



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 4**

Science and Ecosystem Support Division  
Enforcement and Investigations Branch  
980 College Station Road  
Athens, Georgia 30605-2720

February 28, 2012

**4SESD-EIB**

**MEMORANDUM**

**SUBJECT:** Final Report for Capitol City Plume Site  
Montgomery, Alabama  
SESD Project #12-0040

**FROM:** Kevin Simmons, Life Scientist *KS*  
Superfund and Air Section

**THRU:** Laura Ackerman, Chief *Laura Ackerman*  
Superfund and Air Section

**TO:** Scott Miller, RPM  
Superfund Division

Attached is the final report for the Capitol City Plume sampling investigation that was conducted the week of October 27, 2011 in Montgomery, Alabama. Please send questions or comments to Kevin Simmons at [simmons.kevin@epa.gov](mailto:simmons.kevin@epa.gov) or call 706.355.8730.

Attachment



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United States Environmental Protection Agency  
Region 4

Science and Ecosystem Support Division  
980 College Station Road  
Athens, Georgia 30605-2720



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**Sampling Investigation Report**

**Capitol City Plume**

**Montgomery, Alabama**  
**Conducted October 24- 27, 2011**  
**Report Issued February 28, 2012**

**SESD Project Identification Number: 12-0040**

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**Requestor: Scott Miller**  
Superfund Division  
61 Forsyth St. SW  
Atlanta, Georgia 30303-8960

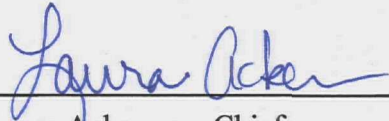
**SESD Project Leader: Kevin Simmons**  
Superfund and Air Section  
980 College Station Road  
Athens, Georgia 30605-2720



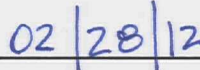
**Title and Approval Sheet**

Title: Sampling Investigation Report for Capitol City Plume  
Final Report

**Approving Official:**



Laura Ackerman, Chief  
Superfund and Air Section  
Enforcement & Investigations Branch



Date

**SESD Project Leader:**



Kevin Simmons, Life Scientist  
Superfund and Air Section  
Enforcement & Investigations Branch



Date

**Sampling Investigation Report**  
**Capitol City Plume**  
**SESD Project ID Number: 12-0040**  
**Conducted October 24-27, 2011**

**INTRODUCTION**

During the week of October 24, 2011 representatives of the US EPA Region 4 Science and Ecosystem Support Division (SESD) conducted a sampling investigation at the Capitol City Plume site in Montgomery, Alabama. The investigation was requested by Scott Miller, Remedial Project Manager, Region 4 Superfund Division. The following personnel participated in the investigation:

<u>NAME</u>	<u>ORGANIZATION</u>	<u>DUTIES</u>
Kevin Simmons	US EPA SESD	Project Leader
Jon Vail	US EPA SESD	Safety Officer/Sampler
Stephen Camp	ILS/ ESAT Contractor	Sampler
Mark Stanley	ILS/ESAT Contractor	Sampler/Sample Custodian

**BACKGROUND**

The Capital City Plume is an area of groundwater contamination identified in downtown Montgomery, Alabama which has affected several public water supply wells. **Table 1** lists the relevant well details and **Figure 1** presents the location of the 13 monitor wells that were sampled. The main contaminant of concern is tetrachloroethylene (PCE). Trichloroethylene (TCE) and trace metals have also been previously detected. The Capital City Plume Site is proposed for inclusion on the National Priorities List (NPL) and is currently being evaluated for potential remediation strategies.

**SUMMARY**

Tetrachloroethylene (PCE) was detected in eight well samples, of which, five samples were above the National Primary Drinking Water Regulations Maximum Contaminant Level (MCL) of 5µg/l. Trichloroethylene (TCE) was detected in six well samples with none above the MCL of 5µg/l. Chromium was detected in all but one well sample with two samples above the MCL of 100µg/l. Cadmium was detected in six samples with only two above the MCL of 5µg/l. Lead was detected in 12 well samples with only one above the MCL of 15µg/l.

**Table 1** lists the monitor wells sampled including field parameter measurements. **Tables 2 and 3** contain the analytical results for volatile organic compounds and metals, respectively, above the reporting limit. **Table 4** lists the volatile organic compounds (VOCs) and metals results above the maximum contaminant level (MCL). **Figure 1** is an updated map with recent imagery showing the locations of the 13 wells sampled during this event. A copy of the field logbook is attached as **Appendix A**. All analytical data sheets from the SESD laboratory are attached as **Appendix B**.

## INVESTIGATION DETAILS

~~PCE was detected in eight of the 13 well samples and six showed detectable concentrations of TCE.~~  
PCE concentrations in five of the wells were above the MCL of 5µg/l while TCE concentrations were below the MCL of 5µg/l. The PCE concentrations for the following samples: MW2S, MW4S, MW5I, MW8S and MW12S, were above the MCL.

Chromium was detected in 12 of 13 wells with concentrations above the MCL of 100µg/l in samples MW1I and MW1S. Cadmium was detected in six wells with concentrations above the MCL of 5µg/l in samples MW1S and MW9S. Lead was detected in 11 wells with concentrations above the MCL of 15µg/l in sample MW2S. Mercury was detected in four wells but only one sample, MW2S, was above the MCL of 2µg/l with a result of 2.2µg/l.

Two samples for metals were collected from well MW12S. The original metals sample collected from well MW12S had a turbidity reading of 174 NTU. A second metals sample, MW12SR, was collected the following day with an effort to minimize turbidity and achieved a turbidity reading of 12 NTU. The metals results for sample MW12SR indicated significantly lower concentrations for arsenic, chromium and lead. The following analytes showed reduced concentrations associated with lower turbidity: arsenic at 1.8µg/l to not detected; chromium at 34µg/l to 5.7µg/l; lead at 7.4µg/l to not detected and mercury at 0.48µg/l to not detected.

**Table 1**  
**Monitoring Well Details**  
**10/24-26/2012**

MW ID	TD BLS	Water Level ft	pH	Spec Cond	Temp °C	Turbidity NTU	DO mg/l	ORP mV	LATITUDE	LONGITUDE
MW1S	51.96	39.24	5.08	235.1	22.8	1.16	5.21	258.9	32.379351983	-86.304857322
MW1I	141.76	40.21	5.66	59.0	21.2	1.24	4.11	235.0	32.379353914	-86.304722222
MW2S	59.87	41.31	5.01	270.1	24.0	8.31	5.84	264.1	32.380341647	-86.304729461
MW4S	38.75	32.24	5.55	341	23.2	0.25	3.46	243.6	32.378892253	-86.307361453
MW5I	159.37	58.31	5.47	63.2	21.0	0.57	3.97	214.6	32.379826858	-86.302797878
MW7S	96.71	35.66	5.76	71.3	21.4	1.24	2.19	202.8	32.380607136	-86.305494539
MW7I	128.85	35.70	5.11	219.6	21.4	0.10	6.94	258.5	32.380583561	-86.305492083
MW8S	52.20	37.11	5.05	210.2	22.7	0.48	6.00	240.0	32.382272053	-86.306257744
MW8I	114.73	37.01	5.71	56.8	21.3	1.72	4.77	162.8	32.382258114	-86.306258028
MW9S	71.76	55.15	4.94	160.4	22.4	1.32	5.87	268.2	32.376451747	-86.305845192
MW10S	71.91	56.94	5.28	230.4	22.7	0.54	6.10	234.4	32.378254747	-86.303974122
MW12S	41.88	26.20	5.55	204	21.7	4.71	4.13	190.5	32.384399603	-86.306438603
MW12I	104.69	26.24	6.11	81.2	21.0	35.1	2.31	78.8	32.384409575	-86.306454786

**Notes:**

MWID = monitor well identification.

TD BLS= total depth below land surface.

Water Level – feet below top of casing

pH – Standard units

specific conductivity - µmhos/cm

NTU – Nephelometric Turbidity Units

DO – dissolved oxygen

ORP – oxidation reduction potential

LATITUDE and LONGITUDE are in North American Datum of 1983 (NAD83).

SESD Project ID # 12-0040

**Table 2**  
**Volatile Organic Compound Results**

Station ID		<b>MW10S</b>	<b>MW12S</b>	<b>MW11</b>	<b>MW1S</b>	<b>MW2S</b>
Sample ID		MW10S-1011	MW12S-1011	MW11-1011	MW1S-1011	MW2S-1011
Sample Date		10/26/2011	10/24/2011	10/25/2011	10/25/2011	10/26/2011
Sample Time		09:05	16:45	16:35	17:05	14:30
Analyte	Units					
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/l	-	-	-	-	0.17 J,Q-2
Chloroform	ug/l	0.88	0.68	0.22 J,Q-2	14	1.2
cis-1,2-Dichloroethene	ug/l	-	0.48 J,Q-2	-	-	-
Methyl T-Butyl Ether (MTBE)	ug/l	-	0.20 J,Q-2	-	-	-
Tetrachloroethene (Tetrachloroethylene, PCE)	ug/l	-	120	0.28 J,Q-2	1.5	44
Trichloroethene (Trichloroethylene)	ug/l	-	0.64	-	-	0.18 J,Q-2
Trichlorofluoromethane (Freon 11)	ug/l	-	0.21 J,Q-2	-	-	-

Station ID		<b>MW4S</b>	<b>MW4S</b>	<b>MW5I</b>	<b>MW7I</b>	<b>MW8S</b>	<b>MW9S</b>
Sample ID		MW4S-1011	MW4SD-1011	MW5I-1011	MW7I-1011	MW8S-1011	MW9S-1011
Sample Date		10/26/2011	10/26/2011	10/25/2011	10/25/2011	10/25/2011	10/26/2011
Sample Time		13:05	13:10	14:30	11:00	09:40	10:20
Analyte	Units						
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/l	-	-	-	-	0.32 J,Q-2	-
Chloroform	ug/l	0.66	0.67	-	0.22 J,Q-2	0.41 J,Q-2	1.2
cis-1,2-Dichloroethene	ug/l	2.2	2.2	-	-	-	-
Methyl T-Butyl Ether (MTBE)	ug/l	-	-	-	-	-	-
Tetrachloroethene (Tetrachloroethylene, PCE)	ug/l	38	38	20	2.1	55	-
Trichloroethene (Trichloroethylene)	ug/l	2.8	2.8	0.57	-	0.72	2.1
Trichlorofluoromethane (Freon 11)	ug/l	-	-	-	-	0.23 J,Q-2	-

**Data qualifiers:**

- J** the identification of the analyte is acceptable; the reported value is an estimate.
- Q-2** result greater than the MDL but less than MRL.



**Table 3  
Metals Results**

Station ID		<b>MW10S</b>	<b>MW12I</b>	<b>MW12S</b>	<b>MW12S</b>	<b>MW1I</b>	<b>MW1S</b>	<b>MW2S</b>
Sample ID		MW10S-1011	MW12I-1011	MW12S-1011	MW12SR-1011	MW1I-1011	MW1S-1011	MW2S-1011
Sample Date		10/26/2011	10/24/2011	10/24/2011	10/25/2011	10/25/2011	10/25/2011	10/26/2011
Sample Time		09:05	15:40	16:45	17:40	16:35	17:05	14:30
Analyte	Units							
Aluminum	ug/l	4600	670	5100	400	420	13000	37000
Arsenic	ug/l	-	-	1.8	-	-	1.6	3.9
Barium	ug/l	79	17	100	79	40	160	210
Beryllium	ug/l	-	-	-	-	-	-	3.3
Cadmium	ug/l	1.2	-	-	-	1.7	14	-
Calcium	ug/l	12000	4700	12000	12000	5800	13000	17000
Chromium	ug/l	32	6.5	34	5.7	110	920	47
Cobalt	ug/l	-	-	-	-	-	-	6.4
Copper	ug/l	16	-	-	-	10	35	11
Iron	ug/l	5500	830	8900	590	1000	12000	40000
Lead	ug/l	3.3	-	7.4	-	1.7	6.8	16
Magnesium	ug/l	5300	740	3800	3400	540	8600	10000
Manganese	ug/l	46	47	190	21	22	88	610
Mercury	ug/l	0.15 QM-2	-	0.48	-	-	0.24	2.2
Molybdenum	ug/l	-	-	-	-	-	16	-
Nickel	ug/l	17	-	-	-	31	22	19
Potassium	ug/l	3000	1900	4100	3800	1800	5700	8000
Selenium	ug/l	3.0	-	2.0	2.1	-	2.1	2.6
Sodium	ug/l	25000	12000	19000	18000	5000	19000	24000
Strontium	ug/l	64 J,QC-5	93 J,QC-5	87 J,QC-5	82 J,QC-5	51 J,QC-5	120 J,QC-5	130 J,QC-5
Titanium	ug/l	44	11	68	6.2	9.6	150	140
Vanadium	ug/l	8.1	-	9.3	-	-	16	52
Yttrium	ug/l	7.1	-	9.1	-	-	18	36
Zinc	ug/l	76	22	66	34	94	80	84

**Table 3  
Metals Results (continued)**

Station ID		<b>MW4S</b>	<b>MW4S</b>	<b>MW5I</b>	<b>MW7I</b>	<b>MW7S</b>	<b>MW8I</b>	<b>MW8S</b>	<b>MW9S</b>
Sample ID		MW4S-1011	MW4SD-1011	MW5I-1011	MW7I-1011	MW7S-1011	MW8I-1011	MW8S-1011	MW9S-1011
Sample Date		10/26/2011	10/26/2011	10/25/2011	10/25/2011	10/25/2011	10/25/2011	10/25/2011	10/26/2011
Sample Time		13:05	13:10	14:30	11:00	11:50	09:00	09:40	10:20
Analyte	Units								
Aluminum	ug/l	2500	2800	760	120	100	840	690	2700
Arsenic	ug/l	-	-	-	-	-	1.9	-	-
Barium	ug/l	590	630	39	83	18	26	59	190
Beryllium	ug/l	-	-	-	-	-	-	-	-
Cadmium	ug/l	-	-	2.1	-	-	-	0.53	19
Calcium	ug/l	9800	9700	6900	14000	4100	3900	9200	8700
Chromium	ug/l	14	14	44	29	-	36	6.8	34
Cobalt	ug/l	-	-	-	-	-	-	-	-
Copper	ug/l	-	-	21	-	-	28	-	57
Iron	ug/l	3400	3800	1700	210	-	1500	930	3000
Lead	ug/l	2.1	2.2	2.8	1.8	-	2.2	1.0	3.8
Magnesium	ug/l	5100	5200	1000	2300	550	440	3000	4600
Manganese	ug/l	38	40	66	8.8	11	82	22	41
Mercury	ug/l	-	-	-	-	-	-	-	-
Molybdenum	ug/l	-	-	-	-	-	-	-	-
Nickel	ug/l	-	-	26	-	-	22	-	25
Potassium	ug/l	12000	12000	2200	2800	1700	1500	3600	3300
Selenium	ug/l	4.4	4.1	-	-	-	-	-	-
Sodium	ug/l	43000	43000	6000	10000	8700	4400	18000	13000
Strontium	ug/l	73 J,QC-5	74 J,QC-5	83 J,QC-5	100 J,QC-5	87 J,QC-5	44 J,QC-5	92 J,QC-5	68 J,QC-5
Titanium	ug/l	29	34	19	-	-	25	11	34
Vanadium	ug/l	-	-	-	-	-	-	-	-
Yttrium	ug/l	3.5	3.8	-	-	-	-	-	4.8
Zinc	ug/l	21	21	180	220	35	91	60	140

**Data qualifiers:**

- J** the identification of the analyte is acceptable; the reported value is an estimate.
- QC-5** calibration check standard less than method control limits.
- QM-2** matrix spike recovery greater than method control limits

**Table 4  
Results Above MCL**

Station ID Sample ID Sample Date Sample Time			<b>MW1I</b> MW1I-1011 10/25/2011 16:35	<b>MW1S</b> MW1S-1011 10/25/2011 17:05	<b>MW2S</b> MW2S-1011 10/26/2011 14:30	<b>MW4S</b> MW4S-1011 10/26/2011 13:05	<b>MW4S</b> MW4SD-1011 10/26/2011 13:10
Analyte	Units	<b>MCL ug/l</b>					
Cadmium	ug/l	<b>5</b>	-	14	-	-	-
Chromium	ug/l	<b>100</b>	110	920	-	-	-
Lead	ug/l	<b>15</b>	-	-	16	-	-
Tetrachloroethene (Tetrachloroethylene)	ug/l	<b>5</b>	-	-	44	38	38

Station ID Sample ID Sample Date Sample Time			<b>MW5I</b> MW5I-1011 10/25/2011 14:30	<b>MW8S</b> MW8S-1011 10/25/2011 09:40	<b>MW9S</b> MW9S-1011 10/26/2011 10:20	<b>MW12S</b> MW12S-1011 10/24/2011 16:45
Analyte	Units	<b>MCL ug/l</b>				
Cadmium	ug/l	<b>5</b>	-	-	19	-
Chromium	ug/l	<b>100</b>	-	-	-	-
Lead	ug/l	<b>15</b>	-	-	-	-
Tetrachloroethene (Tetrachloroethylene)	ug/l	<b>5</b>	20	55	-	120



# Figure 1 Capitol City Plume Well Locations





## METHODOLOGY

Field activities were conducted in accordance with SESD's Field Branches Management and Quality System Procedures and the following SESD field measurement and sampling operating procedures:

- SESDPROC-100-R2, Field pH Measurement
- SESDPROC-101-R3, Field Specific Conductance Measurement
- SESDPROC-102-R3, Field Temperature Measurement
- SESDPROC-103-R2, Field Turbidity Measurement
- SESDPROC-105-R1, Groundwater Level and Well Depth Measurement
- SESDPROC-106-R2, Field DO Measurement
- SESDPROC-113-R0, Field ORP Measurement
- SESDPROC-202-R2, Management of Investigation Derived Waste
- SESDPROC-203-R3, Pump Operation
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination
- SESDPROC-209-R2, Packing, Marking, Labeling & Shipping of Environmental & Waste Samples
- SESDPROC-301-R1, Groundwater Sampling

All field measurement and sampling procedures were performed by the SESD Enforcement and Investigations Branch and ILS/ESAT personnel. Chain of custody documents were prepared and signed by Mark Stanley and Kevin Simmons.

