



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

P.O. Box 66760
St. Louis, Missouri 63166-6760
Tel/ 314-674-1000

December 12, 2008

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

Re: Route 3 Drum Site Groundwater Monitoring Program
3rd Quarter 2008 Data Report
Solutia Inc., W. G. Krummrich Plant, Sauget, IL

Dear Mr. Bardo:

Enclosed please find the Route 3 Drum Site Groundwater Monitoring Program 3rd Quarter 2008 Data Report for Solutia Inc.'s W. G. Krummrich Plant, Sauget, IL. This is the first such report, triggered by a requirement in the Final Decision which US EPA issued February 26, 2008.

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 black ink that reads "Gerald M. Rinaldi".

Gerald M. Rinaldi
Manager, Remediation Services

Enclosure

cc: Distribution List

DISTRIBUTION LIST

Route 3 Drum Site Groundwater Monitoring Program 3rd Quarter 2008 Data Report Solutia Inc., W. G. Krummrich Plant, Sauget, IL

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Leah Evison
USEPA Region 5 - SR6J, 77 West Jackson Boulevard, Chicago, IL 60604

IEPA

Sandra Bron
IEPA Bureau of Land/FSRS, 1021 North Grand Avenue East, Springfield, IL 62706

James Moore
IEPA Bureau of Land, 1021 North Grand Avenue East, Springfield, IL 62706

Booz Allen Hamilton

Dan Briller
Booz Allen Hamilton, 225 West Wacker Drive, Suite 1700, Chicago, IL 60606-1228

Solutia

Cathy Bumb 575 Maryville Centre Drive, St. Louis, MO 63141

Lisa Caraway 500 Monsanto Avenue, Sauget, IL 62206-1198

Jerry Rinaldi* 575 Maryville Centre Drive, St. Louis, MO 63141

Steve Smith 575 Maryville Centre Drive, St. Louis, MO 63141

Bruce Yare 575 Maryville Centre Drive, St. Louis, MO 63141

Richard Williams** 500 Monsanto Avenue, Sauget, IL 62206-1198

* Please group all CDs going to 575 Maryville Centre to Jerry Rinaldi's attention.

** Please group all CDs going to 500 Monsanto Avenue to Richard Williams' attention.

3^{R D} QUARTER 2008
DATA REPORT

ILLINOIS ROUTE 3 DRUM SITE
GROUNDWATER SAMPLING

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

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

December 2008



URS Corporation
1001 Highland Plaza Drive West, Suite 300
St. Louis, MO 63110
(314) 429-0100
Project # 21562046.00000

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1.0 INTRODUCTION

Solutia Inc. (Solutia) is conducting groundwater monitoring activities as outlined in the Revised Illinois Route 3 Drum Site Operation and Maintenance Plan (Solutia, 2008). This report presents the results of the 3rd Quarter 2008 (3Q08) sampling event performed at the Illinois Route 3 Drum Site (Site). This is the first sampling event for the program. The Illinois Route 3 Drum Site is an area associated with the Solutia W.G. Krummrich Facility located in Sauget, Illinois that is subject to a RCRA Administrative Order on Consent (AOC) entered into by the U.S. EPA and Solutia on May 3, 2000. The Site location map is presented in **Figure 1**.

During the 3Q08 sampling event, groundwater samples were collected from two Shallow Hydrogeologic Unit (SHU) monitoring wells, designated GM-31A and GM-58A (**Figure 2**), located hydraulically downgradient of the Site. Samples from each well were analyzed for semivolatile organic compounds (SVOCs) using EPA Method 8270C. In addition, samples for evaluation of monitored natural attenuation (MNA) were collected from both wells. The samples were analyzed for the following parameters to assess MNA: alkalinity, carbon dioxide, chloride, dissolved oxygen, ferrous iron, iron (dissolved), iron (total), manganese (dissolved), manganese (total), methane, nitrates, sulfates, dissolved organic carbon, total organic carbon, and oxidation-reduction potential.

2.0 FIELD PROCEDURES

URS Corporation (URS) conducted the 3Q08 Illinois Route 3 Drum Site groundwater sampling activities on August 20 (groundwater level measurements) and August 27, 2008 (groundwater sampling). Two groundwater samples were collected during the 3Q08 sampling event. The following section summarizes the field investigative procedures.

Groundwater Level Measurements - Static groundwater levels in the subject wells were measured and the presence of non-aqueous phase liquids was evaluated on August 20, 2008, using an oil/water interface probe. Well gauging information for the 3Q08 event is presented in **Table 1**.

Groundwater Quality Sampling - Low-flow sampling techniques were used for groundwater sample collection. At each monitoring well, a submersible pump attached to polyethylene tubing was slowly lowered down the well and secured so that the pump intake was set near the middle or slightly above the middle of the screened interval. The outlet 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 200 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. 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, **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 were typically collected at a flow rate no higher than that at which stabilization was achieved. Bottles were filled in the following order:

- Gas Sensitive Parameters (e.g., methane, carbon dioxide)
- Semivolatile Organic Compounds (SVOCs)
- General Chemistry (i.e., alkalinity, chloride, iron (dissolved), iron (total), manganese (dissolved), manganese (total), nitrate, sulfate, dissolved organic carbon, & total organic carbon)
- Field Parameters (i.e. dissolved oxygen, ferrous iron, and oxidation reduction potential).

Samples for analysis of ferrous iron, dissolved iron, and dissolved manganese were filtered in the field using in-line 0.2 micron disposable filters.

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%. One duplicate, equipment blank and MS/MSD was collected.

The sample identification system for groundwater samples included the following nomenclature "GM-31A-0808" which denotes Groundwater Monitoring well number 31A sampled in August 2008. QA/QC samples are identified by the suffix AD, EB or MS/MSD. A notation of "F (0.2)" in the sample nomenclature indicates a filtered sample (0.2 micron).

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 sample label and 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.

3.0 LABORATORY PROCEDURES

Samples were analyzed by TestAmerica for the following SVOCs and MNA parameters:

- SVOCs, via Method 8270C - The constituents of concern (COCs) identified by the USEPA are biphenyl, 2,4-dichlorophenol, dinitrochlorobenzene, nitrobenzene, 2-nitrobiphenyl, 3-nitrobiphenyl, 4-nitrobiphenyl, 2-nitrochlorobenzene, 3-nitrochlorobenzene, 4-nitrochlorobenzene, pentachlorophenol, and 2,4,6-trichlorophenol.
- MNA parameters consisting of alkalinity (310.1), carbon dioxide (310.1), chloride (325.2), dissolved iron (6010B), total iron (6010B), dissolved manganese (6010B), total manganese (6010B), methane (RDK 175), nitrate (353.2), sulfate (375.4), dissolved organic carbon (415.1) and total organic carbon (TOC) (415.1).

Laboratory results were provided in electronic and hard copy formats.

4.0 QUALITY ASSURANCE

Analytical data were reviewed for quality and completeness. 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 six investigative groundwater samples (two investigative groundwater samples, one field duplicate, one MS/MSD pair, one equipment blank) were prepared and analyzed by TestAmerica for SVOCs and MNA parameters. The results for the various analyses were submitted as sample delivery group (SDG) KOM01 containing results for GM-31A and GM-58A.

Evaluation of the analytical data followed procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA 1999) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (USEPA 2004). Based on the above mentioned criteria, results reported for the analyses performed were accepted for their intended use. Acceptable levels of accuracy and precision, based on MS/MSD, LCS, surrogate and field duplicate data were achieved for this SDG 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 100 percent.

5.0 OBSERVATIONS

This section presents a brief summary of the groundwater analytical results from the 3Q08 Illinois Route 3 Drum Site sampling event. A summary of the SVOC detections and MNA results are provided in **Tables 2 and 3**, respectively.

SVOCs were detected in both groundwater samples and the duplicate sample collected during the 3Q08 sampling event. 2-Chloronitrobenzene/4-Chloronitrobenzene was detected in the samples from GM-31A and GM-58A at concentrations of 30 ug/L (32 ug/L duplicate) and 32 ug/L, respectively. 2,4,6-Trichlorophenol was detected in the duplicate sample collected from GM-31A at a concentration of 13 ug/L.

