hexachlorobutadiene		7500000	U H	7500000
Hexachlorocyclopentadiene		7500000	U H	7500000
Hexachloroethane		7500000	U H	7500000
Hexachlorophene		3900000000	U H	3900000000
Hexachloropropene		7500000	U H	7500000
Indeno[1,2,3-cd]pyrene		7500000	U H	7500000
Isophorone		7500000	U H	7500000
Isosafrole		7500000	U H	7500000
Methapyrilene		150000000	U H	150000000
3-Methylcholanthrene		7500000	U H	7500000
Methyl methanesulfonate		7500000	U H	7500000
2-Methylnaphthalene		7500000	U H	7500000
Methyl parathion		7500000	U H	7500000
2-Methylphenol		7500000	U H	7500000
3 & 4 Methylphenol		7500000	U H	7500000
Naphthalene		7500000	U H	7500000
1,4-Naphthoquinone		7500000	U H	7500000
1-Naphthylamine		7500000	U H	7500000
2-Naphthylamine		7500000	U H	7500000
2-Nitroaniline		39000000	U H	39000000
3-Nitroaniline		39000000	U H	39000000
4-Nitroaniline		39000000	U H	39000000
Nitrobenzene		7500000	U H	7500000
2-Nitrophenol		7500000	U H	7500000
4-Nitrophenol		39000000	U H	39000000
4-Nitroquinoline-1-oxide		75000000	U H	75000000
N-Nitro-o-toluidine		7500000	U H	7500000
N-Nitrosodiethylamine		7500000	U H	7500000
N-Nitrosodimethylamine		7500000	U H	7500000
N-Nitrosodi-n-butylamine		7500000	U H	7500000

Analytical Data

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Client Sample ID: PMAMW4S-1207-DNAPL

Lab Sample ID: 680-33033-4

Date Sampled: 12/20/2007 1020

Client Matrix: Waste

Date Received: 12/21/2007 1330

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96500	Instrument ID:	GC/MS SemiVolatiles - T
Preparation:	3580A	Prep Batch: 680-95164	Lab File ID:	t5221a.d
Dilution:	100		Initial Weight/Volume:	1.32 g
Date Analyzed:	01/23/2008 1211	Run Type: DL	Final Weight/Volume:	10 mL
Date Prepared:	01/04/2008 1315		Injection Volume:	1 uL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
N-Nitrosodi-n-propylamine		7500000	U H	7500000
N-Nitrosodiphenylamine		7500000	U H	7500000
N-Nitrosomethylethylamine		7500000	U H	7500000
N-Nitrosomorpholine		7500000	U H	7500000
N-Nitrosopiperidine		7500000	U H	7500000
N-Nitrosopyrrolidine		7500000	U H	7500000
o,o',o"-Triethylphosphorothioate		7500000	U H	7500000
Ethyl Parathion		7500000	U H	7500000
p-Dimethylamino azobenzene		7500000	U H	7500000
Pentachlorobenzene		8200000	H D	7500000
Pentachloronitrobenzene		7500000	U H	7500000
Pentachlorophenol		390000000	U H	390000000
Phenacetin		7500000	U H	7500000
Phenanthrene		7500000	U H	7500000
Phenol		7500000	U H	7500000
Phorate		7500000	U H	7500000
2-Picoline		7500000	U H	7500000
p-Phenylene diamine		390000000	U H	390000000
Pronamide		7500000	U H	7500000
Pyrene		7500000	U H	7500000
Pyridine		7500000	U H	7500000
Safrole, Total		7500000	U H	7500000
Sulfotepp		7500000	U H	7500000
1,2,4,5-Tetrachlorobenzene		7500000	U H	7500000
2,3,4,6-Tetrachlorophenol		7500000	U H	7500000
Thionazin		7500000	U H	7500000
2-Toluidine		7500000	U H	7500000
1,2,4-Trichlorobenzene		130000000	H D	7500000
2,4,5-Trichlorophenol		7500000	U H	7500000
2,4,6-Trichlorophenol		7500000	U H	7500000
1,3,5-Trinitrobenzene		7500000	U H	7500000
1-Chloro-3-nitrobenzene		7500000	U H	7500000
2,4-Dichloronitrobenzene		7500000	U H	7500000
3,4-Dichloronitrobenzene		7500000	U H	7500000
2-Nitrobiphenyl		7500000	U H	7500000
3-Nitrobiphenyl		7500000	U H	7500000
4-Nitrobiphenyl		7500000	U H	7500000
2-chloronitrobenzene / 4-chloronitrobenzene		15000000	U H	15000000

Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl	0	D	44 - 110
2-Fluorophenol	0	D	41 - 110
Nitrobenzene-d5	0	D	36 - 110
Phenol-d5	0	D	43 - 110

Analytical Data

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Client Sample ID: PMAMW4S-1207-DNAPL

Lab Sample ID: 680-33033-4

Date Sampled: 12/20/2007 1020

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8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-96500	Instrument ID:	GC/MS SemiVolatiles - T
Preparation:	3580A	Prep Batch: 680-95164	Lab File ID:	t5221a.d
Dilution:	100		Initial Weight/Volume:	1.32 g
Date Analyzed:	01/23/2008 1211	Run Type: DL	Final Weight/Volume:	10 mL
Date Prepared:	01/04/2008 1315		Injection Volume:	1 uL

Surrogate	%Rec		Acceptance Limits
Terphenyl-d14	0	D	10 - 112
2,4,6-Tribromophenol	0	D	36 - 128

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 680-33033-2

Sdg Number: KPM014

Lab Section	Qualifier	Description
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	E	Result exceeded calibration range, secondary dilution required.
	H	Sample was prepped or analyzed beyond the specified holding time
	X	Surrogate exceeds the control limits
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.