Samples were analyzed at the SESD laboratory in accordance with the Analytical Support Branch (ASB) Laboratory Operations and Quality Assurance Manual, July 2011. The ASB laboratory is accredited by the National Environmental Laboratory Accreditation Conference (NELAC). Analytical methods for the analyses conducted are: total metals by EPA Methods 200.7 and 200.8 and volatile organics by EPA 8260C.

## FIELD QUALITY CONTROL

One duplicate groundwater sample was collected and analyzed. The analytical results for sample MW4S-1011 and its duplicate MW4SD-1011 showed excellent correlation. See tables on pages 5 and 7.

A trip blank for volatile organics, TB01-1011, was prepared by the SESD laboratory to accompany the samples from the field to the laboratory. The trip blank contained no analytes at or above the reporting limit.

Preservative blank, PB18-1011, for metals analysis was also prepared by the SESD laboratory, carried to and preserved in the field. The preservative blank contained no analytes at or above the reporting limit, although the reporting level for arsenic was elevated due to trace amounts of the analyte in the method blank. The elevated reporting limit for arsenic applied to 12 of the 16 metals samples, but does not affect the interpretation of the groundwater results since the levels detected were below the MCL of 10µg/l.

## CONCLUSION

The analytical results from this sampling event will be reviewed by the EPA RPM and potentially responsible parties (PRPs) to determine if further action is required.

# Appendix A

## Copy of Field Logbook

Logbook 1 of 1	38
<b>Total pages</b>	<b>38</b>

# Appendix B

## Analytical Data Sheets

<u>Analytical Parameters</u>	<u>Matrix</u>	<u>Method</u>	<u>Pages</u>
Volatile Organics	Groundwater	EPA 8260C	70
Mercury	Groundwater	EPA 245.1	23
Total Metals	Groundwater	EPA 200.7/200.8	20
<b>Total pages</b>			<b>113</b>

United States Environmental Protection Agency  
Region 4

Science and Ecosystem Support Division  
980 College Station Road  
Athens, Georgia 30605-2720



**CAPITAL CITY PLUME SITE**  
Montgomery, Montgomery County, Alabama  
SESD Project ID #: 12-0040  
Project Leader: Kevin Simmons

**FIELD SAMPLING AND MEASUREMENT LOGBOOK**

Book 1 of 1  
Inclusive Dates: 10/24-27/2011

**List of personnel in logbook:**

Name	Initials	Organization/Duties
Kevin Simmons	KS	Project Leader, Team Leader
Jon Vail		Sampler
Mark Stanley		Sampler / Sample Custodian
Stephen Camp		Sampler

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**Table 1. Relevant Monitor Well Details, Capital City Plume, Montgomery, Alabama**

MWID	TD BLS	TOC WL*	EST 1 VOL	EST 3 VOL	LATITUDE	LONGITUDE
MW1S	51.96	38.28	2.18	6.56	32.379351983	-86.304857322
MW1I	141.76	39.58	16.34	49.04	32.379353914	-86.304722222
MW2S	59.87	40.78	3.05	9.16	32.380341647	-86.304729461
MW4S	38.75	31.7	1.13	3.38	32.378892253	-86.307361453
MW5I	159.37	58.5	16.14	48.42	32.379826858	-86.302797878
MW7S	96.71	35	9.87	29.62	32.380607136	-86.305494539
MW7I	128.85	35	15.02	45.05	32.380583561	-86.305492083
MW8S	51.77	36.26	2.48	7.44	32.382272053	-86.306257744
MW8I	119.73	36.27	13.35	40.06	32.382258114	-86.306258028
MW9S	71.76	54.24	2.8	8.41	32.376451747	-86.305845192
MW10S	71.91	56.34	2.49	7.47	32.378254747	-86.303974122
MW12S	41.88	25.6	16.28	48.84	32.384399603	-86.306438603
MW12I	104.69	25.5	12.72	38.16	32.384409575	-86.306454786

**Notes:**

**MWID** = monitor well identification.

**TD BLS** = total depth below land surface.

**TOC WL\*** = water level measured from top of casing 2/16/2002.

**EST 1 VOL** = estimated 1 volume (in gallons) based on a 2 inch well.

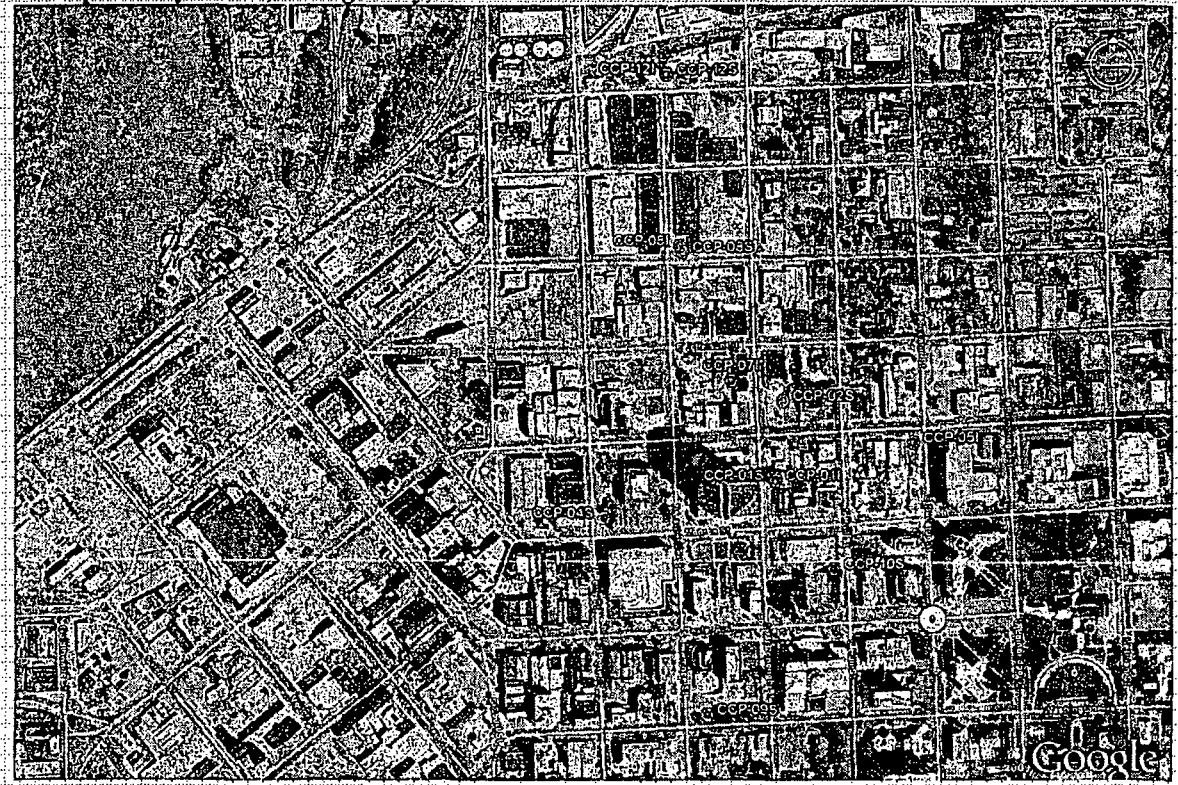
**EST 3 VOL** = estimated 3 volumes (gallons).

**LATITUDE** and **LONGITUDE** are in North American Datum of 1983 (NAD83).

**Figure 1: Locations of monitor wells to be sampled.**

(note: MW7S is next to MW7I but not shown on figure)

Capital City Plume, Montgomery, Alabama



# Instrument Calibration Log

- 1 Instrument Thermo (pH, SC, Turbidity, Temperature) SESED ID No 10090702 Calibrator's Init. MS
- 2 Instrument HACH (pH, SC, Turbidity, Temperature) SESED ID No 090611-05 MS
- 3 Instrument Thermo (pH, SC, Turbidity, Temperature) SESED ID No 090310-02 MS PO/GRP
- Instrument \_\_\_\_\_ (pH, SC, Turbidity, Temperature) SESED ID No \_\_\_\_\_

**Calibration:** Date \_\_\_\_\_ Time \_\_\_\_\_

pH 4 Std. Manufacturer:	Lot#	2010525	Expiration:	10/12
pH 7 Std. Manufacturer:	Lot#	2002015	Expiration:	1/12
pH 10 Std. Manufacturer:	Lot#	0W1C	Expiration:	4/12
Spec Conductivity Low Std.	$\mu\text{s/cm}$ , Manufacturer	0W1	Lot #	Exp. 4/12
Spec Conductivity High Std.	$\mu\text{s/cm}$ , Manufacturer		Lot #	Exp.
Turbidity Low Std. Manufacturer	HACH	Lot # A214	Calibration Due:	8/12
Turbidity Mid Std. Manufacturer	HACH	Lot # A216	Calibration Due:	8/12
Turbidity High Std. Manufacturer	HACH	Lot # A209	Calibration Due:	8/12
NIST Thermometer:	063010-01	Calibration Due:	5/13/12	

**Pre-calibration readings:**

pH: 4 = 4.01      Spec. Cond.: 1413  $\mu\text{s/cm}$  = 1420  $\mu\text{s/cm}$   
 7 = 7.04      \_\_\_\_\_  $\mu\text{s/cm}$  = \_\_\_\_\_  $\mu\text{s/cm}$   
 10 = 10.05

Turbidity: Low: 20 NTUs = 20.1 NTUs  
 Mid: 100 NTUs = 100.3 NTUs  
 High: 800 NTUs = 803 NTUs

Temperature: NIST = 25.5 Deg. C      Instrument (specify) 25.4 (pH) = 25.4 Deg C

**Calibration/verification readings:**

pH: 4 = 4.01      Spec. Cond.: 1413  $\mu\text{s/cm}$  = 1413  $\mu\text{s/cm}$   
 7 = 7.00      \_\_\_\_\_  $\mu\text{s/cm}$  = \_\_\_\_\_  $\mu\text{s/cm}$   
 10 = 10.00      \_\_\_\_\_  $\mu\text{s/cm}$  = \_\_\_\_\_  $\mu\text{s/cm}$   
 Slope = 96.4

Turbidity: Low: \_\_\_\_\_ NTUs = \_\_\_\_\_ NTUs      cell: 0.468  
 Mid: \_\_\_\_\_ NTUs = \_\_\_\_\_ NTUs  
 High: \_\_\_\_\_ NTUs = \_\_\_\_\_ NTUs

Temperature: NIST = \_\_\_\_\_ Deg. C      Instrument (specify) \_\_\_\_\_ = \_\_\_\_\_ Deg C

**Post-calibration readings:**

pH: 4 = 4.01      Spec. Cond.: 1413  $\mu\text{s/cm}$  = 1409  $\mu\text{s/cm}$   
 7 = 7.01      \_\_\_\_\_  $\mu\text{s/cm}$  = \_\_\_\_\_  $\mu\text{s/cm}$   
 10 = 10.01

Turbidity: Low: \_\_\_\_\_ NTUs = \_\_\_\_\_ NTUs  
 Mid: \_\_\_\_\_ NTUs = \_\_\_\_\_ NTUs  
 High: \_\_\_\_\_ NTUs = \_\_\_\_\_ NTUs

*MS*

*MS*

Temperature: NIST = 21.3 Deg. C

Instrument (specify) Thermo (PH) = \_\_\_\_\_ Deg C

**End Check Readings:**      Date \_\_\_\_\_      Time \_\_\_\_\_

pH 4 Std. = 4.04 SUs

pH 7 Std. = 6.99 SUs

pH 10 Std. = 10.08 SUs

Spec Conductivity Low Std. = 1420  $\mu$ s/cm

Spec Conductivity High Std. = \_\_\_\_\_  $\mu$ s/cm

Turbidity Low Std. = 21.1 NTUs

Turbidity Mid Std. = 103 NTUs

Turbidity High Std. = 808 NTUs

NIST Thermometer: 21.3 Deg. C      Instrument 1 Deg. C      21.4

Notes (Other instruments/calibration standards):

D. / ORP

	<u>PRE</u>	<u>CFR</u>	<u>POST</u>	<u>END</u>		
DO	101.4	100.0	99.9	99.8		
ORP	234.2	231.0	230.6	239.7	Temp @	25.0

ty

MS

Date: 10/24/11 Station ID: MW12I Sample ID: MW12I-1011

Sample Team: \_\_\_\_\_ or Init. BS  
Jon Hill \_\_\_\_\_ or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet

Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement
- SESDPROC-101-R2, Field Specific Conductance Measurement
- SESDPROC-102-R2, Field Temperature Measurement
- SESDPROC-103-R2, Field Turbidity Measurement
- SESDPROC-105-R1, Groundwater Level Measurement
- SESDPROC-106-R2, Field DO Measurement
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste
- SESDPROC-203-R2, Pump Operation
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination
- SESDPROC-301-R2, Groundwater Sampling

**Other Procedures, if applicable:**

Purged w/ grout, sonided w/ boiler

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):  
\_\_\_\_\_

**Description of Media/Sample:**

groundwater

**Other pertinent information (weather conditions, etc.):**

SUNNY

Filtered Sample: Yes or  No If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: Yes or  No Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: 2 in. 53 Calculations:

Well Depth 104.69 ft

Water Level 26.24 ft

Water Column 78.45 ft

Purge Volume: ~39 gallons

(Continued on next page)

BS



Continuation of sample MW12I-101

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_ *See page 4*

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (°Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
1434	—	—					Pump On
1438	7.77	113.2	21.4	1.27	3.28	265.9	4 gal
1441	7.36	113.2	21.4	2.19	2.91	252.4	8 "
1448	6.91	111.2	21.3	25.4	1.55	62.5	16 Gal
1459	6.51	99.0	21.3	13.0	2.06	15.5	24 Gal
15:03	6.38	96.1	21.0	11.9	2.11	+ 4.9	32 Gal
15:06	6.32	88.9	21.0	75.4	2.37	29.5	40 Gal
1510	6.25	85.0	21.0	46.5	2.37	64.8	44 "
1516	—	—	—	28.6	—	—	48 "
1523	6.11	81.2	21.0	35.1	2.37	78.8	56
1540	—	—					Sample Collection Time