The 3Q08 sampling event was the first event conducted in accordance with the Illinois Route 3 Drum Site Operations and Maintenance Plan. Groundwater samples will be collected for eight quarters, at which time the results will be analyzed to determine if any statistically significant changes have occurred for any of the COCs.

6.0 REFERENCES

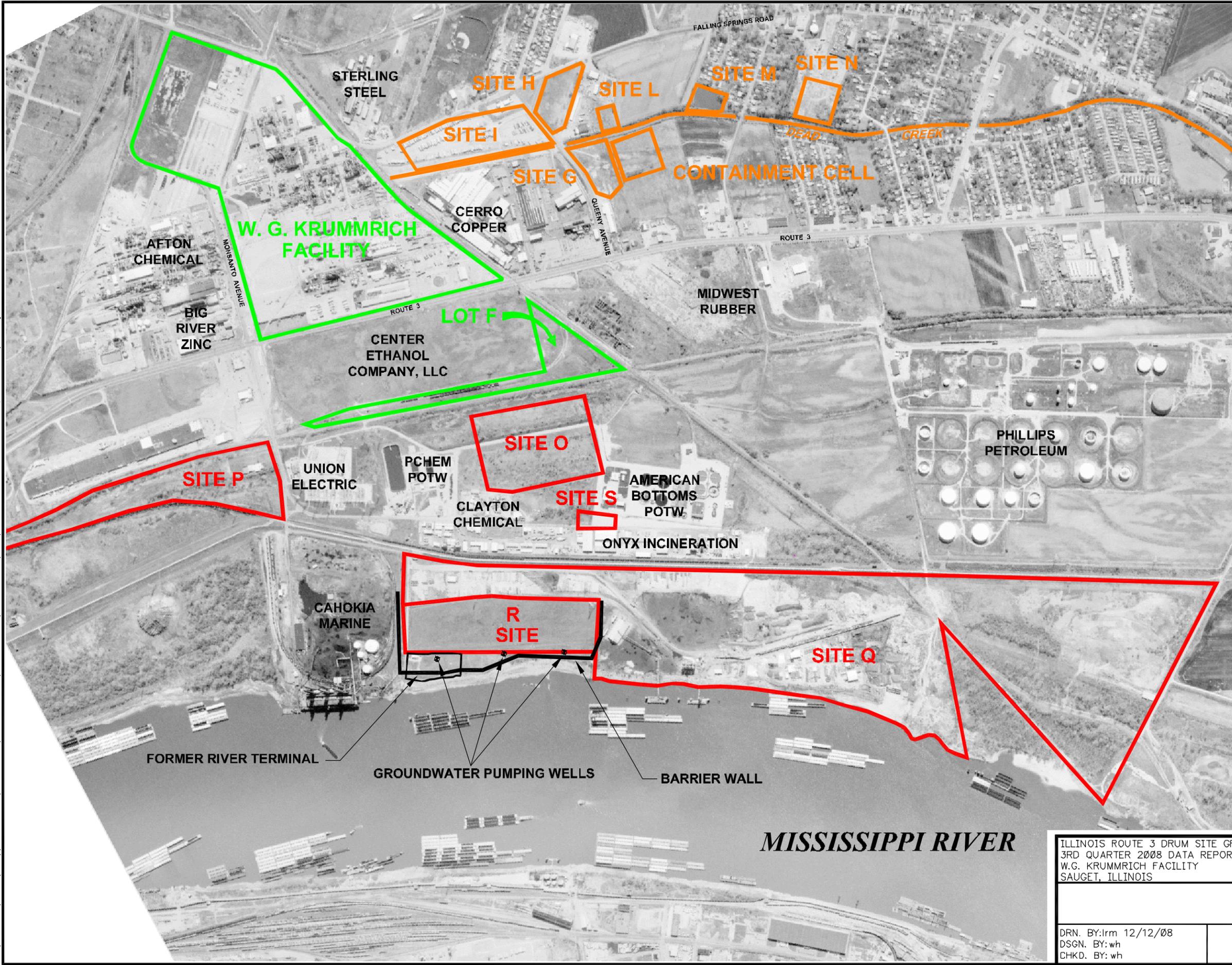
Solutia Inc., 2008. Revised Illinois Route 3 Drum Site Operation and Maintenance Plan, W.G. Krummrich Facility, Sauget, IL, May 2008.

U.S. Environmental Protection Agency (USEPA), 1999. Contract Laboratory Program National Functional Guidelines for Organic Data Review.

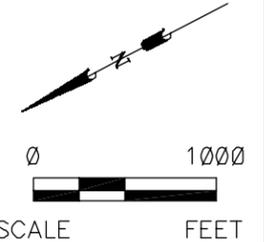
U.S. Environmental Protection Agency (USEPA), 2004. Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.

Figures

FILE: P:\ENVIRONMENTAL\21561996 (W.G. KRUMMRICH FACILITY) QUARTERLY SAMPLING\ROUTE 3 DRUM LOT\GW MONITORING REPORTS\2008 SAMPLING EVIDENCE\FINAL REPORT 121208\F04R5VFC-1 SITE LOCATION MAP.DWG Last updated: DEC. 12, 08 @ 11:28 a.m. by: dand.deglute

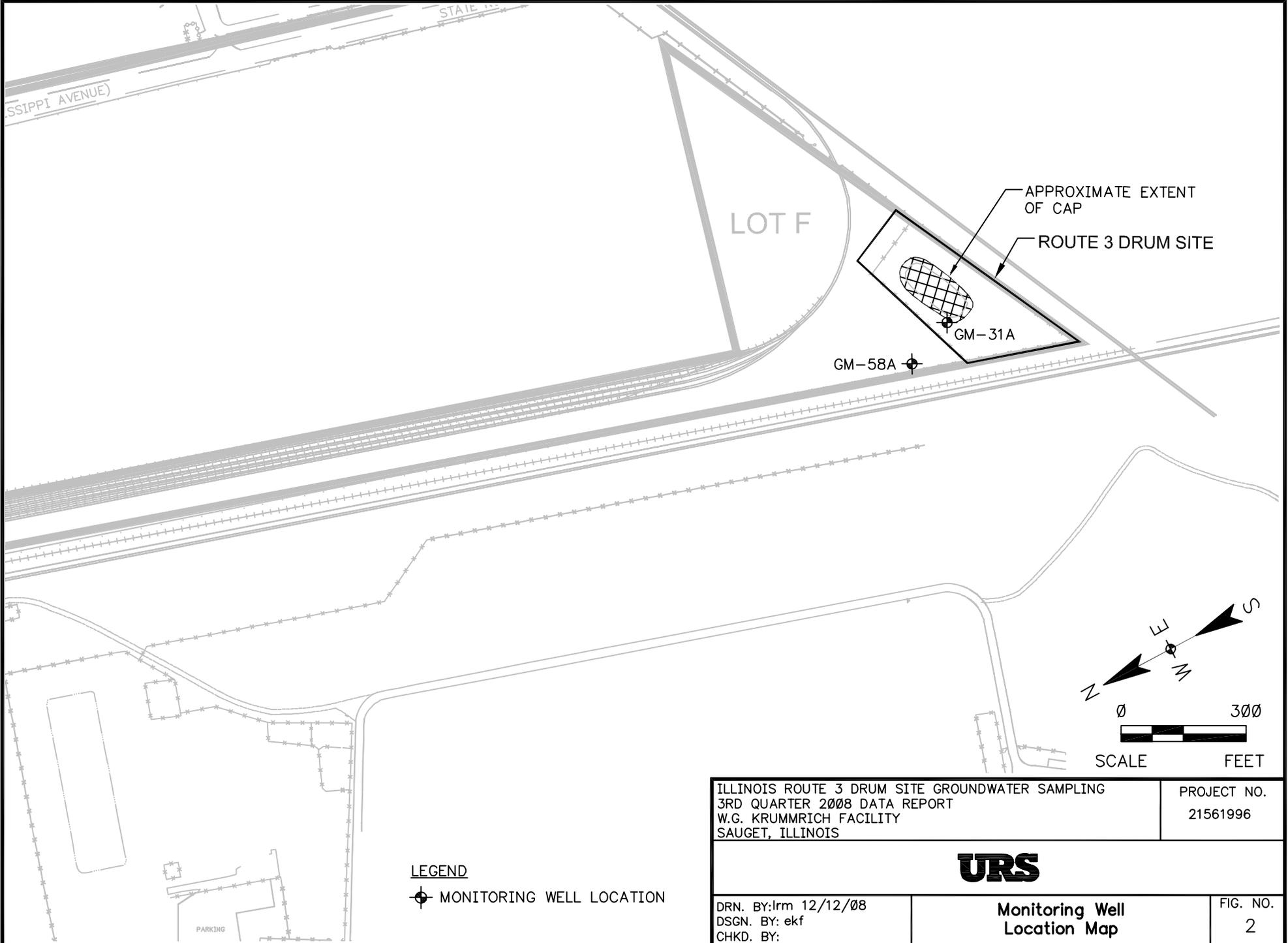


- LEGEND**
- W.G. KRUMMRICH FACILITY
 - SAUGET AREA #1
 - SAUGET AREA #2



ILLINOIS ROUTE 3 DRUM SITE GROUNDWATER SAMPLING 3RD QUARTER 2008 DATA REPORT W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS	PROJECT NO. 21561996
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URS	
DRN. BY:irm 12/12/08 DSGN. BY:wh CHKD. BY:wh	Site Location Map
	FIG. NO. 1



LEGEND
 ◉ MONITORING WELL LOCATION

ILLINOIS ROUTE 3 DRUM SITE GROUNDWATER SAMPLING 3RD QUARTER 2008 DATA REPORT W.G. KRUMM RICH FACILITY SAUGET, ILLINOIS	PROJECT NO. 21561996
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DRN. BY: lrm 12/12/08 DSGN. BY: ekf CHKD. BY:	Monitoring Well Location Map	FIG. NO. 2
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Tables

**Table 1
Monitoring Well Gauging Information**

Well ID	Construction Details						August 20, 2008			
	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 88)										
GM-31A	416.63	418.63	19.00	39.00	397.63	377.63	18.64	-	40.85	399.99
GM-58A	412.24	414.24	19.40	39.40	392.84	372.84	12.95	-	40.79	401.29

Notes:

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

** Feet below ground surface.

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

Ground elevations for GM-58A calculated using top of screen elevation and depths to top of screen in feet below ground surface.

**Table 2
Groundwater Analytical Results**

Sample ID	Sample Date	1,1'-Biphenyl (ug/L)	1-Chloro-2,4-Dinitrobenzene (ug/L)	2,4,6-Trichlorophenol (ug/L)	2,4-Dichlorophenol (ug/L)	2-Chloronitrobenzene/ 4-Chloronitrobenzene (ug/L)	2-Nitrobiphenyl (ug/L)	3-Nitrobiphenyl (ug/L)	3-Nitrochlorobenzene (ug/L)	4-Nitrobiphenyl (ug/L)	Nitrobenzene (ug/L)	Pentachlorophenol (ug/L)
GM-31A-0808	8/27/2008	<9.7	<9.7	<9.7	<9.7	30 * J	<9.7	<9.7	<9.7	<9.7	<9.7	<49
GM-31A-0808-AD	8/27/2008	<9.7	<9.7	13	<9.7	32 *	<9.7	<9.7	<9.7	<9.7	<9.7	<49
GM-58A-0808	8/27/2008	<9.7	<9.7	<9.7	<9.7	32 * J	<9.7	<9.7	<9.7	<9.7	<9.7	<49

Notes:

ug/L = micrograms per liter

<### = Result is non-detect, less than the reporting limit given.

* = LCS, LCSD, MS,MSD, MD or surrogate exceeds the control limits

J = Estimated value

**Table 3
Monitored Natural Attenuation Results Summary**

Sample ID	Sample Date	Alkalinity (mg/L)	Carbon Dioxide (mg/L)	Chloride (mg/L)	Dissolved Oxygen (mg/L)	Ferrous Iron (mg/L)	Iron (mg/L)	Iron, Dissolved (mg/L)	Manganese (mg/L)	Manganese, Dissolved (mg/L)	Methane (ug/L)	Nitrogen, Nitrate (mg/L)	Sulfate as SO4 (mg/L)	Dissolved Organic Carbon (mg/L)	Total Organic Carbon (mg/L)	ORP (mV)
GM-31A-0808	8/27/2008	510	27 B	38	1.04		3.7 J		0.86		8.1	4.4	89		3.7	33.8
GM-31A-F(0.2)-0808	8/27/2008					0.02		<0.05		0.8				4.1		
GM-58A-0808	8/27/2008	530	27 B	82	0.48		2 J		1.8		3.9	<0.85	170		3.3	55.3
GM-58A-F(0.2)-0808	8/27/2008					0.39		0.53		1.8				2.8		

Notes:

DO and ORP were measured in the field using a YSI 6920 equipped with a flow-through cell.

Ferrous Iron readings were measured in the field using a LaMotte Colorimeter after the groundwater passed through a 0.2 µ filter.

mg/L = milligrams per liter

ug/L = micrograms per liter

<### = Result is non-detect, less than the reporting limit given.

A blank space indicates sample not analyzed for select analyte.

F (0.2) = Sample was filtered utilizing a 0.2 µ filter in the field.

B = Compound was found in the blank and sample

J = Estimated value

mV=millivolts

Appendix A
Groundwater Purging and Sampling Forms

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Route 3 Drum Lot PROJECT NUMBER: 2156199800000 ²⁰⁴⁶ FIELD PERSONNEL: M. Corbett, S. Moore
 DATE: 8/27/2008 WEATHER: sunny, 90°
 MONITORING WELL ID: GM-31A SAMPLE ID: GM-31A-0808

INITIAL DATA

Well Diameter: 2 in Water Column Height (do not include LNAPL or DNAPL): 22.25 ft btoc
 Measured Well Depth (btoc): 40.85 ft If Depth to Top of Screen is > Depth to Water AND Screen Length is (4 feet,
 Constructed Well Depth (btoc): _____ ft Place Pump at: Total Well Depth - 0.5 (Screen Length + DNAPL Column Height) = 38.35 ft btoc
 Depth to Water (btoc): 18.60 ft If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
 Depth to LNAPL/DNAPL (btoc): _____ ft Place Pump at: Total Well Depth - (0.5 X Water Column Height + DNAPL Column Height) = _____ ft btoc
 Depth to Top of Screen (btoc): _____ ft If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = _____ ft btoc
 Screen Length: 5 ft Volume of Flow Through Cell): 500 ~~750~~ mL
 Minimum Purge Volume = _____
 (3 x Flow Through Cell Volume) 1500 ~~2250~~ mL
 Ambient PID/FID Reading: 0.0 ppm
 Wellbore PID/FID Reading: 0.2 ppm

PURGE DATA

Pump Type: Stainless Steel Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	±0.2 units	±3 %	±10 % or ±2 mg/L	±20 mv		
					pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	1048	18.62	light brown	chemical	6.58	17.13	1.157	417.9	1.15	-7.4
800	1052	18.62	"		6.53	17.08	1.150	211.7	1.24	20.4
1600	1056	18.62	colorless, cloudy		6.51	17.03	1.104	191.4	1.24	24.3
2400	1100	18.62			6.53	17.10	1.190	98.8	1.23	29.5
3200	1104	18.63			6.53	17.16	1.073	95.3	1.22	29.9
4000	1108	18.63			6.54	17.15	1.070	88.3	1.22	30.7
4800	1112	18.63			6.53	17.22	1.069	80.2	1.20	30.2
5400	1116	18.63			6.54	17.22	1.068	74.4	1.20	29.7
6200	1120	18.63			6.55	18.03	1.069	54.4	1.18	29.6
7000	1124	18.63			6.55	18.00	1.071	51.7	1.16	29.2
7800	1128	18.63			6.55	17.51	1.068	50.4	1.16	29.0
8600	1132	18.63			6.53	17.60	1.062	43.9	1.12	30.0
9400	1136	18.63			6.53	17.80	1.064	36.8	1.08	31.4
10200	1140	18.63			6.53	17.96	1.069	33.3	1.08	32.5
10000	1144	18.63			6.51	17.70	1.069	23.4	1.04	33.8