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
VOCs	40ml	3	HCl
Metals	1L poly	1	HNO <sub>3</sub>

MS/MSD? Y or (N)  All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

	pH	µS	°C	NTU	DO	ORP	Vol
1537	6.09	79.5	21.1°	10.0	2.29	93.0	60 gal
1535	—	—	—	9.9	—	—	—
1545	—	—	—	13.0	—	in bottle	—

Date: 10/24/11 Station ID: MW125 Sample ID: MW125-1011

Sample Team: \_\_\_\_\_ or Init. KS  
Jon Vail or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet

Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement [x]
- SESDPROC-101-R2, Field Specific Conductance Measurement [x]
- SESDPROC-102-R2, Field Temperature Measurement [x]
- SESDPROC-103-R2, Field Turbidity Measurement [x]
- SESDPROC-105-R1, Groundwater Level Measurement [x]
- SESDPROC-106-R2, Field DO Measurement [x]
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP [x]

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste [x]
- SESDPROC-203-R2, Pump Operation [x]
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination [x]
- SESDPROC-301-R2, Groundwater Sampling [x]

**Other Procedures, if applicable:**

Purged w/ Gundfos sampled with

**Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):**  
\_\_\_\_\_

**Description of Media/Sample:**

groundwater

**Other pertinent information (weather conditions, etc.):**

sunny

Filtered Sample: Yes or No If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: Yes or No Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: 2 in. 55 Calculations:

Well Depth 41.88 ft

Water Level 26.20 ft

Water Column 15.68 ft

Purge Volume: ~8 gallons

(Continued on next page)

KS

Continuation of sample MW125

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_ - see page 4

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
1615							Pump On
1617	5.95	202.8	21.6	32.9	3.98	162.8	3 gal
1626	5.64	<del>219.7</del> 203.9	21.6	14.4	3.82	177.4	6.5
1631	5.58	203.7	21.6	9.69	3.88	182.5	8.5
1635	5.54	203.5	21.6	5.96	3.89	185.9	10.5
1639	5.55	204.0	21.7	4.71	4.13	190.5	12.5
1645	-	-	-	174 in bottle	-	-	-
1645							Sample Collection Time

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
VOCs	40ml	3	NaCl
Metals	12 poly	1	HNO3

MS/MSD? Y or  N  All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

NTU = 174 in metals container.

10/25/11 - resampled 125 to get lower turbidity.  
 Pulled one bailer & partially filled 12 poly. Pulled 1st  
 1st bailer 74 NTU, 2nd bailer 32.1 NTU. Pulled 2nd  
 bailer & finished filling 12 poly. Final turbidity  
 12 NTU from metals container. Collected 1740.

1745 - pH = 5.6 | 203.1 µS | 21.7°C | 5.62 mg/L | 245.5

Sample ID MW125R 1011

4

Date: 10/25/11 Station ID: MW 81 Sample ID: MW 8I1011

Sample Team: \_\_\_\_\_ or Init. RS  
\_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W  
Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet  
Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N  
File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location: \_\_\_\_\_  
\_\_\_\_\_

SESD Operating Procedures: *Check as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement []
- SESDPROC-101-R2, Field Specific Conductance Measurement []
- SESDPROC-102-R2, Field Temperature Measurement []
- SESDPROC-103-R2, Field Turbidity Measurement []
- SESDPROC-105-R1, Groundwater Level Measurement []
- SESDPROC-106-R2, Field DO Measurement []
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP []

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste []
- SESDPROC-203-R2, Pump Operation: []
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination []
- SESDPROC-301-R2, Groundwater Sampling []

**Other Procedures, if applicable:**

Purged w/ Grundfos, sampled with bailer.

**Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):**

**Description of Media/Sample:**

groundwater

**Other pertinent information (weather conditions, etc.):**

Sunny

Filtered Sample: Yes or No If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: Yes or No Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: 2 in. Calculations:

Well Depth 114.73 ft

Water Level 37.01 ft

Water Column 77.72 ft

Purge Volume: 239 gallons

*(Continued on next page)*

RS

Continuation of sample MW 8I

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_ - see page 4

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
0818	—	—					Pump On
0821	5.83	37.1	21.3	6.10	7.73	167.4	4 gal
0825	5.74	36.9	21.2	14.7	7.84	165.4	8 "
0829	5.72	48.1	21.1	70.8	6.33	166.3	12 "
0833	5.79	53.3	21.0	15.4	5.57	165.3	16 "
0837	5.74	55.6	21.0	6.39	5.10	163.3	20 " 24 "
8:44	5.72	55.8	21.2	3.52	4.97	161.1	32 "
0849	5.75	56.6	21.3	2.07	4.84	162.1	36 "
0853	5.71	56.8	21.3	1.72	4.77	162.8	42 "
0900	—	—					Sample Collection Time

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
VOCs	40ml	3	NI
Metals	12 pdv	1	HNO3

MS/MSD? Y or  N  All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

Southern most well in cluster.  
27.4 NTU in metals container.

Date: 10/25/11 Station ID: MW85 Sample ID: MW85 101

Sample Team: \_\_\_\_\_ or Init. BS  
\_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W  
Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet  
Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N  
File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement []
- SESDPROC-101-R2, Field Specific Conductance Measurement []
- SESDPROC-102-R2, Field Temperature Measurement []
- SESDPROC-103-R2, Field Turbidity Measurement []
- SESDPROC-105-R1, Groundwater Level Measurement []
- SESDPROC-106-R2, Field DO Measurement []
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP []

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste []
- SESDPROC-203-R2, Pump Operation []
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination []
- SESDPROC-301-R2, Groundwater Sampling []

**Other Procedures, if applicable:**

Purged w/ Grinders, sampled w/ bailer

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):  
\_\_\_\_\_

**Description of Media/Sample:**

groundwater

**Other pertinent information (weather conditions, etc.):**

sunny

Filtered Sample: Yes or No If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: Yes or No Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: 2 in. Calculations:

Well Depth 52.20 ft

Water Level 37.11 ft

Water Column <sup>175</sup> 185.09 ft

Purge Volume: ~7.5 gallons

(Continued on next page)

BS

Continuation of sample MW 815 <sup>K5</sup>

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_ - See page 4

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
0913	—	—					Pump On
0915	5.06	211.9	22.7	42.5	—	229.9	4 Gal
0922	5.05	210.4	22.7	1.20	6.45	236.3	7 "
0927	5.05	210.2	22.7	0.48	6.00	240.0	11 "
0940							Sample Collection Time

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
VOCs	40ml	3	HCl
Metals	12 poly	1	HNO3

MS/MSD? Y or  N  All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

15 NTU in metals containers

Date: 10/25/11 Station ID: MW7IS Sample ID: MW7I-1011

Sample-Team: \_\_\_\_\_ or Init. KS  
\_\_\_\_\_ or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet

Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement [ ]
- SESDPROC-101-R2, Field Specific Conductance Measurement [ ]
- SESDPROC-102-R2, Field Temperature Measurement [ ]
- SESDPROC-103-R2, Field Turbidity Measurement [ ]
- SESDPROC-105-R1, Groundwater Level Measurement [ ]
- SESDPROC-106-R2, Field DO Measurement [ ]
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP [ ]

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste [ ]
- SESDPROC-203-R2, Pump Operation [ ]
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination [ ]
- SESDPROC-301-R2, Groundwater Sampling [ ]

Other Procedures, if applicable:  
\_\_\_\_\_

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):  
\_\_\_\_\_

Description of Media/Sample:  
\_\_\_\_\_

Other pertinent information (weather conditions, etc.):  
\_\_\_\_\_

Filtered Sample: *Yes or No* If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: *Yes or No* Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: 2 in. SS Calculations:

Well Depth ~~128.55~~ ft KS 96.71

Water Level 35.70 ft KS 35.66

Water Column ~~93.15~~ ft KS 60.05

Purge Volume: 147 KS gallons ~30 gal

(Continued on next page)

KS



Continuation of sample <sup>15</sup> MW745

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_ - see yellow logbook

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (°Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
1116	-	-					Pump On
1118	5.90	76.1	22.4	1.49	6.61	236.0	2 gal
1122	5.80	74.7	22.1	0.33	2.57	224.6	8 "
1127	5.79	73.3	21.7	0.29	2.19	206.8	12 "
1131	5.81	72.3	21.6	2.08	2.08	209.7	16 "
1135	5.81	71.9	21.5	<del>2.09</del> 3.25	2.09	222.5	20 "
1139	5.76	71.5	21.5	2.07	2.17	181.4	24 "
1143	5.74	71.4	21.4	1.52	2.16	204.5	28 "
1145	5.76	71.3	21.4	1.24	2.19	202.8	30 "
1150							Sample Collection Time

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
VOCs	40ml	3	HCl
Metals	1L poly	1	HNO3

MS/MSD? Y or N

All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

2.20 NTU in metals container

Date: 10/25/11 Station ID: MW 75<sup>KS</sup> Sample ID: MW75-101

Sample Team: \_\_\_\_\_ or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet

Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement [X]
- SESDPROC-101-R2, Field Specific Conductance Measurement [X]
- SESDPROC-102-R2, Field Temperature Measurement [X]
- SESDPROC-103-R2, Field Turbidity Measurement [X]
- SESDPROC-105-R1, Groundwater Level Measurement [X]
- SESDPROC-106-R2, Field DO Measurement [X]
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP [X]

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste [X]
- SESDPROC-203-R2, Pump Operation [X]
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination [ ]
- SESDPROC-301-R2, Groundwater Sampling [X]

**Other Procedures, if applicable:**

Purged w/ Groundfos, sampled with bailer.

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):  
\_\_\_\_\_

**Description of Media/Sample:**

groundwater

**Other pertinent information (weather conditions, etc.):**

Sunny

Filtered Sample: *Yes or No* If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: *Yes or No* Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter:	<u>5</u> in.	Calculations:
Well Depth	<u>98.71</u> ft	128.85
Water Level	<u>35.66</u> ft <sup>KS</sup>	35.70
Water Column	<u>60.05</u> ft	93.15
Purge Volume:	<u>430</u> gallons	~ 47 gals

(Continued on next page)

KS

Continuation of sample

I  
MWT5 15

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_

- see page yellow logbook

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (°Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
1023	—	—					Pump On
1025	5.65	84.9	21.9	0.21	0.66	225.2	5 gal
1031	5.27	193.3	21.4	0.59	6.37	239.3	15 "
1034	5.23	201.1	21.5	0.30	6.73	244.6	20 "
1037	5.18	204.6	21.5	0.16	6.85	248.0	24 "
1040	5.14	210.6	21.5	0.13	6.88	250.3	28 "
1043	5.12	213.7	21.4	0.33	6.93	253.0	32 "
1050	5.10	217.9	21.5	0.11	6.94	256.5	40 "
1055	5.11	219.6	21.4	0.10	6.94	258.5	48 "
11:00							Sample Collection Time

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
VOCs	40ml	3	Nc
Metals	12 poly	1	H <sub>2</sub> O <sub>2</sub>

MS/MSD? Y or (N)

All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

1.75 NTU in metals containers

Date: 10/25/11 Station ID: MW 51 Sample ID: MW 51-1011

Sample Team: \_\_\_\_\_ or Init. KS

\_\_\_\_\_ or Init. \_\_\_\_\_

\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet

Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:

\_\_\_\_\_

SESD Operating Procedures: Check, as appropriate

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement []
- SESDPROC-101-R2, Field Specific Conductance Measurement []
- SESDPROC-102-R2, Field Temperature Measurement []
- SESDPROC-103-R2, Field Turbidity Measurement []
- SESDPROC-105-R1, Groundwater Level Measurement []
- SESDPROC-106-R2, Field DO Measurement []
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP []

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste []
- SESDPROC-203-R2, Pump Operation []
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination []
- SESDPROC-301-R2, Groundwater Sampling []

Other Procedures, if applicable:

\_\_\_\_\_

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

\_\_\_\_\_

Description of Media/Sample:

groundwater

Other pertinent information (weather conditions, etc.):

Filtered Sample: Yes or No If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: Yes or No Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: 2 in. SS Calculations:

Well Depth 159.37 ft

Water Level 58.31 ft

Water Column 101.06 ft

Purge Volume: ~50 gallons

(Continued on next page)

KS

Continuation of sample MW 5J

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_ - see yellow logbook

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (°Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
1347	-	-					Pump On
1349	5.68	65.1	21.7	5.78	3.68	213.8	3.5
1353	5.71	64.4	21.4	1.30	3.63	211.8	8
1357	5.66	64.0	21.2	3.82	3.52	211.4	16
1401	5.65	63.9	21.1	1.77	3.55	211.9	24
1408	5.51	63.6	21.0	0.85	3.59	213.5	32
1413	5.48	63.4	21.0	0.65	3.75	215.3	40
1418	5.45	63.2	21.0	0.63	3.65	214.8	48
1422	5.47	63.2	21.0	0.57	3.97	214.6	52
1430	→	—					Sample Collection Time

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
VOCs	40ml	3 + 3 ms/m30	NCI
Metals	12 poly	1	HNO3

MS/MSD  Y or N  All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

MS/M30 for metals + VOCs.  
20.7 NTU in metals

Date: 10/25/11 Station ID: MW11 Sample ID: MW11-1011

Sample Team: \_\_\_\_\_ or Init. R  
\_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet

Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement [ ]
- SESDPROC-101-R2, Field Specific Conductance Measurement [ ]
- SESDPROC-102-R2, Field Temperature Measurement [ ]
- SESDPROC-103-R2, Field Turbidity Measurement [ ]
- SESDPROC-105-R1, Groundwater Level Measurement [ ]
- SESDPROC-106-R2, Field DO Measurement [ ]
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP [ ]

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste [ ]
- SESDPROC-203-R2, Pump Operation [ ]
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination [ ]
- SESDPROC-301-R2, Groundwater Sampling [ ]

Other Procedures, if applicable:  
\_\_\_\_\_  
\_\_\_\_\_

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):  
\_\_\_\_\_  
\_\_\_\_\_

Description of Media/Sample:  
\_\_\_\_\_  
\_\_\_\_\_

Other pertinent information (weather conditions, etc.):  
\_\_\_\_\_  
\_\_\_\_\_

Filtered Sample: *Yes or No* If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: *Yes or No* Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: 2 in. SS Calculations:

Well Depth 141.76 ft

Water Level 40.21 ft

Water Column 101.55 ft

Purge Volume: ~51 gallons

(Continued on next page)

15

Continuation of sample MW1I

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_ *See yellow logbook*

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
1535	—	—					<i>Pump On</i>
1539	5.61	59.0	22.5	14.6	6.25	277.2	4 gal
1548	5.50	54.9	21.6	1.77	5.83	259.1	12 "
1555	5.62	58.3	21.3	4.26	4.49	246.4	20 "
1603	5.58	58.7	21.2	4.58	4.32	241.5	28 "
1611	5.59	58.9	21.2	2.58	4.23	238.2	36 "
1619	5.67	58.9	21.2	1.63	4.16	236.0	44 "
1626	5.66	59.0	21.2	1.24	4.11	235.0	52 "
1635	—	—					<i>Sample Collection Time</i>

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
VOCs	40ml	3	NI
Metals	12 polyc	1	NNO3

MS/MSD? Y or  N  All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

17.7 NTU in metals containers

Date: 10/25/11 Station ID: MWV15 Sample ID: MWV15-1011

Sample Team: \_\_\_\_\_ or Init. KS  
\_\_\_\_\_ or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W  
Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet  
Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N  
File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement []
- SESDPROC-101-R2, Field Specific Conductance Measurement []
- SESDPROC-102-R2, Field Temperature Measurement []
- SESDPROC-103-R2, Field Turbidity Measurement []
- SESDPROC-105-R1, Groundwater Level Measurement []
- SESDPROC-106-R2, Field DO Measurement []
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP []

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste []
- SESDPROC-203-R2, Pump Operation []
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination []
- SESDPROC-301-R2, Groundwater Sampling []

Other Procedures, if applicable:  
\_\_\_\_\_

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):  
\_\_\_\_\_

Description of Media/Sample:  
groundwater

Other pertinent information (weather conditions, etc.):  
sunny

Filtered Sample: Yes or  No If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: Yes or  No Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: 2 in. SS Calculations:

Well Depth 51.96 ft

Water Level 39.24 ft

Water Column 12.72 ft

Purge Volume: ~ 6.5 gallons

(Continued on next page)

KS



Continuation of sample MWIS

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_ *See yellow logbook*

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
1646	-	-					Pump On
1649	5.12	233.5	22.6	1.93	5.31	265.9	3 gal
1652	5.10	233.6	22.8	8.33	5.24	261.9	5 "
1654	5.08	234.0	22.8	3.42	5.23	261.5	7 "
1656	5.09	234.2	22.8	3.75	5.24	260.0	9 "
1658	5.07	234.7	22.8	1.27	5.21	269.8	10 "
1701	5.08	235.1	22.8	1.16	5.21	268.9	12 "
17:05							Sample Collection Time

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation

MS/MSD? Y or (N)  All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

268 NTU from metal container  
 15 m line with right side of 1st floor window approx  
 12' from wall of house; right of water meter  
 41' m line with left side of 2nd floor window.