Start Time: 1048 Elapsed Time: 62 min Water Quality Meter ID: YSI 6920
 Stop Time: 1150 Average Purge Rate (mL/min): 200 Date Calibrated: 8/27/2008

SAMPLING DATA

Sample Date: 8/27/2008 Sample Time: 1150 Analysis: SVOCs (see sampling plan), Total Fe & Mn, Dissolved Fe, MNA
 Sample Method: Stainless Steel Monsoon Sample Flow Rate: 200 Date Calibrated: NA

COMMENTS:

MNA - Alkalinity, Carbon Dioxide, Chloride, Nitrate, Sulfate,
 Total Iron, Dissolved Iron (0.2 Micron filter), Total Manganese, Dissolved Manganese (0.2 Micron filter),
 Methane, Total Organic Carbon, Dissolved Organic Carbon (0.2 Micron filter)
 Ferrous Iron (0.2 Micron filter) = 0.02 ppm

LOW FLOW GROUNDWATER SAMPLING DATA SHEET

PROJECT NAME: WGK Route 3 Drum Lot PROJECT NUMBER: 21562046-00000 FIELD PERSONNEL: M. Corbett, S. Moore
 DATE: 8/27/2008 WEATHER: 80s, Sunny
 MONITORING WELL ID: GM-58A SAMPLE ID: GM-58A-0808

INITIAL DATA

Well Diameter: 2 in Water Column Height (do not include LNAPL or DNAPL): 26.40 ft btoc
 Measured Well Depth (btoc): 40.79 ft If Depth to Top of Screen is > Depth to Water AND Screen Length is (4 feet,
 Constructed Well Depth (btoc): 44.39 ft Place Pump at: Total Well Depth - 0.5 (Screen Length + DNAPL Column Height) = 38.29 ft btoc
 Depth to Water (btoc): 14.39 ft If Depth to Top of Screen is < Depth to Water AND Water Column Height and Screen Length are < 4ft,
 Depth to LNAPL/DNAPL (btoc): — ft Place Pump at: Total Well Depth - (0.5 X Water Column Height + DNAPL Column Height) = — ft btoc
 Depth to Top of Screen (btoc): — ft If Screen Length and/or water column height is < 4 ft, Place Pump at: Total Well Depth - 2 ft = — ft btoc
 Screen Length: 5 ft

Volume of Flow Through Cell: 500 ~~750~~ mL
 Minimum Purge Volume = 1500 ~~2250~~ mL
 (3 x Flow Through Cell Volume)
 Ambient PID/FID Reading: 0.0 ppm
 Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Pump Type: Stainless Steel Monsoon

Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	±0.2 units	±3 %	±10 % or ±2 mg/L	±20 mV		
					pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
0	1304		colorless, clear	none	6.33	19.34	1.348	37.7	0.26	-29.0
800	1308				6.28	19.36	1.352	8.0	0.44	-1.0
1600	1312				6.31	19.55	1.345	0.9	0.48	11.7
2400	1316				6.32	19.48	1.345	0.0	0.48	15.5
3200	1320				6.30	19.32	1.350	-3.0	0.48	25.9
4000	1324				6.30	19.40	1.347	-3.4	0.49	31.2
4800	1328				6.28	19.33	1.342	-5.0	0.53	41.6
5600	1332				6.24	19.28	1.343	-7.5	0.52	53.2
6400	1336				6.24	19.24	1.342	-7.5	0.48	54.5
7200	1340				6.23	19.36	1.341	-7.6	0.48	55.3
					MEC					

Start Time: 1304 Elapsed Time: 36 min Water Quality Meter ID: YSI 6920
 Stop Time: 1340 Average Purge Rate (mL/min): 200 Date Calibrated: 8/27/2008

SAMPLING DATA

Sample Date: 8/27/2008 Sample Time: 1350 Analysis: SVOCs (see sampling plan), Total Fe & Mn, Dissolved Fe, MNA
 Sample Method: Stainless Steel Monsoon Sample Flow Rate: 200 mL/min Date Calibrated: NA

COMMENTS:

MNA - Alkalinity, Carbon Dioxide, Chloride, Nitrate, Sulfate,
 Total Iron, Dissolved Iron (0.2 Micron filter), Total Manganese, Dissolved Manganese (0.2 Micron filter),
 Methane, Total Organic Carbon, Dissolved Organic Carbon (0.2 Micron filter)

Ferrous Iron (0.2 Micron filter) = 0.39 ppm
MS/MSD, ED

Appendix B
Chains-of-Custody

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE WGK Route 3 Drum Lot 2562046 0000	PROJECT NO. 2562046 0000	PROJECT LOCATION (STATE) IL	MATRIX TYPE	REQUIRED ANALYSIS						PAGE 1	OF 1							
TAL (LAB) PROJECT MANAGER Lidya Gulizia	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT...) none	SUDS (8.2700) (4-chloroaniline)	Dichlorophenol, 1,4-dichloro	Fe + Mn (Total) 6010 B	Mn + Zn + Cu + Pb + Ni 6010 B	HCl TDC (415.1)	HCl TOC (415.1)	Methane RDK 175	Alkalinity/CO2 310.1	Chloride (325.4)	Sulfate (315.4)	Nitrate 353.2	STANDARD REPORT DELIVERY	<input type="checkbox"/>	DATE DUE	
CLIENT (SITE) PM Thomas Adams	CLIENT PHONE 314-429-0100	CLIENT FAX 314-429-0462													EXPEDITED REPORT DELIVERY (SURCHARGE)	<input type="checkbox"/>	DATE DUE	
CLIENT NAME URS Corporation	CLIENT E-MAIL thomas.adams@urscorp.com														NUMBER OF COOLERS SUBMITTED PER SHIPMENT:			
CLIENT ADDRESS 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	COMPANY CONTRACTING THIS WORK (if applicable) Solutia														REMARKS			

DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	NUMBER OF CONTAINERS SUBMITTED											REMARKS
							2	1	1	3	1	1	1	1	1	1	1	
8/27/08	1150	GM-31A-0808	GX				2	1	1	3	1	1	1	1	1	1		
	1150	GM-31A-F(0.2)-0808	GX					1	1									
	1150	GM-31A-0808-AD	GX				2	1	1	3	1	1	1	1	1	1		
	1150	GM-31A-F(0.2)-0808-AD	GX					1	1									
	1350	GM-58A-0808	GX				2	1	1	3	1	1	1	1	1	1		
	1350	GM-58A-F(0.2)-0808	GX					1	1									
	1350	GM-58A-0808-MS	GX				2	1	1	3	1	1	1	1	1	1		
	1350	GM-58A-F(0.2)-0808-MS	GX					1	1									
	1350	GM-58A-0808-MSD	GX				2	1	1	3	1	1	1	1	1	1	4.1 / 3.8 / 4.1	
	1350	GM-58A-F(0.2)-0808-MSD	GX					1	1								TEMP: ..	
	1445	GM-58A-0808-EB	GX				2	1	1	3	1	1	1	1	1	1		
	1445	GM-58A-F(0.2)-0808-EB	GX					1	1									

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 8/27/08	TIME 1630	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 082208	TIME 0859	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO. 68039907	SAVANNAH LOG NO.	LABORATORY REMARKS
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Appendix C
Quality Assurance Report

QUALITY ASSURANCE REPORT

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

Illinois Route 3 Drum Site
3rd Quarter 2008 Data Report

Prepared for

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

December 2008



URS Corporation
1001 Highland Plaza Drive West, Suite 300
St. Louis, MO 63110
(314) 429-0100
Project # 21562046.00000

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1.0 INTRODUCTION

This Quality Assurance Report presents the findings of a review of analytical data for groundwater samples collected in August 2008 at the Illinois Route 3 Drum Site on the Solutia W.G. Krummrich Facility as part of the 3rd Quarter 2008 sampling event. The 3rd Quarter 2008 sampling event was the first of the program. The samples were collected by URS Corporation personnel and analyzed by Test America Laboratories located in Savannah, Georgia using USEPA methodologies. Samples were analyzed for semivolatile organic compounds (SVOCs), and monitored natural attenuation (MNA) parameters.

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 Test America were acceptable in quality for their intended use.

A total of six samples (two investigative groundwater samples, one field duplicate, one matrix spike and matrix spike duplicate (MS/MSD) pair, and one equipment blank) were analyzed by Test America. These samples were analyzed as Sample Delivery Group (SDG) KOM01, utilizing the following USEPA SW-846 Methods:

- Method 8270C for SVOCs

Samples were also analyzed for MNA parameters by the following methods:

- Method RSK-175 for Methane
- USEPA Method 310.1 for Alkalinity and Carbon Dioxide
- USEPA Method 325.2 for Chloride
- USEPA Method 6010B for Total and Dissolved Iron and Manganese
- USEPA Method 415.1 for Total and Dissolved Organic Carbon
- USEPA Method 353.2 for Nitrogen, Nitrate
- USEPA Method 375.4 for Sulfate

Samples were reviewed following procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999 and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004.

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. 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 100 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 and field equipment blanks
- 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

Inorganics/General chemistry

- Receipt condition and sample holding times
- Laboratory method blank and field equipment blank samples
- LCS recoveries
- MS/MSD sample recoveries and matrix duplicate RPD values
- Field duplicate and laboratory duplicate results
- Results reported from dilutions

2.0 RECEIPT CONDITION AND SAMPLE HOLDING TIMES

Sample holding time requirements for the analyses performed are presented in the methods and/or in the data review guidelines. Review of the sample collection, extraction and analysis dates involved comparing the chain-of-custody and the laboratory data summary forms for accuracy, consistency, and holding time compliance. Upon review of the data, the COC designated an incorrect SVOC target analyte list. URS contacted the laboratory and provided the correct SVOC target analyte list prior to sample analysis. The quality of data was not affected. No qualification of data was required.

Extractions and/or analyses were completed within the recommended holding time requirements; no qualification of data was required.

3.0 LABORATORY METHOD BLANK AND EQUIPMENT BLANK SAMPLES

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.

Equipment blank samples are used to assess the effectiveness of equipment decontamination procedures. Analytes detected in the method blanks and/or equipment blanks are included in the table below.

Blank ID	Parameter	Analyte	Concentration	Units
GM-58A-0808-EB	Dissolved Gasses	Methane	0.29	µg/L
GM-58A-0808-EB	General chemistry	Nitrate	0.065	mg/L
GM-58A-F(0.2)-0808-EB	General chemistry	Dissolved Organic Carbon	9.2	mg/L
MB 680-116120	General chemistry	Carbon Dioxide	3.6	mg/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. The dissolved organic carbon result in the equipment blank was three times (3X) higher in the equipment blank than in the investigative sample. Therefore, professional judgment was used to not qualify dissolved organic carbon data based on equipment blank results since the equipment blank results were not chemically feasible. In addition, samples were not qualified due to carbon dioxide since carbon dioxide in the air is very soluble in water and the method blank results are not representative of the site.

Field ID	Parameter	Analyte	New RL	Qualification
GM-58A-0808	General chemistry	Nitrate	0.85	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 SVOCs 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. Surrogates that were associated with quality control samples did not require qualification. In addition, no qualification of data was required if only one SVOC acid or base fraction surrogate was outside evaluation criteria and USEPA National Functional Guidelines for Organic Data Review indicates to qualify data if two or more surrogates per SVOC fraction are outside criteria. No qualifications of data was required due to 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 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. LCS recoveries outside evaluation criteria and associated with quality control sample did not require qualification.

Field ID	Parameter	Analyte	Qualification
GM-31A-0808	SVOCs	1-Chloro-3-nitrobenzene	UJ
GM-31A-0808	SVOCs	3,4-Dichloronitrobenzene	UJ
GM-31A-0808	SVOCs	2-chloronitrobenzene/4-chloronitrobenzene	J
GM-58A-0808	SVOCs	1-Chloro-3-nitrobenzene	UJ
GM-58A-0808	SVOCs	3,4-Dichloronitrobenzene	UJ
GM-58A-0808	SVOCs	2-chloronitrobenzene/4-chloronitrobenzene	J

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.

No qualifications were made to the data if the MS/MSD 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.

Samples spiked and analyzed as MS/MSDs and their respective recoveries are discussed further in data reviews in Appendix D. Samples that required qualification based on MS/MSD recoveries or matrix spike/matrix duplicate recoveries are included in the table below.

Field ID	Parameter	Analyte	Qualification
GM-58A-0808	Metals	Iron	J

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 two investigative samples. This satisfies the requirement in the work plan (one per 10 investigative samples or 10 percent). All field duplicate RPDs were within evaluation criteria with the exception of the field duplicate discussed further in the data reviews in Appendix D. Analytical data that required qualification based on field duplicates are included in the table below.

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
GM-31A-0808	GM-31A-0808-AD	Metals	Iron	38	J

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 SVOCs. Also, the IS retention times must be within 30 seconds of the preceding IS CV retention time.

The internal standards area responses for the SVOCs were verified for the data reviews. IS responses met the criteria.

9.0 RESULTS REPORTED FROM DILUTIONS

Nitrate and sulfate samples were diluted and reanalyzed due to the high levels of these analytes in the samples. The diluted sample results for nitrate and sulfate were reported at the lowest possible reporting limit.

Appendix D
Groundwater Analytical Results
(and Data Review Sheets)

Solutia Krummrich Data Review

Laboratory SDG: KOM01

Reviewer: Tony Sedlacek

Date Reviewed: 10/28/2008

**Guidance: USEPA National Functional Guidelines for Organic Data Review 1999.
USEPA National Functional Guidelines for Inorganic Data Review 2004.**

Applicable Work Plan: Revised Illinois Route 3 Drum Site Operation and Maintenance Plan (URS 2008A)

Sample Identification #	Sample Identification #
GM-31A-0808	GM-31A-F(0.2)-0808
GM-31A-0808-AD	GM-31A-F(0.2)-0808-AD
GM-58A-0808	GM-58A-F(0.2)-0808
GM-58A-0808-EB	GM-58A-F(0.2)-0808-EB

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 methane and general chemistry parameters were detected in the equipment blank and dissolved carbon dioxide was detected in the method blank. SVOC LCS, surrogate and MS/MSD and MS/MSD RPDs were outside evaluation criteria. Also, the MSD recovery for iron was outside evaluation criteria. In addition, the field duplicate RPD for iron was outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that the COC designated an incorrect SVOC target analyte list. URS contacted the laboratory and provided the correct SVOC target analyte list prior to sample analysis. The quality of data was not affected. No qualification of data was required.

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?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
GM-58A-0808-EB	Dissolved Gasses	Methane	0.29	µg/L
GM-58A-0808-EB	General chemistry	Nitrate	0.065	mg/L
GM-58A-F(0.2)-0808-EB	General chemistry	Dissolved Organic Carbon	9.2	mg/L
MB 680-116120	General chemistry	Carbon Dioxide	3.6	mg/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. The dissolved organic carbon result in the equipment blank was three times (3X) higher in the equipment blank than in the investigative sample. Therefore, professional judgment was used to not qualify dissolved organic carbon data based on equipment blank results since the equipment blank results were not chemically feasible. In addition, samples were not qualified due to carbon dioxide since carbon dioxide in the air is very soluble in water and the method blank results are not representative of the site.

Field ID	Parameter	Analyte	New RL	Qualification
GM-58A-0808	General chemistry	Nitrate	0.85	U

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	RPD	LCS Criteria
680-115990/11-A	SVOCs	1-Chloro-3-nitrobenzene	57	N/A	70-130
680-115990/11-A	SVOCs	3,4-Dichloronitrobenzene	67	N/A	70-130
680-115990/11-A	SVOCs	2-chloronitrobenzene/4-chloronitrobenzene	59	N/A	70-130

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. LCS recoveries outside evaluation criteria and associated with quality control sample did not require qualification.