Date: 10/26/11 Station ID: MW105 Sample ID: MW105-1011

Sample Team: \_\_\_\_\_ or Init. RS  
\_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W  
Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet  
Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N  
File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement []
- SESDPROC-101-R2, Field Specific Conductance Measurement []
- SESDPROC-102-R2, Field Temperature Measurement []
- SESDPROC-103-R2, Field Turbidity Measurement []
- SESDPROC-105-R1, Groundwater Level Measurement []
- SESDPROC-106-R2, Field DO Measurement []
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP []

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste []
- SESDPROC-203-R2, Pump Operation []
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination []
- SESDPROC-301-R2, Groundwater Sampling []

Other Procedures, if applicable:  
\_\_\_\_\_

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):  
\_\_\_\_\_

Description of Media/Sample:

groundwater

Other pertinent information (weather conditions, etc.):

Sunny

Filtered Sample: Yes or No If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: Yes or No Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: 2 in. 55 Calculations:

Well Depth 71.91 ft

Water Level 56.94 ft

Water Column 14.97 ft

Purge Volume: ~7.5 gallons

(Continued on next page)

RS

Continuation of sample MMV105

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_ See

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
0817							Pump On
0823	5.15	240.0	21.9	159	6.01	216.2	4 gal
0828	5.19	243.6	22.5	5.87	5.98	225.0	6.5 gal
0831	5.23	240.3	22.6	3.16	6.00	227.6	9.0 gal
0835	5.24	239.1	22.6	1.87	6.03	230.2	12.0 Gal
0838	5.25	236.2	22.7	1.19	6.06	231.9	14.0 Gal
0842	5.26	234.3	22.7	0.91	6.07	232.2	16.0 Gal
0845	5.28	232.2	22.7	0.82	6.09	233.5	17.5 Gal
0848	5.28	230.4	22.7	0.54	6.10	234.4	20.0 Gal
0905							Sample Collection Time

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
NOCs	40ml	3	NCl
Metals	1L poly	1	HNO3

MS/MSD? Y or N  All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

5  
987 NCl from metal's container  
is

Date: 10/26/11 Station ID: MW95 Sample ID: MW95-1011

Sample Team: \_\_\_\_\_ or Init. KS

J Veil \_\_\_\_\_ or Init. \_\_\_\_\_

M Stanley + S Camp \_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet

Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement
- SESDPROC-101-R2, Field Specific Conductance Measurement
- SESDPROC-102-R2, Field Temperature Measurement
- SESDPROC-103-R2, Field Turbidity Measurement
- SESDPROC-105-R1, Groundwater Level Measurement
- SESDPROC-106-R2, Field DO Measurement
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste
- SESDPROC-203-R2, Pump Operation
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination
- SESDPROC-301-R2, Groundwater Sampling

Other Procedures, if applicable:

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

Description of Media/Sample:

groundwater

Other pertinent information (weather conditions, etc.):

sunny

Filtered Sample: Yes or  No If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: Yes or  No Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: 2 in. SS Calculations:

Well Depth 71.76 ft

Water Level 55.15 ft

Water Column 16.61 ft

Purge Volume: ~8 gallons

(Continued on next page)

KS

Continuation of sample MW95

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_ *see yellow logbook*

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
0949	4.99	—					Pump On
0953	5.02	157.9	21.8	31.0	6.00	255.9	3 ga
0956	4.96	160.3	22.3	21.5	5.83	261.9	5 "
0959	4.95	158.9	22.4	6.0	5.86	264.0	7 "
1002	4.92	159.0	22.4	3.06	5.87	265.0	9 "
1005	4.93	159.4	22.4	2.36	5.87	265.7	11 "
1009	4.95	159.4	22.5	1.40	5.86	267.9	13 "
1012	4.94	160.4	22.4	1.32	5.87	268.2	16 "
1020	—	—					Sample Collection Time

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
NOCs	40ml	3	HCl
Metals	12 pol	1	HNO3

MS/MSD? Y or (N)  All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

6A.3 NTU from metals containers

Date: 10/26/11 Station ID: MW45 Sample ID: MW45-1011

Sample Team: \_\_\_\_\_ or Init. KS

J Vajr or Init. \_\_\_\_\_

M Stanley & S Camp or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet

Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement [ ]
- SESDPROC-101-R2, Field Specific Conductance Measurement [ ]
- SESDPROC-102-R2, Field Temperature Measurement [ ]
- SESDPROC-103-R2, Field Turbidity Measurement [ ]
- SESDPROC-105-R1, Groundwater Level Measurement [ ]
- SESDPROC-106-R2, Field DO Measurement [ ]
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP [ ]

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste [ ]
- SESDPROC-203-R2, Pump Operation [ ]
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination [ ]
- SESDPROC-301-R2, Groundwater Sampling [ ]

Other Procedures, if applicable:  
\_\_\_\_\_

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):  
\_\_\_\_\_

Description of Media/Sample:

groundwater

Other pertinent information (weather conditions, etc.):

Sunny

Filtered Sample: Yes or No If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: Yes or No Split Sample ID, Date and Time: MW45D-1011

Well Diameter: 2 in. SS Calculations:

Well Depth 38.75 ft

Water Level 32.24 ft

Water Column 6.51 ft

Purge Volume: ~3 gallons

(Continued on next page)

KS

Continuation of sample MW45

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_ *See yellow logbook*

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
1238	—	—					Pump On
1239	5.65	334	23.1	322	4.81	257.0	1.5
1242	5.57	341	22.9	275	4.16	252.1	3
1245	5.57	339	23.1	6.63	3.82	247.5	5
1249	5.56	340	23.2	1.09	3.67	245.4	6.5
1253	5.55	341	23.2	0.25	3.46	243.6	7.5
1305							Sample Collection Time

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
VOCs	40ml	3	HCl
Metals	1 L pad	1	HNO3

MS/MSD? Y or (N)  All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

Well 45 furthest from street, N Perry St.  
 MW45 = 42.6 NTU ~~far~~ from metals container  
 MW450 = 46.3 " " " "  
 USD sample time = 13:10

Date: 10/26/11 Station ID: MW25 Sample ID: MW25-1011

Sample Team: \_\_\_\_\_ or Init. KS

J. Vail \_\_\_\_\_ or Init. \_\_\_\_\_

\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet

Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement
- SESDPROC-101-R2, Field Specific Conductance Measurement
- SESDPROC-102-R2, Field Temperature Measurement
- SESDPROC-103-R2, Field Turbidity Measurement
- SESDPROC-105-R1, Groundwater Level Measurement
- SESDPROC-106-R2, Field DO Measurement
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste
- SESDPROC-203-R2, Pump Operation
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination
- SESDPROC-301-R2, Groundwater Sampling

Other Procedures, if applicable:  
\_\_\_\_\_

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):  
\_\_\_\_\_

Description of Media/Sample:

groundwater

Other pertinent information (weather conditions, etc.):

sunny

Filtered Sample: Yes or No If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: Yes or No Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: 2 in. SS<sup>15</sup> Calculations:

Well Depth 59.87 ft PVC

Water Level 41.31 ft

Water Column 18.56 ft

Purge Volume: ~9 gallons

(Continued on next page)

KS



Continuation of sample MW25

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_ See yellow logbook

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
1350	—	—					Pump On
1351	5.16	274.2	25.6	71000	6.06	251.5	1.5
1354	5.06	273.3	25.1	71000	5.90	242.5	3
1357	5.01	272.3	25.2	207	5.88	238.2	4.5
1401	4.99	272.0	25.2	49.3	5.83	247.6	6
1405	4.99	271.0	25.2	15.9	5.93	253.2	8.5
1409	4.99	270.5	25.1	7.61	5.84	258.1	10
1413	5.00	269.3	25.1	8.15	5.88	261.2	12.5
1419	5.01	270.1	24.0	8.31	5.84	264.1	16
1430	—	—					Sample Collection Time

in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
VOCs	40ml	3	HCl
Metals	1L poly	1	HNO3

MS/MSD? Y or  N  All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.

71000 NTU from metals container

Date: 10/26/11 Station ID: #RADAR# Sample ID: PB18-1011

Sample Team: M Stanley or Init. \_\_\_\_\_

\_\_\_\_\_ or Init. \_\_\_\_\_

\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet

Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N

File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement [ ]
- SESDPROC-101-R2, Field Specific Conductance Measurement [ ]
- SESDPROC-102-R2, Field Temperature Measurement [ ]
- SESDPROC-103-R2, Field Turbidity Measurement [ ]
- SESDPROC-105-R1, Groundwater Level Measurement [ ]
- SESDPROC-106-R2, Field DO Measurement [ ]
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP [ ]

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste [ ]
- SESDPROC-203-R2, Pump Operation [ ]
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination [ ]
- SESDPROC-301-R2, Groundwater Sampling [ ]

Other Procedures, if applicable:  
\_\_\_\_\_

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):  
\_\_\_\_\_

Description of Media/Sample:

Preservative blank

Other pertinent information (weather conditions, etc.):  
\_\_\_\_\_

~~Filtered Sample: Yes or No If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)~~

~~Field Split: Yes or No Split Sample ID, Date and Time: \_\_\_\_\_~~

~~Well Diameter: \_\_\_\_\_ in. Calculations:~~

~~Well Depth \_\_\_\_\_ ft~~

~~Water Level \_\_\_\_\_ ft~~

~~Water Column \_\_\_\_\_ ft~~

~~Purge Volume: \_\_\_\_\_ gallons~~

*(Continued on next page)*

JS

Continuation of sample PB18-1011

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
							Pump On
1630	—	—					Sample Collection Time

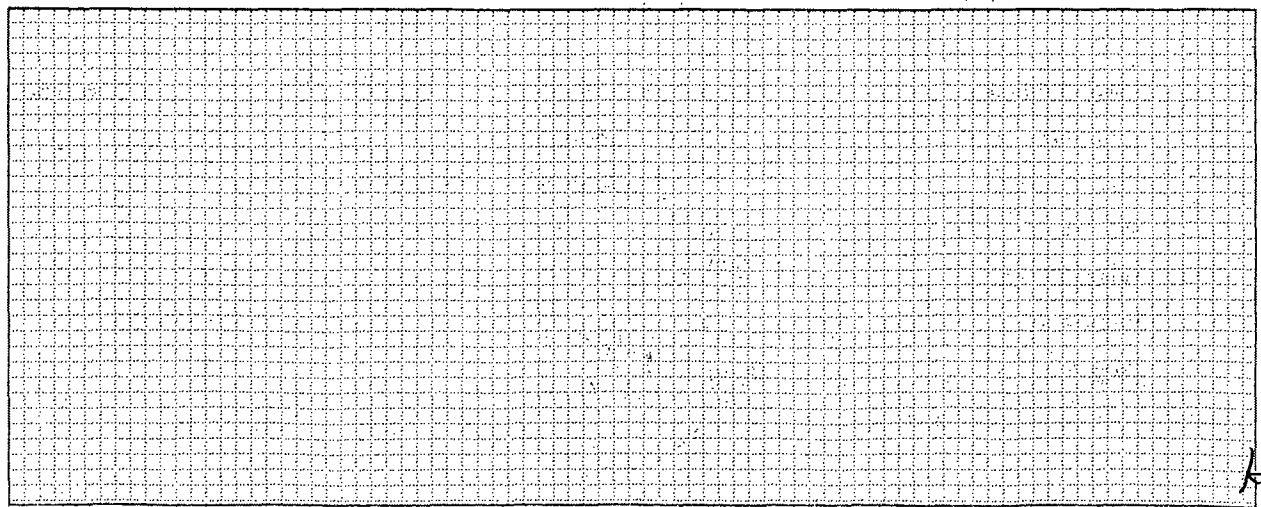
in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
Metals	1 L poly	1	HNO <sub>3</sub>

MS/MSD? Y or   All samples placed on ice/cooler checked for ice/water.

Grid for sketch, continuations, photo logs, etc.



Date: 10/20/11 Station ID: #R4027# Sample ID: TB01-101

Sample Team: M Stanley or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W  
Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet  
Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y or N  
File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement [ ]
- SESDPROC-101-R2, Field Specific Conductance Measurement [ ]
- SESDPROC-102-R2, Field Temperature Measurement [ ]
- SESDPROC-103-R2, Field Turbidity Measurement [ ]
- SESDPROC-105-R1, Groundwater Level Measurement [ ]
- SESDPROC-106-R2, Field DO Measurement [ ]
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP [ ]

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste [ ]
- SESDPROC-203-R2, Pump Operation [ ]
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination [ ]
- SESDPROC-301-R2, Groundwater Sampling [ ]

Other Procedures, if applicable:  
\_\_\_\_\_

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):  
\_\_\_\_\_

Description of Media Sample:

Trip Blank

Other pertinent information (weather conditions, etc.):  
\_\_\_\_\_

Filtered Sample: *Yes or No* If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: *Yes or No* Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: \_\_\_\_\_ in. Calculations:

Well Depth \_\_\_\_\_ ft

Water Level \_\_\_\_\_ ft NA

Water Column \_\_\_\_\_ ft

Purge Volume: \_\_\_\_\_ gallons RS

(Continued on next page)

Continuation of sample TB01-1011

Instrument Nos (i.e., #1, #2, #3, etc):

pH \_\_\_\_\_ Conductivity \_\_\_\_\_ Temperature \_\_\_\_\_ Turbidity \_\_\_\_\_ DO/ORP \_\_\_\_\_

NOTE: Key to instrument numbers and instrument calibration and field distribution information maintained

Purge Parameters (continue on grid below, if necessary)							
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbidity (NTUs)	DO (mg/l)	ORP (mV)	Notes
							Pump On
1235							Sample Collection Time

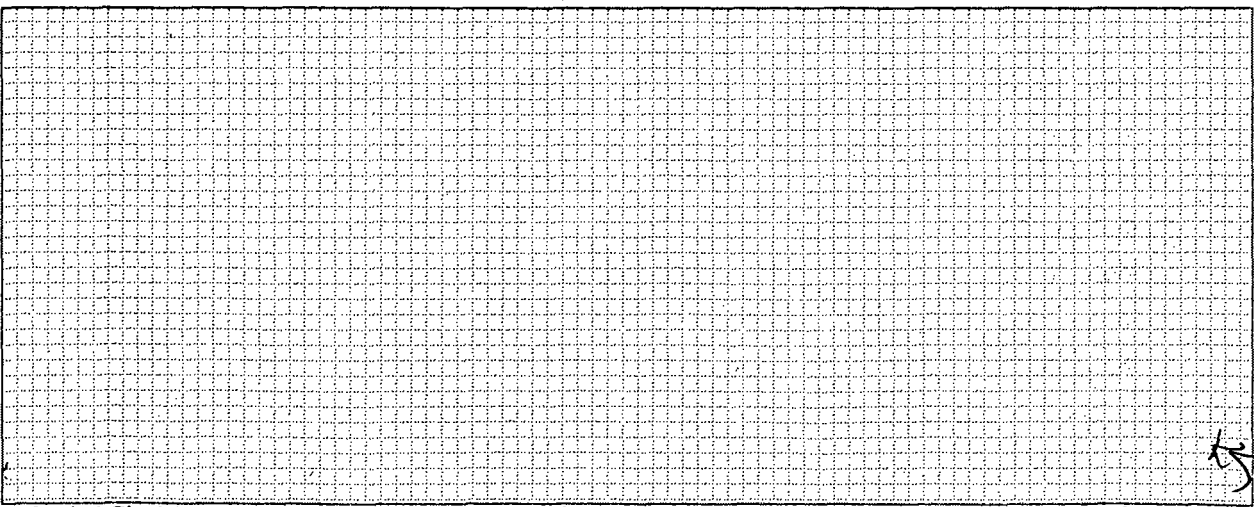
in separate instrument calibration logbook.