Field ID	Parameter	Analyte	Qualification
GM-31A-0808	SVOCs	1-Chloro-3-nitrobenzene	UJ
GM-31A-0808	SVOCs	3,4-Dichloronitrobenzene	UJ
GM-31A-0808	SVOCs	2-chloronitrobenzene/4-chloronitrobenzene	J
GM-58A-0808	SVOCs	1-Chloro-3-nitrobenzene	UJ
GM-58A-0808	SVOCs	3,4-Dichloronitrobenzene	UJ
GM-58A-0808	SVOCs	2-chloronitrobenzene/4-chloronitrobenzene	J

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Field ID	Parameter	Surrogate	Recovery	Criteria
GM-31A-0808	SVOCs	2-Fluorobiphenyl	46	50-113
GM-31A-0808-AD	SVOCs	2-Fluorobiphenyl	49	50-113
GM-58A-0808	SVOCs	2-Fluorobiphenyl	46	50-113

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Surrogate recoveries outside evaluation criteria and associated with quality control sample did not require evaluation or qualification. Since only one base fraction surrogate was outside criteria and Functional Guidelines indicates to qualify data if two or more surrogates per SVOC fraction are outside criteria, no qualification of the SVOC data was required.

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 GM-58A-0808 was spiked and analyzed for SVOCs, methane, iron and manganese, chloride, nitrate, nitrate-nitrite, sulfate and total organic carbon. Sample GM-58A-F(0.2)-0808 was spiked and analyzed for dissolved iron, manganese and dissolved organic carbon.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/ RPD Criteria
GM-58A-0808	SVOCs	Nitrobenzene	74/124	50	46-110/40
GM-58A-0808	SVOCs	1-Chloro-nitrobenzene	55/55	0	70-130/40
GM-58A-0808	SVOCs	3-Nitrophenyl	89/69	25	70-130/40
GM-58A-0808	SVOCs	3,4-Dichloronitrobenzene	64/61	4	70-130/40
GM-58A-0808	SVOCs	2-chloronitrobenzene/4-chloronitrobenzene	48/58	14	70-130/40
GM-58A-0808	Metals	Iron	119/136	5	75-125/20

Analytical data that required qualification based on MS/MSD data are included in the table below. The MS/MSD recoveries for inorganic compounds with sample concentrations greater than four times (4X) the matrix spike concentration did not require evaluation or qualification. 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
GM-58A-0808	Metals	Iron	J

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?

Yes, sample GM-58A-0808 was duplicated and analyzed for alkalinity and carbon dioxide. Sample GM-31A-0808 was duplicated and analyzed for total organic carbon.

Were laboratory duplicate sample RPDs within criteria?

Yes

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
GM-31A-0808	GM-31A-0808-AD
GM-31A-F(0.2)-0808	GM-31A-F(0.2)-0808-AD

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
GM-31A-0808	GM-31A-0808-AD	Metals	Iron	38	J

11.0 Sample Dilutions

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

Analytes were detected in samples that were diluted.

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

Field ID	Parameter	Dilution Factor
N/A		

12.0 Additional Qualifications

Were additional qualifications applied?

No

SAMPLE SUMMARY

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-39907-1	GM-31A-0808	Water	08/27/2008 1150	08/28/2008 0905
680-39907-2	GM-31A-F(0.2)-0808	Water	08/27/2008 1150	08/28/2008 0905
680-39907-3FD	GM-31A-0808-AD	Water	08/27/2008 1150	08/28/2008 0905
680-39907-4FD	GM-31A-F(0.2)0808-AD	Water	08/27/2008 1150	08/28/2008 0905
680-39907-5	GM-58A-0808	Water	08/27/2008 1350	08/28/2008 0905
680-39907-5MS	GM-58A-0808	Water	08/27/2008 1350	08/28/2008 0905
680-39907-5MSD	GM-58A-0808	Water	08/27/2008 1350	08/28/2008 0905
680-39907-6	GM-58A-F(0.2)-0808	Water	08/27/2008 1350	08/28/2008 0905
680-39907-6MS	GM-58A-F(0.2)-0808	Water	08/27/2008 1350	08/28/2008 0905
680-39907-6MSD	GM-58A-F(0.2)-0808	Water	08/27/2008 1350	08/28/2008 0905
680-39907-7EB	GM-58A-0808-EB	Water	08/27/2008 1445	08/28/2008 0905
680-39907-8EB	GM-58A-F(0.2)-0808-EB	Water	08/27/2008 1445	08/28/2008 0905

SAMPLE RESULTS

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1

Sdg Number: KOM01

Client Sample ID: GM-31A-0808

Lab Sample ID: 680-39907-1

Date Sampled: 08/27/2008 1150

Client Matrix: Water

Date Received: 08/28/2008 0905

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

Method:	8270C	Analysis Batch: 680-116895	Instrument ID: GC/MS SemiVolatiles - G
Preparation:	3520C	Prep Batch: 680-115990	Lab File ID: g3630.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	09/10/2008 1126		Final Weight/Volume: 1 mL
Date Prepared:	09/02/2008 1333		Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
1,1'-Biphenyl	9.7	U	9.7
2,4-Dichlorophenol	9.7	U	9.7
Nitrobenzene	9.7	U	9.7
Pentachlorophenol	49	U	49
2,4,6-Trichlorophenol	9.7	U	9.7
1-Chloro-3-nitrobenzene	9.7	U* - "uJ"	9.7
2-Nitrobiphenyl	9.7	U	9.7
3-Nitrobiphenyl	9.7	U	9.7
3,4-Dichloronitrobenzene	9.7	U* - "uJ"	9.7
4-Nitrobiphenyl	9.7	U	9.7
2-chloronitrobenzene / 4-chloronitrobenzene	30	* - "J"	19
1-chloro-2,4-dinitrobenzene	9.7	U	9.7
Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl	46	X	50 - 113
2-Fluorophenol	50		36 - 110
Nitrobenzene-d5	50		45 - 112
Phenol-d5	53		38 - 116
Terphenyl-d14	35		10 - 121
2,4,6-Tribromophenol	45		40 - 139



Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1

Sdg Number: KOM01

Client Sample ID: GM-31A-0808-AD

Lab Sample ID: 680-39907-3FD

Date Sampled: 08/27/2008 1150

Client Matrix: Water

Date Received: 08/28/2008 0905

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

Method:	8270C	Analysis Batch: 680-116895	Instrument ID: GC/MS SemiVolatiles - G
Preparation:	3520C	Prep Batch: 680-115990	Lab File ID: g3631.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	09/10/2008 1148		Final Weight/Volume: 1 mL
Date Prepared:	09/02/2008 1333		Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
1,1'-Biphenyl	9.7	U	9.7
2,4-Dichlorophenol	9.7	U	9.7
Nitrobenzene	9.7	U	9.7
Pentachlorophenol	49	U	49
2,4,6-Trichlorophenol	13		9.7
1-Chloro-3-nitrobenzene	9.7	U *	9.7
2-Nitrobiphenyl	9.7	U	9.7
3-Nitrobiphenyl	9.7	U	9.7
3,4-Dichloronitrobenzene	9.7	U *	9.7
4-Nitrobiphenyl	9.7	U	9.7
2-chloronitrobenzene / 4-chloronitrobenzene	32	*	19
1-chloro-2,4-dinitrobenzene	9.7	U	9.7

Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl	49	X	50 - 113
2-Fluorophenol	46		36 - 110
Nitrobenzene-d5	55		45 - 112
Phenol-d5	47		38 - 116
Terphenyl-d14	28		10 - 121
2,4,6-Tribromophenol	49		40 - 139

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1

Sdg Number: KOM01

Client Sample ID: GM-58A-0808

Lab Sample ID: 680-39907-5

Date Sampled: 08/27/2008 1350

Client Matrix: Water

Date Received: 08/28/2008 0905

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

Method:	8270C	Analysis Batch: 680-116895	Instrument ID: GC/MS SemiVolatiles - G
Preparation:	3520C	Prep Batch: 680-115990	Lab File ID: g3632.d
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	09/10/2008 1210		Final Weight/Volume: 1 mL
Date Prepared:	09/02/2008 1333		Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
1,1'-Biphenyl	9.7	U	9.7
2,4-Dichlorophenol	9.7	U	9.7
Nitrobenzene	9.7	U	9.7
Pentachlorophenol	49	U	49
2,4,6-Trichlorophenol	9.7	U	9.7
1-Chloro-3-nitrobenzene	9.7	U* - "uJ"	9.7
2-Nitrobiphenyl	9.7	U	9.7
3-Nitrobiphenyl	9.7	U	9.7
3,4-Dichloronitrobenzene	9.7	U* - "uJ"	9.7
4-Nitrobiphenyl	9.7	U	9.7
2-chloronitrobenzene / 4-chloronitrobenzene	32	* - "J"	19
1-chloro-2,4-dinitrobenzene	9.7	U	9.7
Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl	46	X	50 - 113
2-Fluorophenol	47		36 - 110
Nitrobenzene-d5	47		45 - 112
Phenol-d5	51		38 - 116
Terphenyl-d14	27		10 - 121
2,4,6-Tribromophenol	47		40 - 139