Laboratory Analyses and containers (continue on grid below, if necessary):

Analyses	Container Type	Number of Containers	Preservation
VOLs - Trip Blank	2 40ml	2	IKI

MS/MSD? Y or N       All samples placed on ice/cooler checked for ice/water

Grid for sketch, continuations, photo logs, etc.



Date: \_\_\_\_\_ Station ID: \_\_\_\_\_ Sample ID: \_\_\_\_\_

Sample Team: \_\_\_\_\_ or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_  
\_\_\_\_\_ or Init. \_\_\_\_\_

GPS Coordinates: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Garmin [ ] Serial Number \_\_\_\_\_ Accuracy \_\_\_\_\_ feet

Trimble [ ] SESD Instrument #: \_\_\_\_\_ Logged? Y. or N

File name and back-up location (laptop, thumb drive, etc.) \_\_\_\_\_

Description of sample location:  
\_\_\_\_\_  
\_\_\_\_\_

SESD Operating Procedures: *Check, as appropriate*

**Measurement Procedures:**

- SESDPROC-100-R2, Field pH Measurement [ ]
- SESDPROC-101-R2, Field Specific Conductance Measurement [ ]
- SESDPROC-102-R2, Field Temperature Measurement [ ]
- SESDPROC-103-R2, Field Turbidity Measurement [ ]
- SESDPROC-105-R1, Groundwater Level Measurement [ ]
- SESDPROC-106-R2, Field DO Measurement [ ]
- SESDPROC-111-R2, Insitu Water Quality Monitoring [ ]
- SESDPROC-113-R0, Field Measurement of ORP [ ]

**Environmental/Waste Sampling Procedures:**

- SESDPROC-202-R1, Management of Investigation Derived Waste [ ]
- SESDPROC-203-R2, Pump Operation [ ]
- SESDPROC-205-R1, Field Equipment Cleaning and Decontamination [ ]
- SESDPROC-301-R2, Groundwater Sampling [ ]

Other Procedures, if applicable:  
\_\_\_\_\_  
\_\_\_\_\_

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):  
\_\_\_\_\_  
\_\_\_\_\_

Description of Media/Sample:  
\_\_\_\_\_  
\_\_\_\_\_

Other pertinent information (weather conditions, etc.):  
\_\_\_\_\_  
\_\_\_\_\_

Filtered Sample: *Yes or No* If yes, Filter Type: \_\_\_\_\_, \_\_\_\_\_ um (size)

Field Split: *Yes or No* Split Sample ID, Date and Time: \_\_\_\_\_

Well Diameter: \_\_\_\_\_ in. Calculations:

Well Depth \_\_\_\_\_ ft

Water Level \_\_\_\_\_ ft

Water Column \_\_\_\_\_ ft

Purge Volume: \_\_\_\_\_ gallons

*(Continued on next page)*

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700  
D.A.R.T. Id: 12-0040  
Project: 12-0040, Capital City Plume - Reported by Sallie Hale

November 9, 2011

4SESD-ASB

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 12-0040, Capital City Plume  
Superfund Remedial

**FROM:** Sallie Hale  
ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
Analytical Support Branch

**TO:** Kevin Simmons

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

---

**Volatile Organics (VOA)**

Volatile organic compounds

EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

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**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**SAMPLES INCLUDED IN THIS REPORT**

**Project: 12-0040, Capital City Plume**

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
TB01-1011	E114404-02	Trip Blank - Water	10/26/11 16:35	10/27/11 8:43
MW10S-1011	E114404-03	Groundwater	10/26/11 09:05	10/27/11 8:43
MW12I-1011	E114404-04	Groundwater	10/24/11 15:40	10/27/11 8:43
MW12S-1011	E114404-05	Groundwater	10/24/11 16:45	10/27/11 8:43
MW1I-1011	E114404-07	Groundwater	10/25/11 16:35	10/27/11 8:43
MW1S-1011	E114404-08	Groundwater	10/25/11 17:05	10/27/11 8:43
MW2S-1011	E114404-09	Groundwater	10/26/11 14:30	10/27/11 8:43
MW4S-1011	E114404-10	Groundwater	10/26/11 13:05	10/27/11 8:43
MW4SD-1011	E114404-11	Groundwater	10/26/11 13:10	10/27/11 8:43
MW5I-1011	E114404-12	Groundwater	10/25/11 14:30	10/27/11 8:43
MW7I-1011	E114404-13	Groundwater	10/25/11 11:00	10/27/11 8:43
MW7S-1011	E114404-14	Groundwater	10/25/11 11:50	10/27/11 8:43
MW8I-1011	E114404-15	Groundwater	10/25/11 09:00	10/27/11 8:43
MW8S-1011	E114404-16	Groundwater	10/25/11 09:40	10/27/11 8:43
MW9S-1011	E114404-17	Groundwater	10/26/11 10:20	10/27/11 8:43



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Region 4 Science and Ecosystem Support Division

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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**DATA QUALIFIER DEFINITIONS**

- U The analyte was not detected at or above the reporting limit.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- Q-2 Result greater than MDL but less than MRL.

**ACRONYMS AND ABBREVIATIONS**

- CAS Chemical Abstracts Service  
Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ([www.epa.gov/srs](http://www.epa.gov/srs)), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700  
 D.A.R.T. Id: 12-0040  
 Project: 12-0040, Capital City Plume - Reported by Sallie Hale

### Volatile Organics

Project: 12-0040, Capital City Plume

Sample ID: TB01-1011

Lab ID: E114404-02

Station ID:

Matrix: Trip Blank - Water

Date Collected: 10/26/11 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 12:34	11/01/11 12:34	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 12:34	11/01/11 12:34	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 12:34	11/01/11 12:34	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 12:34	11/01/11 12:34	EPA 8260C





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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: **TB01-1011**

Lab ID: **E114404-02**

Station ID:

Matrix: Trip Blank - Water

Date Collected: 10/26/11 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 12:34	11/01/11 12:34	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 12:34	11/01/11 12:34	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 12:34	11/01/11 12:34	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 12:34	11/01/11 12:34	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 12:34	11/01/11 12:34	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 12:34	11/01/11 12:34	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C



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 D.A.R.T. Id: 12-0040  
 Project: 12-0040, Capital City Plume - Reported by Sallie Hale

### Volatile Organics

Project: 12-0040, Capital City Plume

Sample ID: TB01-1011  
 Station ID:

Lab ID: E114404-02  
 Matrix: Trip Blank - Water

Date Collected: 10/26/11 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 12:34	11/01/11 12:34	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 12:34	11/01/11 12:34	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW10S-1011

Lab ID: E114404-03

Station ID: MW10S

Matrix: Groundwater

Date Collected: 10/26/11 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 13:00	11/01/11 13:00	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 13:00	11/01/11 13:00	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 13:00	11/01/11 13:00	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 13:00	11/01/11 13:00	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW10S-1011

Lab ID: E114404-03

Station ID: MW10S

Matrix: Groundwater

Date Collected: 10/26/11 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 13:00	11/01/11 13:00	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 13:00	11/01/11 13:00	EPA 8260C
67-66-3	Chloroform	0.88		ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 13:00	11/01/11 13:00	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 13:00	11/01/11 13:00	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 13:00	11/01/11 13:00	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 13:00	11/01/11 13:00	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

**Sample ID: MW10S-1011**

**Lab ID: E114404-03**

**Station ID: MW10S**

**Matrix: Groundwater**

**Date Collected: 10/26/11 9:05**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 13:00	11/01/11 13:00	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 13:00	11/01/11 13:00	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700  
 D.A.R.T. Id: 12-0040  
 Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

Project: 12-0040, Capital City Plume

Sample ID: MW12I-1011

Lab ID: E114404-04

Station ID: MW12I

Matrix: Groundwater

Date Collected: 10/24/11 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 13:26	11/01/11 13:26	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 13:26	11/01/11 13:26	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 13:26	11/01/11 13:26	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 13:26	11/01/11 13:26	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW12I-1011

Lab ID: E114404-04

Station ID: MW12I

Matrix: Groundwater

Date Collected: 10/24/11 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 13:26	11/01/11 13:26	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 13:26	11/01/11 13:26	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 13:26	11/01/11 13:26	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 13:26	11/01/11 13:26	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 13:26	11/01/11 13:26	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 13:26	11/01/11 13:26	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700  
 D.A.R.T. Id: 12-0040  
 Project: 12-0040, Capital City Plume - Reported by Sallie Hale

### Volatile Organics

Project: 12-0040, Capital City Plume

Sample ID: MW12I-1011  
 Station ID: MW12I

Lab ID: E114404-04  
 Matrix: Groundwater

Date Collected: 10/24/11 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 13:26	11/01/11 13:26	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 13:26	11/01/11 13:26	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW12S-1011

Lab ID: E114404-05

Station ID: MW12S

Matrix: Groundwater

Date Collected: 10/24/11 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/04/11 14:35	11/04/11 14:35	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/04/11 14:35	11/04/11 14:35	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/04/11 14:35	11/04/11 14:35	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/04/11 14:35	11/04/11 14:35	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW12S-1011

Lab ID: E114404-05

Station ID: MW12S

Matrix: Groundwater

Date Collected: 10/24/11 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/04/11 14:35	11/04/11 14:35	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/04/11 14:35	11/04/11 14:35	EPA 8260C
67-66-3	Chloroform	0.68		ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.48	J, Q-2	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/04/11 14:35	11/04/11 14:35	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/04/11 14:35	11/04/11 14:35	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/04/11 14:35	11/04/11 14:35	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/04/11 14:35	11/04/11 14:35	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.20	J, Q-2	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW12S-1011

Lab ID: E114404-05

Station ID: MW12S

Matrix: Groundwater

Date Collected: 10/24/11 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	120		ug/L	2.0	11/01/11 18:11	11/01/11 18:11	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.64		ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.21	J, Q-2	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/04/11 14:35	11/04/11 14:35	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/04/11 14:35	11/04/11 14:35	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW11-1011

Lab ID: E114404-07

Station ID: MW11

Matrix: Groundwater

Date Collected: 10/25/11 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 13:52	11/01/11 13:52	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 13:52	11/01/11 13:52	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 13:52	11/01/11 13:52	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 13:52	11/01/11 13:52	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW11-1011

Lab ID: E114404-07

Station ID: MW11

Matrix: Groundwater

Date Collected: 10/25/11 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 13:52	11/01/11 13:52	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 13:52	11/01/11 13:52	EPA 8260C
67-66-3	Chloroform	0.22	J, Q-2	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 13:52	11/01/11 13:52	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 13:52	11/01/11 13:52	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 13:52	11/01/11 13:52	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 13:52	11/01/11 13:52	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW11-1011

Lab ID: E114404-07

Station ID: MW11

Matrix: Groundwater

Date Collected: 10/25/11 16:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.28	J, Q-2	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 13:52	11/01/11 13:52	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 13:52	11/01/11 13:52	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW1S-1011

Lab ID: E114404-08

Station ID: MW1S

Matrix: Groundwater

Date Collected: 10/25/11 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 14:18	11/01/11 14:18	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 14:18	11/01/11 14:18	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 14:18	11/01/11 14:18	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 14:18	11/01/11 14:18	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW1S-1011

Lab ID: E114404-08

Station ID: MW1S

Matrix: Groundwater

Date Collected: 10/25/11 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 14:18	11/01/11 14:18	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 14:18	11/01/11 14:18	EPA 8260C
67-66-3	Chloroform	14		ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 14:18	11/01/11 14:18	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 14:18	11/01/11 14:18	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 14:18	11/01/11 14:18	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 14:18	11/01/11 14:18	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW1S-1011

Lab ID: E114404-08

Station ID: MW1S

Matrix: Groundwater

Date Collected: 10/25/11 17:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	1.5		ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 14:18	11/01/11 14:18	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 14:18	11/01/11 14:18	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700  
 D.A.R.T. Id: 12-0040  
 Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

Project: 12-0040, Capital City Plume

Sample ID: MW2S-1011

Lab ID: E114404-09

Station ID: MW2S

Matrix: Groundwater

Date Collected: 10/26/11 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 14:44	11/01/11 14:44	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.17	J, Q-2	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 14:44	11/01/11 14:44	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 14:44	11/01/11 14:44	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 14:44	11/01/11 14:44	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW2S-1011

Lab ID: E114404-09

Station ID: MW2S

Matrix: Groundwater

Date Collected: 10/26/11 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 14:44	11/01/11 14:44	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 14:44	11/01/11 14:44	EPA 8260C
67-66-3	Chloroform	1.2		ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 14:44	11/01/11 14:44	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 14:44	11/01/11 14:44	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 14:44	11/01/11 14:44	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 14:44	11/01/11 14:44	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW2S-1011

Lab ID: E114404-09

Station ID: MW2S

Matrix: Groundwater

Date Collected: 10/26/11 14:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	44		ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.18	J, Q-2	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 14:44	11/01/11 14:44	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 14:44	11/01/11 14:44	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW4S-1011

Lab ID: E114404-10

Station ID: MW4S

Matrix: Groundwater

Date Collected: 10/26/11 13:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 15:10	11/01/11 15:10	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 15:10	11/01/11 15:10	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 15:10	11/01/11 15:10	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 15:10	11/01/11 15:10	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW4S-1011

Lab ID: E114404-10

Station ID: MW4S

Matrix: Groundwater

Date Collected: 10/26/11 13:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 15:10	11/01/11 15:10	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 15:10	11/01/11 15:10	EPA 8260C
67-66-3	Chloroform	0.66		ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	2.2		ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 15:10	11/01/11 15:10	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 15:10	11/01/11 15:10	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 15:10	11/01/11 15:10	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 15:10	11/01/11 15:10	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW4S-1011

Lab ID: E114404-10

Station ID: MW4S

Matrix: Groundwater

Date Collected: 10/26/11 13:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	38		ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	2.8		ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 15:10	11/01/11 15:10	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 15:10	11/01/11 15:10	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW4SD-1011

Lab ID: E114404-11

Station ID: MW4S

Matrix: Groundwater

Date Collected: 10/26/11 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 15:36	11/01/11 15:36	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 15:36	11/01/11 15:36	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 15:36	11/01/11 15:36	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 15:36	11/01/11 15:36	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW4SD-1011

Lab ID: E114404-11

Station ID: MW4S

Matrix: Groundwater

Date Collected: 10/26/11 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 15:36	11/01/11 15:36	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 15:36	11/01/11 15:36	EPA 8260C
67-66-3	Chloroform	0.67		ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	2.2		ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 15:36	11/01/11 15:36	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 15:36	11/01/11 15:36	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 15:36	11/01/11 15:36	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 15:36	11/01/11 15:36	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW4SD-1011

Lab ID: E114404-11

Station ID: MW4S

Matrix: Groundwater

Date Collected: 10/26/11 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	38		ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	2.8		ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 15:36	11/01/11 15:36	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 15:36	11/01/11 15:36	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW5I-1011

Lab ID: E114404-12

Station ID: MW5I

Matrix: Groundwater

Date Collected: 10/25/11 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 16:02	11/01/11 16:02	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 16:02	11/01/11 16:02	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 16:02	11/01/11 16:02	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 16:02	11/01/11 16:02	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW5I-1011

Lab ID: E114404-12

Station ID: MW5I

Matrix: Groundwater

Date Collected: 10/25/11 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 16:02	11/01/11 16:02	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 16:02	11/01/11 16:02	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 16:02	11/01/11 16:02	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 16:02	11/01/11 16:02	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 16:02	11/01/11 16:02	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 16:02	11/01/11 16:02	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 16:02	11/01/11 16:02	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW5I-1011

Lab ID: E114404-12

Station ID: MW5I

Matrix: Groundwater

Date Collected: 10/25/11 14:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>	
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 16.02	11/01/11 16.02	EPA 8260C	
127-18-4	Tetrachloroethene (Tetrachloroethylene)	20		ug/L	0.50	11/01/11 16.02	11/01/11 16.02	EPA 8260C	
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 16.02	11/01/11 16.02	EPA 8260C	
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 16.02	11/01/11 16.02	EPA 8260C	
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 16.02	11/01/11 16.02	EPA 8260C	
79-01-6	Trichloroethene (Trichloroethylene)	0.57		ug/L	0.50	11/01/11 16.02	11/01/11 16.02	EPA 8260C	
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 16.02	11/01/11 16.02	EPA 8260C	
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 16.02	11/01/11 16.02	EPA 8260C	
<b>Tentatively Identified Compounds:</b>									
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 16.02	11/01/11 16.02	EPA 8260C	





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW7I-1011

Lab ID: E114404-13

Station ID: MW7I

Matrix: Groundwater

Date Collected: 10/25/11 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 16.27	11/01/11 16.27	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 16.27	11/01/11 16.27	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 16.27	11/01/11 16.27	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 16.27	11/01/11 16.27	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 16.27	11/01/11 16.27	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW7I-1011

Lab ID: E114404-13

Station ID: MW7I

Matrix: Groundwater

Date Collected: 10/25/11 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 16:27	11/01/11 16:27	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 16:27	11/01/11 16:27	EPA 8260C
67-66-3	Chloroform	0.22	J, Q-2	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 16:27	11/01/11 16:27	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 16:27	11/01/11 16:27	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 16:27	11/01/11 16:27	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 16:27	11/01/11 16:27	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW7I-1011

Lab ID: E114404-13

Station ID: MW7I

Matrix: Groundwater

Date Collected: 10/25/11 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.1		ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 16:27	11/01/11 16:27	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 16:27	11/01/11 16:27	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW7S-1011

Lab ID: E114404-14

Station ID: MW7S

Matrix: Groundwater

Date Collected: 10/25/11 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 16:53	11/01/11 16:53	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 16:53	11/01/11 16:53	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 16:53	11/01/11 16:53	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 16:53	11/01/11 16:53	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

**Sample ID: MW7S-1011**

**Lab ID: E114404-14**

**Station ID: MW7S**

**Matrix: Groundwater**

**Date Collected: 10/25/11 11:50**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 16:53	11/01/11 16:53	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 16:53	11/01/11 16:53	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 16:53	11/01/11 16:53	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 16:53	11/01/11 16:53	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 16:53	11/01/11 16:53	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 16:53	11/01/11 16:53	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

**Sample ID: MW7S-1011**

**Lab ID: E114404-14**

**Station ID: MW7S**

**Matrix: Groundwater**

**Date Collected: 10/25/11 11:50**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 16:53	11/01/11 16:53	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 16:53	11/01/11 16:53	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW8I-1011

Lab ID: E114404-15

Station ID: MW8I

Matrix: Groundwater

Date Collected: 10/25/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 17:19	11/01/11 17:19	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 17:19	11/01/11 17:19	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 17:19	11/01/11 17:19	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 17:19	11/01/11 17:19	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW8I-1011

Lab ID: E114404-15

Station ID: MW8I

Matrix: Groundwater

Date Collected: 10/25/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 17:19	11/01/11 17:19	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 17:19	11/01/11 17:19	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 17:19	11/01/11 17:19	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 17:19	11/01/11 17:19	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 17:19	11/01/11 17:19	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 17:19	11/01/11 17:19	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW8I-1011

Lab ID: E114404-15

Station ID: MW8I

Matrix: Groundwater

Date Collected: 10/25/11 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 17:19	11/01/11 17:19	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 17:19	11/01/11 17:19	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW8S-1011

Lab ID: E114404-16

Station ID: MW8S

Matrix: Groundwater

Date Collected: 10/25/11 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/04/11 14:09	11/04/11 14:09	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.32	J, Q-2	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/04/11 14:09	11/04/11 14:09	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/04/11 14:09	11/04/11 14:09	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/04/11 14:09	11/04/11 14:09	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW8S-1011

Lab ID: E114404-16

Station ID: MW8S

Matrix: Groundwater

Date Collected: 10/25/11 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/04/11 14:09	11/04/11 14:09	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/04/11 14:09	11/04/11 14:09	EPA 8260C
67-66-3	Chloroform	0.41	J, Q-2	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/04/11 14:09	11/04/11 14:09	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/04/11 14:09	11/04/11 14:09	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/04/11 14:09	11/04/11 14:09	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/04/11 14:09	11/04/11 14:09	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW8S-1011

Lab ID: E114404-16

Station ID: MW8S

Matrix: Groundwater

Date Collected: 10/25/11 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	55		ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.72		ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.23	J, Q-2	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/04/11 14:09	11/04/11 14:09	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/04/11 14:09	11/04/11 14:09	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW9S-1011

Lab ID: E114404-17

Station ID: MW9S

Matrix: Groundwater

Date Collected: 10/26/11 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	11/01/11 17:45	11/01/11 17:45	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	11/01/11 17:45	11/01/11 17:45	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	11/01/11 17:45	11/01/11 17:45	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	11/01/11 17:45	11/01/11 17:45	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW9S-1011

Lab ID: E114404-17

Station ID: MW9S

Matrix: Groundwater

Date Collected: 10/26/11 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U	ug/L	2.0	11/01/11 17:45	11/01/11 17:45	EPA 8260C
75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	11/01/11 17:45	11/01/11 17:45	EPA 8260C
67-66-3	Chloroform	1.2		ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	11/01/11 17:45	11/01/11 17:45	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	11/01/11 17:45	11/01/11 17:45	EPA 8260C
78-93-3	Methyl Ethyl Ketone	1.0	U	ug/L	1.0	11/01/11 17:45	11/01/11 17:45	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	11/01/11 17:45	11/01/11 17:45	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	11/01/11 17:45	11/01/11 17:45	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics**

**Project: 12-0040, Capital City Plume**

Sample ID: MW9S-1011

Lab ID: E114404-17

Station ID: MW9S

Matrix: Groundwater

Date Collected: 10/26/11 10:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	11/01/11 17.45	11/01/11 17.45	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	11/01/11 17.45	11/01/11 17.45	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	11/01/11 17.45	11/01/11 17.45	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/01/11 17.45	11/01/11 17.45	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/01/11 17.45	11/01/11 17.45	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	2.1		ug/L	0.50	11/01/11 17.45	11/01/11 17.45	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	11/01/11 17.45	11/01/11 17.45	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/01/11 17.45	11/01/11 17.45	EPA 8260C
<b>Tentatively Identified Compounds:</b>								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	11/01/11 17.45	11/01/11 17.45	EPA 8260C





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1111006 - V 5030B VOA Wtr Prep**

**Blank (1111006-BLK1)**

Prepared & Analyzed: 11/01/11

**EPA 8260C**

Surrogate: <i>p</i> -Bromofluorobenzene	25.0		ug/L	25.000		100	88-108			
Surrogate: Toluene- <i>d</i> 8	24.8		"	25.000		99.4	86.6-107			
Surrogate: Dibromofluoromethane	25.2		"	25.000		101	90-110			
Dichlorodifluoromethane (Freon 12)	U	0.50	"							U
Chloromethane	0.16000	0.50	"							J
Bromomethane	0.71000	2.0	"							J
Vinyl chloride	U	0.50	"							U
Chloroethane	U	2.0	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
Acetone	U	4.0	"							U
Carbon disulfide	U	0.50	"							U
Methyl Acetate	U	1.0	"							U
1,1-Dichloroethane	U	0.50	"							U
cis-1,2-Dichloroethene	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
Methyl Ethyl Ketone	U	1.0	"							U
Bromochloromethane	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
Chloroform	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
Cyclohexane	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
Carbon Tetrachloride	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Methyl Isobutyl Ketone	U	1.0	"							U
1,2-Dichloropropane	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
Dibromomethane	U	0.50	"							U
trans-1,3-Dichloropropene	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Benzene	U	0.50	"							U
Dibromochloromethane	U	0.50	"							U
1,1,2-Trichloroethane	U	0.50	"							U





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1111006 - V 5030B VOA Wtr Prep</b>										
<b>Blank (1111006-BLK1)</b>										
Prepared & Analyzed: 11/01/11										
cis-1,3-Dichloropropene	U	0.50	ug/L							U
Bromoform	U	1.0	"							U
Bromobenzene	U	0.50	"							U
1,1,2,2-Tetrachloroethane	U	0.50	"							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
1,3-Dichloropropane	U	0.50	"							U
Methyl Butyl Ketone	U	1.0	"							U
Toluene	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
(m- and/or p-)Xylene	U	1.0	"							U
o-Xylene	U	0.50	"							U
Styrene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
1,2-Dibromoethane (EDB)	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	1.0	"							U
1,2,4-Trichlorobenzene	0.17000	0.50	"							J
Hexachlorobutadiene	U	0.50	"							U
1,2,3-Trichlorobenzene	0.21000	0.50	"							J
Naphthalene	0.41000	0.50	"							B-3, J
Tentatively Identified Compounds	U	10	"							



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1111006 - V 5030B VOA Wtr Prep**

LCS (1111006-BS1)

Prepared & Analyzed: 11/01/11

**EPA 8260C**

Surrogate: Toluene-d8	25.0		ug/L	25.000		100	86.6-107			
Surrogate: p-Bromofluorobenzene	24.5		"	25.000		98.2	88-108			
Surrogate: Dibromofluoromethane	25.1		"	25.000		100	90-110			
Dichlorodifluoromethane (Freon 12)	19.710		"	20.000		98.6	63.5-132			
Chloromethane	17.780		"	20.000		88.9	68.9-118			
Bromomethane	16.310		"	20.000		81.6	49.9-140			
Vinyl chloride	19.260		"	20.000		96.3	78.8-115			
Chloroethane	20.560		"	20.000		103	76.7-118			
Trichlorofluoromethane (Freon 11)	20.480		"	20.000		102	78-129			
1,1-Dichloroethene (1,1-Dichloroethylene)	20.640		"	20.000		103	85.4-116			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	20.210		"	20.000		101	80-124			
Methylene Chloride	19.770		"	20.000		98.8	81.2-118			
Methyl T-Butyl Ether (MTBE)	20.990		"	20.000		105	80.1-123			
Acetone	41.690		"	40.000		104	49.7-153			
Carbon disulfide	20.440		"	20.000		102	81.7-114			
Methyl Acetate	41.860		"	40.000		105	75.8-121			
1,1-Dichloroethane	20.330		"	20.000		102	87.8-113			
cis-1,2-Dichloroethene	20.870		"	20.000		104	87.6-115			
2,2-Dichloropropane	21.620		"	20.000		108	53.4-154			
Methyl Ethyl Ketone	41.370		"	40.000		103	68.1-135			
Bromochloromethane	20.210		"	20.000		101	83.6-117			
trans-1,2-Dichloroethene	20.420		"	20.000		102	86.6-114			
Chloroform	20.220		"	20.000		101	87.9-115			
1,2-Dichloroethane	20.880		"	20.000		104	83.9-122			
1,1,1-Trichloroethane	20.630		"	20.000		103	79.3-126			
Cyclohexane	20.710		"	20.000		104	83.5-122			
1,1-Dichloropropene	20.650		"	20.000		103	89.4-115			
Carbon Tetrachloride	21.270		"	20.000		106	68.8-140			
Bromodichloromethane	20.550		"	20.000		103	80-125			
Methyl Isobutyl Ketone	43.190		"	40.000		108	77-127			
1,2-Dichloropropane	20.250		"	20.000		101	88-113			
Methylcyclohexane	20.220		"	20.000		101	82.6-124			
Dibromomethane	20.340		"	20.000		102	87.3-117			
trans-1,3-Dichloropropene	21.850		"	20.000		109	77.4-127			
Trichloroethene (Trichloroethylene)	20.700		"	20.000		104	87.8-114			
Benzene	20.440		"	20.000		102	89.6-113			
Dibromochloromethane	21.210		"	20.000		106	71.7-133			
1,1,2-Trichloroethane	20.780		"	20.000		104	87.1-111			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1111006 - V 5030B VOA Wtr Prep</b>										
<b>LCS (1111006-BS1)</b>										
Prepared & Analyzed: 11/01/11										
cis-1,3-Dichloropropene	21.020		ug/L	20.000		105	81-121			
Bromoform	41.720		"	40.000		104	63.1-142			
Bromobenzene	19.950		"	20.000		99.8	84.6-112			
1,1,2,2-Tetrachloroethane	20.990		"	20.000		105	80.2-118			
Tetrachloroethene (Tetrachloroethylene)	20.370		"	20.000		102	85.1-113			
1,3-Dichloropropane	20.600		"	20.000		103	87.4-113			
Methyl Butyl Ketone	43.990		"	40.000		110	69.9-136			
Toluene	20.960		"	20.000		105	87.7-111			
Chlorobenzene	20.630		"	20.000		103	88.4-109			
1,1,1,2-Tetrachloroethane	22.340		"	20.000		112	76.5-128			
Ethyl Benzene	21.140		"	20.000		106	90-114			
(m- and/or p-)Xylene	43.410		"	40.000		109	91.3-117			
o-Xylene	21.390		"	20.000		107	88.9-116			
Styrene	21.960		"	20.000		110	89.9-119			
1,2,3-Trichloropropane	20.850		"	20.000		104	83.4-114			
o-Chlorotoluene	20.660		"	20.000		103	85.8-114			
p-Chlorotoluene	20.660		"	20.000		103	86.5-114			
1,3-Dichlorobenzene	20.320		"	20.000		102	86.4-112			
1,4-Dichlorobenzene	20.220		"	20.000		101	86.5-110			
1,2-Dichlorobenzene	20.660		"	20.000		103	86.4-111			
1,2-Dibromoethane (EDB)	20.990		"	20.000		105	87.3-115			
Isopropylbenzene	21.050		"	20.000		105	84.5-120			
n-Propylbenzene	21.210		"	20.000		106	87-117			
1,3,5-Trimethylbenzene	21.320		"	20.000		107	86.8-119			
tert-Butylbenzene	20.890		"	20.000		104	85.2-119			
1,2,4-Trimethylbenzene	21.350		"	20.000		107	86.5-121			
sec-Butylbenzene	21.250		"	20.000		106	86.2-120			
p-Isopropyltoluene	21.700		"	20.000		108	86.3-123			
n-Butylbenzene	21.340		"	20.000		107	85.7-121			
1,2-Dibromo-3-Chloropropane (DBCP)	44.710		"	40.000		112	72.3-136			
1,2,4-Trichlorobenzene	20.760		"	20.000		104	83.9-117			
Hexachlorobutadiene	19.510		"	20.000		97.6	80.2-116			
1,2,3-Trichlorobenzene	20.570		"	20.000		103	85-117			
Naphthalene	22.220		"	20.000		111	80.8-127			





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1111006 - V 5030B VOA Wtr Prep**

Matrix Spike (1111006-MS1)