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1

Sdg Number: KOM01

Client Sample ID: GM-58A-0808-EB

Lab Sample ID: 680-39907-7EB

Date Sampled: 08/27/2008 1445

Client Matrix: Water

Date Received: 08/28/2008 0905

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

Method:	8270C	Analysis Batch: 680-116895	Instrument ID:	GC/MS SemiVolatiles - G
Preparation:	3520C	Prep Batch: 680-115990	Lab File ID:	g3635.d
Dilution:	1.0		Initial Weight/Volume:	1030 mL
Date Analyzed:	09/10/2008 1317		Final Weight/Volume:	1 mL
Date Prepared:	09/02/2008 1333		Injection Volume:	1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
1,1'-Biphenyl	9.7	U	9.7
2,4-Dichlorophenol	9.7	U	9.7
Nitrobenzene	9.7	U	9.7
Pentachlorophenol	49	U	49
2,4,6-Trichlorophenol	9.7	U	9.7
1-Chloro-3-nitrobenzene	9.7	U*	9.7
2-Nitrobiphenyl	9.7	U	9.7
3-Nitrobiphenyl	9.7	U	9.7
3,4-Dichloronitrobenzene	9.7	U*	9.7
4-Nitrobiphenyl	9.7	U	9.7
2-chloronitrobenzene / 4-chloronitrobenzene	19	U*	19
1-chloro-2,4-dinitrobenzene	9.7	U	9.7

Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl	49	X	50 - 113
2-Fluorophenol	51		36 - 110
Nitrobenzene-d5	54		45 - 112
Phenol-d5	57		38 - 116
Terphenyl-d14	90		10 - 121
2,4,6-Tribromophenol	49		40 - 139

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

Client Sample ID: GM-31A-0808

Lab Sample ID: 680-39907-1
Client Matrix: Water

Date Sampled: 08/27/2008 1150
Date Received: 08/28/2008 0905

RSK-175 Dissolved Gases (GC)

Method: RSK-175
Preparation: N/A
Dilution: 1.0
Date Analyzed: 09/02/2008 2048
Date Prepared: N/A

Analysis Batch: 680-116196

Instrument ID: GC Volatiles - U FID
Lab File ID: U090213.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Methane	8.1		0.19

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

Client Sample ID: GM-31A-0808-AD

Lab Sample ID: 680-39907-3FD
Client Matrix: Water

Date Sampled: 08/27/2008 1150
Date Received: 08/28/2008 0905

RSK-175 Dissolved Gases (GC)

Method: RSK-175
Preparation: N/A
Dilution: 1.0
Date Analyzed: 09/02/2008 2100
Date Prepared: N/A

Analysis Batch: 680-116196

Instrument ID: GC Volatiles - U FID
Lab File ID: U090214.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Methane	9.0		0.19

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

Client Sample ID: GM-58A-0808

Lab Sample ID: 680-39907-5
Client Matrix: Water

Date Sampled: 08/27/2008 1350
Date Received: 08/28/2008 0905

RSK-175 Dissolved Gases (GC)

Method: RSK-175
Preparation: N/A
Dilution: 1.0
Date Analyzed: 09/02/2008 2113
Date Prepared: N/A

Analysis Batch: 680-116196

Instrument ID: GC Volatiles - U FID
Lab File ID: U090215.D
Initial Weight/Volume: 1000 uL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Methane	3.9		0.19

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1

Sdg Number: KOM01

Client Sample ID: GM-58A-0808-EB

Lab Sample ID: 680-39907-7EB

Date Sampled: 08/27/2008 1445

Client Matrix: Water

Date Received: 08/28/2008 0905

RSK-175 Dissolved Gases (GC)

Method: RSK-175

Analysis Batch: 680-116196

Instrument ID: GC Volatiles - U FID

Preparation: N/A

Lab File ID: U090216.D

Dilution: 1.0

Initial Weight/Volume: 1000 uL

Date Analyzed: 09/02/2008 2126

Final Weight/Volume: 1 mL

Date Prepared: N/A

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Methane	0.29		0.19

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

Client Sample ID: GM-31A-0808

Lab Sample ID: 680-39907-1
Client Matrix: Water

Date Sampled: 08/27/2008 1150
Date Received: 08/28/2008 0905

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 08/29/2008 2323
Date Prepared: 08/29/2008 0842

Analysis Batch: 680-116014
Prep Batch: 680-115859

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Iron	3.7	J11	0.050
Manganese	0.86		0.010

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

Client Sample ID: GM-31A-F(0.2)-0808

Lab Sample ID: 680-39907-2

Date Sampled: 08/27/2008 1150

Client Matrix: Water

Date Received: 08/28/2008 0905

6010B Metals (ICP)-Dissolved

Method: 6010B

Analysis Batch: 680-116014

Instrument ID: ICP/AES - D

Preparation: 3005A

Prep Batch: 680-115859

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 08/29/2008 2328

Final Weight/Volume: 50 mL

Date Prepared: 08/29/2008 0842

Analyte	Result (mg/L)	Qualifier	RL
Iron, Dissolved	0.050	U	0.050
Manganese, Dissolved	0.80		0.010

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

Client Sample ID: GM-31A-0808-AD

Lab Sample ID: 680-39907-3FD
Client Matrix: Water

Date Sampled: 08/27/2008 1150
Date Received: 08/28/2008 0905

6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch: 680-116014	Instrument ID:	ICP/AES - D
Preparation:	3005A	Prep Batch: 680-115859	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	08/29/2008 2334		Final Weight/Volume:	50 mL
Date Prepared:	08/29/2008 0842			

Analyte	Result (mg/L)	Qualifier	RL
Iron	2.5		0.050
Manganese	0.85		0.010

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

Client Sample ID: GM-31A-F(0.2)0808-AD

Lab Sample ID: 680-39907-4FD
Client Matrix: Water

Date Sampled: 08/27/2008 1150
Date Received: 08/28/2008 0905

6010B Metals (ICP)-Dissolved

Method:	6010B	Analysis Batch: 680-116014	Instrument ID:	ICP/AES - D
Preparation:	3005A	Prep Batch: 680-115859	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	08/29/2008 2339		Final Weight/Volume:	50 mL
Date Prepared:	08/29/2008 0842			

Analyte	Result (mg/L)	Qualifier	RL
Iron, Dissolved	0.050	U	0.050
Manganese, Dissolved	0.80		0.010



Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

Client Sample ID: GM-58A-0808

Lab Sample ID: 680-39907-5

Date Sampled: 08/27/2008 1350

Client Matrix: Water

Date Received: 08/28/2008 0905

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 08/29/2008 2344
Date Prepared: 08/29/2008 0842

Analysis Batch: 680-116014
Prep Batch: 680-115859

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	RL
Iron	2.0	<u>1.0</u>	0.050
Manganese	1.8		0.010

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

Client Sample ID: GM-58A-F(0.2)-0808

Lab Sample ID: 680-39907-6

Date Sampled: 08/27/2008 1350

Client Matrix: Water

Date Received: 08/28/2008 0905

6010B Metals (ICP)-Dissolved

Method: 6010B

Analysis Batch: 680-116014

Instrument ID: ICP/AES - D

Preparation: 3005A

Prep Batch: 680-115859

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 08/30/2008 0021

Final Weight/Volume: 50 mL

Date Prepared: 08/29/2008 0842

Analyte	Result (mg/L)	Qualifier	RL
Iron, Dissolved	0.53		0.050
Manganese, Dissolved	1.8		0.010

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

Client Sample ID: GM-58A-0808-EB

Lab Sample ID: 680-39907-7EB

Client Matrix: Water

Date Sampled: 08/27/2008 1445

Date Received: 08/28/2008 0905

6010B Metals (ICP)-Total Recoverable

Method: 6010B

Analysis Batch: 680-116014

Instrument ID: ICP/AES - D

Preparation: 3005A

Prep Batch: 680-115859

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 08/30/2008 0036

Final Weight/Volume: 50 mL

Date Prepared: 08/29/2008 0842

Analyte	Result (mg/L)	Qualifier	RL
Iron	0.050	U	0.050
Manganese	0.010	U	0.010

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

Client Sample ID: GM-58A-F(0.2)-0808-EB

Lab Sample ID: 680-39907-8EB

Date Sampled: 08/27/2008 1445

Client Matrix: Water

Date Received: 08/28/2008 0905

6010B Metals (ICP)-Dissolved

Method: 6010B

Analysis Batch: 680-116014

Instrument ID: ICP/AES - D

Preparation: 3005A

Prep Batch: 680-115859

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Date Analyzed: 08/30/2008 0041

Final Weight/Volume: 50 mL

Date Prepared: 08/29/2008 0842

Analyte	Result (mg/L)	Qualifier	RL
Iron, Dissolved	0.050	U	0.050
Manganese, Dissolved	0.010	U	0.010

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1

Sdg Number: KOM01

General Chemistry

Client Sample ID: GM-31A-0808

Lab Sample ID: 680-39907-1

Date Sampled: 08/27/2008 1150

Client Matrix: Water

Date Received: 08/28/2008 0905

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	38		mg/L	1.0	1.0	325.2
	Anly Batch: 680-116460	Date Analyzed	09/05/2008 1702			
Nitrate as N	4.4		mg/L	0.25	5.0	353.2
	Anly Batch: 680-115841	Date Analyzed	08/28/2008 1611			
Sulfate	89		mg/L	25	5.0	375.4
	Anly Batch: 680-116241	Date Analyzed	09/03/2008 1500			
Total Organic Carbon	3.7		mg/L	1.0	1.0	415.1
	Anly Batch: 680-116685	Date Analyzed	09/08/2008 1721			

Analyte	Result	Qual	Units	RL	Dil	Method
Alkalinity	510		mg/L	1.0	1.0	310.1
	Anly Batch: 680-116120	Date Analyzed	09/02/2008 1459			
Carbon Dioxide, Free	27	B	mg/L	1.0	1.0	310.1
	Anly Batch: 680-116120	Date Analyzed	09/02/2008 1459			

Client Sample ID: GM-31A-F(0.2)-0808

Lab Sample ID: 680-39907-2

Date Sampled: 08/27/2008 1150

Client Matrix: Water

Date Received: 08/28/2008 0905

Analyte	Result	Qual	Units	RL	Dil	Method
Dissolved Organic Carbon-D	4.1		mg/L	1.0	1.0	415.1
	Anly Batch: 680-116697	Date Analyzed	09/08/2008 1910			

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1

Sdg Number: KOM01

General Chemistry

Client Sample ID: GM-31A-0808-AD

Lab Sample ID: 680-39907-3FD

Date Sampled: 08/27/2008 1150

Client Matrix: Water

Date Received: 08/28/2008 0905

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	37		mg/L	1.0	1.0	325.2
	Anly Batch: 680-116460	Date Analyzed	09/05/2008 1702			
Nitrate as N	4.4		mg/L	0.25	5.0	353.2
	Anly Batch: 680-115841	Date Analyzed	08/28/2008 1635			
Sulfate	87		mg/L	25	5.0	375.4
	Anly Batch: 680-116241	Date Analyzed	09/03/2008 1500			
Total Organic Carbon	3.8		mg/L	1.0	1.0	415.1
	Anly Batch: 680-116685	Date Analyzed	09/08/2008 1748			

Analyte	Result	Qual	Units	RL	Dil	Method
Alkalinity	500		mg/L	1.0	1.0	310.1
	Anly Batch: 680-116120	Date Analyzed	09/02/2008 1508			
Carbon Dioxide, Free	29	B	mg/L	1.0	1.0	310.1
	Anly Batch: 680-116120	Date Analyzed	09/02/2008 1508			

Client Sample ID: GM-31A-F(0.2)0808-AD

Lab Sample ID: 680-39907-4FD

Date Sampled: 08/27/2008 1150

Client Matrix: Water

Date Received: 08/28/2008 0905

Analyte	Result	Qual	Units	RL	Dil	Method
Dissolved Organic Carbon-D	3.1		mg/L	1.0	1.0	415.1
	Anly Batch: 680-116697	Date Analyzed	09/08/2008 1910			

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1
Sdg Number: KOM01

General Chemistry

Client Sample ID: GM-58A-0808-EB

Lab Sample ID: 680-39907-7EB
Client Matrix: Water

Date Sampled: 08/27/2008 1445
Date Received: 08/28/2008 0905

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	1.0	U	mg/L	1.0	1.0	325.2
	Anly Batch: 680-116460	Date Analyzed	09/05/2008 1646			
Nitrate as N	0.065		mg/L	0.050	1.0	353.2
	Anly Batch: 680-115836	Date Analyzed	08/28/2008 1635			
Sulfate	5.0	U	mg/L	5.0	1.0	375.4
	Anly Batch: 680-116241	Date Analyzed	09/03/2008 1445			
Total Organic Carbon	1.0	U	mg/L	1.0	1.0	415.1
	Anly Batch: 680-116685	Date Analyzed	09/08/2008 1851			

Analyte	Result	Qual	Units	RL	Dil	Method
Alkalinity	1.0	U	mg/L	1.0	1.0	310.1
	Anly Batch: 680-116120	Date Analyzed	09/02/2008 1532			
Carbon Dioxide, Free	1.0	U	mg/L	1.0	1.0	310.1
	Anly Batch: 680-116120	Date Analyzed	09/02/2008 1532			

Client Sample ID: GM-58A-F(0.2)-0808-EB

Lab Sample ID: 680-39907-8EB
Client Matrix: Water

Date Sampled: 08/27/2008 1445
Date Received: 08/28/2008 0905

Analyte	Result	Qual	Units	RL	Dil	Method
Dissolved Organic Carbon-D	9.2		mg/L	1.0	1.0	415.1
	Anly Batch: 680-116697	Date Analyzed	09/08/2008 1910			

Analytical Data

Client: Solutia Inc.

Job Number: 680-39907-1

Sdg Number: KOM01

General Chemistry

Client Sample ID: GM-58A-0808

Lab Sample ID: 680-39907-5

Date Sampled: 08/27/2008 1350

Client Matrix: Water

Date Received: 08/28/2008 0905

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	82		mg/L	1.0	1.0	325.2
	Anly Batch: 680-116460	Date Analyzed	09/05/2008 1703			
Nitrate as N	0.0 ND -0.85 "u"		mg/L	-0.050 0.085	1.0	353.2
	Anly Batch: 680-115841	Date Analyzed	08/28/2008 1635			
Sulfate	170		mg/L	25	5.0	375.4
	Anly Batch: 680-116241	Date Analyzed	09/03/2008 1500			
Total Organic Carbon	3.3		mg/L	1.0	1.0	415.1
	Anly Batch: 680-116685	Date Analyzed	09/08/2008 1805			

Analyte	Result	Qual	Units	RL	Dil	Method
Alkalinity	530		mg/L	1.0	1.0	310.1
	Anly Batch: 680-116120	Date Analyzed	09/02/2008 1518			
Carbon Dioxide, Free	27	B	mg/L	1.0	1.0	310.1
	Anly Batch: 680-116120	Date Analyzed	09/02/2008 1518			

Client Sample ID: GM-58A-F(0.2)-0808

Lab Sample ID: 680-39907-6

Date Sampled: 08/27/2008 1350

Client Matrix: Water

Date Received: 08/28/2008 0905

Analyte	Result	Qual	Units	RL	Dil	Method
Dissolved Organic Carbon-D	2.8		mg/L	1.0	1.0	415.1
	Anly Batch: 680-116697	Date Analyzed	09/08/2008 1910			

DATA REPORTING QUALIFIERS

Client: Solutia Inc.

Job Number: 680-39907-1

Sdg Number: KOM01

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	F	RPD of the MS and MSD exceeds the control limits
	X	Surrogate exceeds the control limits
GC VOA		
	U	Indicates the analyte was analyzed for but not detected.
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
General Chemistry		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	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.