Source: E114404-12

Prepared & Analyzed: 11/01/11

**EPA 8260C**

Surrogate: Dibromofluoromethane	25.1		ug/L	25.000		100	90-110			
Surrogate: Toluene-d8	25.0		"	25.000		100	86.6-107			
Surrogate: p-Bromofluorobenzene	25.0		"	25.000		100	88-108			
Dichlorodifluoromethane (Freon 12)	12.920		"	10.233	U	126	71.1-152			
Chloromethane	10.680		"	10.233	U	104	67.3-138			
Bromomethane	10.170		"	10.233	U	99.4	33.6-168			
Vinyl chloride	11.550		"	10.233	U	113	84.5-135			
Chloroethane	11.840		"	10.233	U	116	70.6-150			
Trichlorofluoromethane (Freon 11)	13.150		"	10.233	U	129	87.3-147			
1,1-Dichloroethene (1,1-Dichloroethylene)	11.890		"	10.233	U	116	87.5-133			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	12.430		"	10.233	U	121	87.8-141			
Methylene Chloride	11.110		"	10.233	U	109	80.7-129			
Methyl T-Butyl Ether (MTBE)	10.920		"	10.233	U	107	76.5-127			
Acetone	19.220		"	20.465	U	93.9	48.2-133			
Carbon disulfide	10.490		"	10.233	U	103	40.9-152			
Methyl Acetate	21.330		"	20.465	U	104	66.1-122			
1,1-Dichloroethane	11.120		"	10.233	U	109	87.6-126			
cis-1,2-Dichloroethene	11.280		"	10.233	U	110	85.3-127			
2,2-Dichloropropane	11.140		"	10.233	U	109	45.4-163			
Methyl Ethyl Ketone	20.020		"	20.465	U	97.8	60.8-127			
Bromochloromethane	10.810		"	10.233	U	106	82.7-126			
trans-1,2-Dichloroethene	11.380		"	10.233	U	111	86.8-128			
Chloroform	11.440		"	10.233	U	112	87.6-128			
1,2-Dichloroethane	11.370		"	10.233	U	111	83.5-129			
1,1,1-Trichloroethane	11.960		"	10.233	U	117	85.6-137			
Cyclohexane	12.630		"	10.233	U	123	85.1-140			
1,1-Dichloropropene	12.120		"	10.233	U	118	90.2-132			
Carbon Tetrachloride	12.150		"	10.233	U	119	75.4-144			
Bromodichloromethane	11.050		"	10.233	U	108	81.1-125			
Methyl Isobutyl Ketone	21.700		"	20.465	U	106	73.9-125			
1,2-Dichloropropane	11.300		"	10.233	U	110	85.3-125			
Methylcyclohexane	12.250		"	10.233	U	120	81.4-144			
Dibromomethane	10.850		"	10.233	U	106	83.2-124			
trans-1,3-Dichloropropene	10.900		"	10.233	U	107	66.9-126			
Trichloroethene (Trichloroethylene)	11.760		"	10.233	0.57000	109	87.2-128			
Benzene	11.440		"	10.233	U	112	88.8-127			
Dibromochloromethane	10.400		"	10.233	U	102	67.1-128			
1,1,2-Trichloroethane	10.700		"	10.233	U	105	83.6-119			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1111006 - V 5030B VOA Wtr Prep**

Matrix Spike (1111006-MS1)	Source: E114404-12	Prepared & Analyzed: 11/01/11
cis-1,3-Dichloropropene	10.710	ug/L 10.233 U 105 73-125
Bromoform	21.570	" 20.465 U 105 50.7-133
Bromobenzene	10.730	" 10.233 U 105 80.5-121
1,1,2,2-Tetrachloroethane	10.850	" 10.233 U 106 78-121
Tetrachloroethene (Tetrachloroethylene)	30.640	" 10.233 20.260 101 66.4-149
1,3-Dichloropropane	10.960	" 10.233 U 107 83.6-121
Methyl Butyl Ketone	21.810	" 20.465 U 107 66.9-124
Toluene	11.560	" 10.233 U 113 85.6-126
Chlorobenzene	11.230	" 10.233 U 110 85.5-123
1,1,1,2-Tetrachloroethane	11.080	" 10.233 U 108 77.4-127
Ethyl Benzene	11.730	" 10.233 U 115 85-130
(m- and/or p-)Xylene	24.300	" 20.465 U 119 81.5-138
o-Xylene	11.520	" 10.233 U 113 78.6-130
Styrene	11.250	" 10.233 U 110 34.5-158
1,2,3-Trichloropropane	10.740	" 10.233 U 105 78.9-120
o-Chlorotoluene	11.170	" 10.233 U 109 80.6-128
p-Chlorotoluene	11.260	" 10.233 U 110 79.4-129
1,3-Dichlorobenzene	10.840	" 10.233 U 106 79-125
1,4-Dichlorobenzene	10.880	" 10.233 U 106 78.3-124
1,2-Dichlorobenzene	11.020	" 10.233 U 108 78.4-125
1,2-Dibromoethane (EDB)	11.030	" 10.233 U 108 83.4-119
Isopropylbenzene	11.780	" 10.233 U 115 82.2-134
n-Propylbenzene	11.720	" 10.233 U 115 79.7-136
1,3,5-Trimethylbenzene	11.580	" 10.233 U 113 61.9-143
tert-Butylbenzene	11.600	" 10.233 U 113 79.5-134
1,2,4-Trimethylbenzene	11.420	" 10.233 U 112 57.5-147
sec-Butylbenzene	11.700	" 10.233 U 114 79-138
p-Isopropyltoluene	11.750	" 10.233 U 115 76.7-138
n-Butylbenzene	11.360	" 10.233 U 111 74.7-136
1,2-Dibromo-3-Chloropropane (DBCP)	21.350	" 20.465 U 104 68.3-125
1,2,4-Trichlorobenzene	9.9500	" 10.233 U 97.2 67.6-125
Hexachlorobutadiene	10.210	" 10.233 U 99.8 67.2-136
1,2,3-Trichlorobenzene	9.8400	" 10.233 U 96.2 69.5-126
Naphthalene	10.640	" 10.233 U 104 61-134



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Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1111006 - V 5030B VOA Wtr Prep**

Matrix Spike Dup (1111006-MSD1)

Source: E114404-12

Prepared & Analyzed: 11/01/11

**EPA 8260C**

Surrogate: Dibromofluoromethane	25.4		ug/L	25.000		101	90-110			
Surrogate: p-Bromofluorobenzene	24.7		"	25.000		98.7	88-108			
Surrogate: Toluene-d8	25.0		"	25.000		99.8	86.6-107			
Dichlorodifluoromethane (Freon 12)	12.750		"	10.233	U	125	71.1-152	1.32	21.6	
Chloromethane	11.080		"	10.233	U	108	67.3-138	3.68	29	
Bromomethane	10.510		"	10.233	U	103	33.6-168	3.29	34.4	
Vinyl chloride	12.310		"	10.233	U	120	84.5-135	6.37	14.1	
Chloroethane	12.100		"	10.233	U	118	70.6-150	2.17	34.2	
Trichlorofluoromethane (Freon 11)	12.790		"	10.233	U	125	87.3-147	2.78	18.7	
1,1-Dichloroethene (1,1-Dichloroethylene)	12.090		"	10.233	U	118	87.5-133	1.67	12.8	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	12.370		"	10.233	U	121	87.8-141	0.484	13.6	
Methylene Chloride	10.850		"	10.233	U	106	80.7-129	2.37	14.3	
Methyl T-Butyl Ether (MTBE)	11.000		"	10.233	U	107	76.5-127	0.730	11.8	
Acetone	19.670		"	20.465	U	96.1	48.2-133	2.31	18.2	
Carbon disulfide	10.290		"	10.233	U	101	40.9-152	1.92	39.5	
Methyl Acetate	21.310		"	20.465	U	104	66.1-122	0.0938	11.2	
1,1-Dichloroethane	11.240		"	10.233	U	110	87.6-126	1.07	11.3	
cis-1,2-Dichloroethene	11.460		"	10.233	U	112	85.3-127	1.58	10.8	
2,2-Dichloropropane	11.680		"	10.233	U	114	45.4-163	4.73	18	
Methyl Ethyl Ketone	19.530		"	20.465	U	95.4	60.8-127	2.48	15	
Bromochloromethane	10.980		"	10.233	U	107	82.7-126	1.56	15.3	
trans-1,2-Dichloroethene	11.570		"	10.233	U	113	86.8-128	1.66	11	
Chloroform	11.210		"	10.233	U	110	87.6-128	2.03	11.4	
1,2-Dichloroethane	11.410		"	10.233	U	112	83.5-129	0.351	12.1	
1,1,1-Trichloroethane	12.160		"	10.233	U	119	85.6-137	1.66	10.9	
Cyclohexane	12.390		"	10.233	U	121	85.1-140	1.92	11.5	
1,1-Dichloropropene	11.990		"	10.233	U	117	90.2-132	1.08	11.1	
Carbon Tetrachloride	12.570		"	10.233	U	123	75.4-144	3.40	15.8	
Bromodichloromethane	11.210		"	10.233	U	110	81.1-125	1.44	12.5	
Methyl Isobutyl Ketone	21.790		"	20.465	U	106	73.9-125	0.414	12	
1,2-Dichloropropane	11.090		"	10.233	U	108	85.3-125	1.88	13.2	
Methylcyclohexane	12.380		"	10.233	U	121	81.4-144	1.06	12.4	
Dibromomethane	10.860		"	10.233	U	106	83.2-124	0.0921	14.2	
trans-1,3-Dichloropropene	11.420		"	10.233	U	112	66.9-126	4.66	18	
Trichloroethene (Trichloroethylene)	12.090		"	10.233	0.57000	113	87.2-128	2.91	15	
Benzene	11.430		"	10.233	U	112	88.8-127	0.0874	10	
Dibromochloromethane	10.660		"	10.233	U	104	67.1-128	2.47	17.7	
1,1,2-Trichloroethane	10.920		"	10.233	U	107	83.6-119	2.04	11.2	





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1111006 - V 5030B VOA Wtr Prep</b>										
<b>Matrix Spike Dup (1111006-MSD1)</b>										
<b>Source: E114404-12</b>										
<b>Prepared &amp; Analyzed: 11/01/11</b>										
cis-1,3-Dichloropropene	11.120		ug/L	10.233	U	109	73-125	3.76	17.1	
Bromoform	22.020		"	20.465	U	108	50.7-133	2.06	21.1	
Bromobenzene	10.960		"	10.233	U	107	80.5-121	2.12	12.9	
1,1,2,2-Tetrachloroethane	10.770		"	10.233	U	105	78-121	0.740	13.5	
Tetrachloroethene (Tetrachloroethylene)	30.650		"	10.233	20.260	102	66.4-149	0.0963	13.4	
1,3-Dichloropropane	11.000		"	10.233	U	107	83.6-121	0.364	10.5	
Methyl Butyl Ketone	21.860		"	20.465	U	107	66.9-124	0.229	13.2	
Toluene	11.730		"	10.233	U	115	85.6-126	1.46	10	
Chlorobenzene	11.410		"	10.233	U	112	85.5-123	1.59	10.6	
1,1,1,2-Tetrachloroethane	11.680		"	10.233	U	114	77.4-127	5.27	12.4	
Ethyl Benzene	11.870		"	10.233	U	116	85-130	1.19	10	
(m- and/or p-)Xylene	24.600		"	20.465	U	120	81.5-138	1.23	10.3	
o-Xylene	11.530		"	10.233	U	113	78.6-130	0.0867	10	
Styrene	11.440		"	10.233	U	112	34.5-158	1.67	22.6	
1,2,3-Trichloropropane	10.630		"	10.233	U	104	78.9-120	1.03	12.8	
o-Chlorotoluene	11.190		"	10.233	U	109	80.6-128	0.179	11.3	
p-Chlorotoluene	11.450		"	10.233	U	112	79.4-129	1.67	11.9	
1,3-Dichlorobenzene	10.970		"	10.233	U	107	79-125	1.19	11.1	
1,4-Dichlorobenzene	11.040		"	10.233	U	108	78.3-124	1.46	10.3	
1,2-Dichlorobenzene	11.120		"	10.233	U	109	78.4-125	0.903	11	
1,2-Dibromoethane (EDB)	10.940		"	10.233	U	107	83.4-119	0.819	10.7	
Isopropylbenzene	11.870		"	10.233	U	116	82.2-134	0.761	12.7	
n-Propylbenzene	11.810		"	10.233	U	115	79.7-136	0.765	11.7	
1,3,5-Trimethylbenzene	11.780		"	10.233	U	115	61.9-143	1.71	13.7	
tert-Butylbenzene	11.510		"	10.233	U	112	79.5-134	0.779	11.8	
1,2,4-Trimethylbenzene	11.590		"	10.233	U	113	57.5-147	1.48	16.9	
sec-Butylbenzene	11.690		"	10.233	U	114	79-138	0.0856	10.7	
p-Isopropyltoluene	11.860		"	10.233	U	116	76.7-138	0.932	11.1	
n-Butylbenzene	11.500		"	10.233	U	112	74.7-136	1.22	12.1	
1,2-Dibromo-3-Chloropropane (DBCP)	22.980		"	20.465	U	112	68.3-125	7.35	14.8	
1,2,4-Trichlorobenzene	10.330		"	10.233	U	101	67.6-125	3.75	14.3	
Hexachlorobutadiene	10.260		"	10.233	U	100	67.2-136	0.489	15.7	
1,2,3-Trichlorobenzene	10.350		"	10.233	U	101	69.5-126	5.05	14.2	
Naphthalene	10.850		"	10.233	U	106	61-134	1.95	18.4	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1111006 - V 5030B VOA Wtr Prep**

MRL Verification (1111006-PS1)

Prepared & Analyzed: 11/01/11

**EPA 8260C**

Surrogate: <i>p</i> -Bromofluorobenzene	24.1		ug/L	25.000		96.3	88-108			
Surrogate: Toluene- <i>d</i> 8	24.8		"	25.000		99.4	86.6-107			
Surrogate: Dibromofluoromethane	25.6		"	25.000		103	90-110			
Dichlorodifluoromethane (Freon 12)	2.1300		"	2.0000		106	43.5-152			
Chloromethane	1.8000		"	2.0000		90.0	48.9-138			
Bromomethane	1.6400		"	2.0000		82.0	29.9-160			MRL-2
Vinyl chloride	1.9800		"	2.0000		99.0	58.8-135			
Chloroethane	2.0900		"	2.0000		104	56.7-138			MRL-2
Trichlorofluoromethane (Freon 11)	2.1800		"	2.0000		109	58-149			
1,1-Dichloroethene (1,1-Dichloroethylene)	2.0300		"	2.0000		102	65.4-136			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	2.0400		"	2.0000		102	60-144			
Methylene Chloride	1.7900		"	2.0000		89.5	61.2-138			
Methyl T-Butyl Ether (MTBE)	2.0300		"	2.0000		102	60.1-143			
Acetone	4.8700		"	4.0000		122	29.7-173			MRL-2
Carbon disulfide	1.9600		"	2.0000		98.0	61.7-134			
Methyl Acetate	3.6600		"	4.0000		91.5	55.8-141			
1,1-Dichloroethane	1.9800		"	2.0000		99.0	67.8-133			
cis-1,2-Dichloroethene	1.9200		"	2.0000		96.0	67.6-135			
2,2-Dichloropropane	2.2900		"	2.0000		114	33.4-174			
Methyl Ethyl Ketone	3.8100		"	4.0000		95.2	48.1-155			
Bromochloromethane	1.8000		"	2.0000		90.0	63.6-137			
trans-1,2-Dichloroethene	1.9000		"	2.0000		95.0	66.6-134			
Chloroform	2.0600		"	2.0000		103	67.9-135			
1,2-Dichloroethane	2.1300		"	2.0000		106	63.9-142			
1,1,1-Trichloroethane	2.2000		"	2.0000		110	59.3-146			
Cyclohexane	1.9100		"	2.0000		95.5	63.5-142			
1,1-Dichloropropene	2.0200		"	2.0000		101	69.4-135			
Carbon Tetrachloride	2.1400		"	2.0000		107	48.8-160			
Bromodichloromethane	1.8000		"	2.0000		90.0	60-145			
Methyl Isobutyl Ketone	4.2100		"	4.0000		105	57-147			
1,2-Dichloropropane	2.1700		"	2.0000		108	68-133			
Methylcyclohexane	2.1600		"	2.0000		108	62.6-144			
Dibromomethane	1.8900		"	2.0000		94.5	67.3-137			
trans-1,3-Dichloropropene	1.8700		"	2.0000		93.5	57.4-147			
Trichloroethene (Trichloroethylene)	2.0400		"	2.0000		102	67.8-134			
Benzene	2.0300		"	2.0000		102	69.6-133			
Dibromochloromethane	1.6500		"	2.0000		82.5	51.7-153			
1,1,2-Trichloroethane	2.1700		"	2.0000		108	67.1-131			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1111006 - V 5030B VOA Wtr Prep</b>										
<b>MRL Verification (1111006-PS1)</b>				Prepared & Analyzed: 11/01/11						
cis-1,3-Dichloropropene	1.8900		ug/L	2.0000		94.5	61-141			
Bromoform	3.7100		"	4.0000		92.8	43.1-162			
Bromobenzene	1.9200		"	2.0000		96.0	64.6-132			
1,1,2,2-Tetrachloroethane	2.0400		"	2.0000		102	60.2-138			
Tetrachloroethene (Tetrachloroethylene)	2.0500		"	2.0000		102	65.1-133			
1,3-Dichloropropane	2.0000		"	2.0000		100	67.4-133			
Methyl Butyl Ketone	4.3700		"	4.0000		109	49.9-156			
Toluene	2.0700		"	2.0000		104	67.7-131			
Chlorobenzene	2.1400		"	2.0000		107	68.4-129			
1,1,1,2-Tetrachloroethane	1.7600		"	2.0000		88.0	56.5-148			
Ethyl Benzene	2.0300		"	2.0000		102	70-134			
(m- and/or p-)Xylene	4.3100		"	4.0000		108	71.3-137			
o-Xylene	1.9200		"	2.0000		96.0	68.9-136			
Styrene	2.0100		"	2.0000		100	69.9-139			
1,2,3-Trichloropropane	2.1100		"	2.0000		106	63.4-134			
o-Chlorotoluene	1.9700		"	2.0000		98.5	65.8-134			
p-Chlorotoluene	1.9900		"	2.0000		99.5	66.5-134			
1,3-Dichlorobenzene	1.9900		"	2.0000		99.5	66.4-132			
1,4-Dichlorobenzene	2.0200		"	2.0000		101	66.5-130			
1,2-Dichlorobenzene	2.0600		"	2.0000		103	66.4-131			
1,2-Dibromoethane (EDB)	2.1200		"	2.0000		106	67.3-135			
Isopropylbenzene	1.9000		"	2.0000		95.0	64.5-140			
n-Propylbenzene	1.9700		"	2.0000		98.5	67-137			
1,3,5-Trimethylbenzene	1.9400		"	2.0000		97.0	66.8-139			
tert-Butylbenzene	1.8700		"	2.0000		93.5	65.2-139			
1,2,4-Trimethylbenzene	1.9300		"	2.0000		96.5	66.5-141			
sec-Butylbenzene	1.9200		"	2.0000		96.0	66.2-140			
p-Isopropyltoluene	1.9500		"	2.0000		97.5	66.3-143			
n-Butylbenzene	1.9400		"	2.0000		97.0	65.7-141			
1,2-Dibromo-3-Chloropropane (DBCP)	3.8200		"	4.0000		95.5	52.3-156			
1,2,4-Trichlorobenzene	1.9200		"	2.0000		96.0	63.9-137			
Hexachlorobutadiene	2.1900		"	2.0000		110	60.2-136			
1,2,3-Trichlorobenzene	1.9900		"	2.0000		99.5	65-137			
Naphthalene	2.0300		"	2.0000		102	60.8-147			





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1111018 - V 5030B VOA Wtr Prep**

**Blank (1111018-BLK1)**

Prepared & Analyzed: 11/04/11

**EPA 8260C**

Surrogate: Toluene-d8	24.6		ug/L	25.000		98.6	86.6-107			
Surrogate: p-Bromofluorobenzene	24.8		"	25.000		99.4	88-108			
Surrogate: Dibromofluoromethane	25.7		"	25.000		103	90-110			
Dichlorodifluoromethane (Freon 12)	U	0.50	"							U
Chloromethane	U	0.50	"							U
Bromomethane	U	2.0	"							U
Vinyl chloride	U	0.50	"							U
Chloroethane	U	2.0	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
Acetone	U	4.0	"							U
Carbon disulfide	U	0.50	"							U
Methyl Acetate	U	1.0	"							U
1,1-Dichloroethane	U	0.50	"							U
cis-1,2-Dichloroethene	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
Methyl Ethyl Ketone	U	1.0	"							U
Bromochloromethane	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
Chloroform	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
Cyclohexane	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
Carbon Tetrachloride	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Methyl Isobutyl Ketone	U	1.0	"							U
1,2-Dichloropropane	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
Dibromomethane	U	0.50	"							U
trans-1,3-Dichloropropene	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Benzene	U	0.50	"							U
Dibromochloromethane	U	0.50	"							U
1,1,2-Trichloroethane	U	0.50	"							U



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Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1111018 - V 5030B VOA Wtr Prep</b>										
<b>Blank (1111018-BLK1)</b>										
Prepared & Analyzed: 11/04/11										
cis-1,3-Dichloropropene	U	0.50	ug/L							U
Bromoform	U	1.0	"							U
Bromobenzene	U	0.50	"							U
1,1,2,2-Tetrachloroethane	U	0.50	"							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
1,3-Dichloropropane	U	0.50	"							U
Methyl Butyl Ketone	U	1.0	"							U
Toluene	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
(m- and/or p-)Xylene	U	1.0	"							U
o-Xylene	U	0.50	"							U
Styrene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
1,2-Dibromoethane (EDB)	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	1.0	"							U
1,2,4-Trichlorobenzene	U	0.50	"							U
Hexachlorobutadiene	U	0.50	"							U
1,2,3-Trichlorobenzene	U	0.50	"							U
Naphthalene	U	0.50	"							U
Tentatively Identified Compounds	U	10	"							



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**Volatile Organics (VOA) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1111018 - V 5030B VOA Wtr Prep**

LCS (1111018-BS1)

Prepared & Analyzed: 11/04/11

**EPA 8260C**

Surrogate: Dibromofluoromethane	25.5		ug/L	25.000		102	90-110			
Surrogate: p-Bromofluorobenzene	24.9		"	25.000		99.7	88-108			
Surrogate: Toluene-d8	24.6		"	25.000		98.4	86.6-107			
Dichlorodifluoromethane (Freon 12)	21.510		"	20.000		108	63.5-132			
Chloromethane	19.310		"	20.000		96.6	68.9-118			
Bromomethane	19.320		"	20.000		96.6	49.9-140			
Vinyl chloride	20.160		"	20.000		101	78.8-115			
Chloroethane	21.070		"	20.000		105	76.7-118			
Trichlorofluoromethane (Freon 11)	22.170		"	20.000		111	78-129			
1,1-Dichloroethene (1,1-Dichloroethylene)	21.180		"	20.000		106	85.4-116			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	21.990		"	20.000		110	80-124			
Methylene Chloride	20.320		"	20.000		102	81.2-118			
Methyl T-Butyl Ether (MTBE)	21.630		"	20.000		108	80.1-123			
Acetone	46.350		"	40.000		116	49.7-153			
Carbon disulfide	20.560		"	20.000		103	81.7-114			
Methyl Acetate	43.270		"	40.000		108	75.8-121			
1,1-Dichloroethane	20.620		"	20.000		103	87.8-113			
cis-1,2-Dichloroethene	21.080		"	20.000		105	87.6-115			
2,2-Dichloropropane	21.900		"	20.000		110	53.4-154			
Methyl Ethyl Ketone	45.170		"	40.000		113	68.1-135			
Bromochloromethane	20.040		"	20.000		100	83.6-117			
trans-1,2-Dichloroethene	20.660		"	20.000		103	86.6-114			
Chloroform	20.800		"	20.000		104	87.9-115			
1,2-Dichloroethane	21.580		"	20.000		108	83.9-122			
1,1,1-Trichloroethane	21.660		"	20.000		108	79.3-126			
Cyclohexane	22.210		"	20.000		111	83.5-122			
1,1-Dichloropropene	21.500		"	20.000		108	89.4-115			
Carbon Tetrachloride	23.140		"	20.000		116	68.8-140			
Bromodichloromethane	21.880		"	20.000		109	80-125			
Methyl Isobutyl Ketone	44.390		"	40.000		111	77-127			
1,2-Dichloropropane	20.630		"	20.000		103	88-113			
Methylcyclohexane	22.330		"	20.000		112	82.6-124			
Dibromomethane	21.440		"	20.000		107	87.3-117			
trans-1,3-Dichloropropene	21.970		"	20.000		110	77.4-127			
Trichloroethene (Trichloroethylene)	20.850		"	20.000		104	87.8-114			
Benzene	20.560		"	20.000		103	89.6-113			
Dibromochloromethane	22.420		"	20.000		112	71.7-133			
1,1,2-Trichloroethane	20.430		"	20.000		102	87.1-111			





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**Volatile Organics (VOA) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1111018 - V 5030B VOA Wtr Prep</b>										
<b>LCS (1111018-BS1)</b>										
Prepared & Analyzed: 11/04/11										
cis-1,3-Dichloropropene	20.910		ug/L	20.000		105	81-121			
Bromoform	44.820		"	40.000		112	63.1-142			
Bromobenzene	20.080		"	20.000		100	84.6-112			
1,1,2,2-Tetrachloroethane	21.370		"	20.000		107	80.2-118			
Tetrachloroethene (Tetrachloroethylene)	20.330		"	20.000		102	85.1-113			
1,3-Dichloropropane	20.510		"	20.000		103	87.4-113			
Methyl Butyl Ketone	46.820		"	40.000		117	69.9-136			
Toluene	20.420		"	20.000		102	87.7-111			
Chlorobenzene	20.340		"	20.000		102	88.4-109			
1,1,1,2-Tetrachloroethane	22.650		"	20.000		113	76.5-128			
Ethyl Benzene	21.020		"	20.000		105	90-114			
(m- and/or p-)Xylene	43.090		"	40.000		108	91.3-117			
o-Xylene	21.050		"	20.000		105	88.9-116			
Styrene	21.640		"	20.000		108	89.9-119			
1,2,3-Trichloropropane	21.380		"	20.000		107	83.4-114			
o-Chlorotoluene	20.520		"	20.000		103	85.8-114			
p-Chlorotoluene	20.740		"	20.000		104	86.5-114			
1,3-Dichlorobenzene	20.490		"	20.000		102	86.4-112			
1,4-Dichlorobenzene	20.440		"	20.000		102	86.5-110			
1,2-Dichlorobenzene	20.680		"	20.000		103	86.4-111			
1,2-Dibromoethane (EDB)	21.460		"	20.000		107	87.3-115			
Isopropylbenzene	20.900		"	20.000		104	84.5-120			
n-Propylbenzene	21.180		"	20.000		106	87-117			
1,3,5-Trimethylbenzene	21.550		"	20.000		108	86.8-119			
tert-Butylbenzene	20.990		"	20.000		105	85.2-119			
1,2,4-Trimethylbenzene	21.320		"	20.000		107	86.5-121			
sec-Butylbenzene	21.560		"	20.000		108	86.2-120			
p-Isopropyltoluene	21.680		"	20.000		108	86.3-123			
n-Butylbenzene	21.920		"	20.000		110	85.7-121			
1,2-Dibromo-3-Chloropropane (DBCP)	48.230		"	40.000		121	72.3-136			
1,2,4-Trichlorobenzene	20.930		"	20.000		105	83.9-117			
Hexachlorobutadiene	20.650		"	20.000		103	80.2-116			
1,2,3-Trichlorobenzene	21.270		"	20.000		106	85-117			
Naphthalene	23.590		"	20.000		118	80.8-127			



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**Volatile Organics (VOA) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1111018 - V 5030B VOA Wtr Prep**

Duplicate (1111018-DUP1)

Source: E114512-05

Prepared & Analyzed: 11/04/11

**EPA 8260C**

Surrogate: Toluene-d8	25.1		ug/L	25.000		100	86.6-107			
Surrogate: Dibromofluoromethane	25.1		"	25.000		100	90-110			
Surrogate: p-Bromofluorobenzene	25.9		"	25.000		103	88-108			
Dichlorodifluoromethane (Freon 12)	U	10	"		U			20		U
Chloromethane	U	10	"		U			20		U
Bromomethane	U	40	"		U			20		U
Vinyl chloride	U	10	"		U			20		U
Chloroethane	U	40	"		U			20		U
Trichlorofluoromethane (Freon 11)	U	10	"		U			20		U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	10	"		U			20		U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	10	"		U			20		U
Methylene Chloride	U	10	"		U			20		U
Methyl T-Butyl Ether (MTBE)	U	10	"		U			20		U
Acetone	U	80	"		U			20		U
Carbon disulfide	U	10	"		6.0000			20		U
Methyl Acetate	U	20	"		U			20		U
1,1-Dichloroethane	U	10	"		U			20		U
cis-1,2-Dichloroethene	U	10	"		U			20		U
2,2-Dichloropropane	U	10	"		U			20		U
Methyl Ethyl Ketone	U	20	"		U			20		U
Bromochloromethane	U	10	"		U			20		U
trans-1,2-Dichloroethene	U	10	"		U			20		U
Chloroform	U	10	"		U			20		U
1,2-Dichloroethane	U	10	"		U			20		U
1,1,1-Trichloroethane	U	10	"		U			20		U
Cyclohexane	U	10	"		U			20		U
1,1-Dichloropropene	U	10	"		U			20		U
Carbon Tetrachloride	U	10	"		U			20		U
Bromodichloromethane	U	10	"		U			20		U
Methyl Isobutyl Ketone	U	20	"		U			20		U
1,2-Dichloropropane	U	10	"		U			20		U
Methylcyclohexane	U	10	"		U			20		U
Dibromomethane	U	10	"		U			20		U
trans-1,3-Dichloropropene	U	10	"		U			20		U
Trichloroethene (Trichloroethylene)	U	10	"		U			20		U
Benzene	84.400	10	"		81.600			3.37	20	
Dibromochloromethane	U	10	"		U			20		U
1,1,2-Trichloroethane	U	10	"		U			20		U



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**Volatile Organics (VOA) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1111018 - V 5030B VOA Wtr Prep**

Duplicate (1111018-DUP1)	Source: E114512-05			Prepared & Analyzed: 11/04/11						
cis-1,3-Dichloropropene	U	10	ug/L		U				20	U
Bromoform	U	20	"		U				20	U
Bromobenzene	U	10	"		U				20	U
1,1,2,2-Tetrachloroethane	U	10	"		U				20	U
Tetrachloroethene (Tetrachloroethylene)	U	10	"		U				20	U
1,3-Dichloropropane	U	10	"		U				20	U
Methyl Butyl Ketone	U	20	"		U				20	U
Toluene	81.200	10	"		81.000			0.247	20	
Chlorobenzene	U	10	"		U				20	U
1,1,1,2-Tetrachloroethane	U	10	"		U				20	U
Ethyl Benzene	63.800	10	"		64.400			0.936	20	
(m- and/or p-)Xylene	98.600	20	"		99.600			1.01	20	
o-Xylene	51.000	10	"		53.200			4.22	20	
Styrene	9.4000	10	"		9.4000			0.00	20	Q-2, J
1,2,3-Trichloropropane	U	10	"		U				20	U
o-Chlorotoluene	U	10	"		U				20	U
p-Chlorotoluene	U	10	"		U				20	U
1,3-Dichlorobenzene	U	10	"		U				20	U
1,4-Dichlorobenzene	U	10	"		U				20	U
1,2-Dichlorobenzene	U	10	"		U				20	U
1,2-Dibromoethane (EDB)	U	10	"		U				20	U
Isopropylbenzene	64.200	10	"		64.200			0.00	20	
n-Propylbenzene	2.8000	10	"		2.6000			7.41	20	Q-2, J
1,3,5-Trimethylbenzene	94.000	10	"		93.800			0.213	20	
tert-Butylbenzene	U	10	"		U				20	U
1,2,4-Trimethylbenzene	361.80	10	"		362.80			0.276	20	
sec-Butylbenzene	U	10	"		U				20	U
p-Isopropyltoluene	10.000	10	"		10.400			3.92	20	D-2, J
n-Butylbenzene	U	10	"		U				20	U
1,2-Dibromo-3-Chloropropane (DBCP)	U	20	"		U				20	U
1,2,4-Trichlorobenzene	U	10	"		U				20	U
Hexachlorobutadiene	U	10	"		U				20	U
1,2,3-Trichlorobenzene	U	10	"		U				20	U
Naphthalene	4221.4	10	"		4301.0			1.87	20	J, QC-4
Tentatively Identified Compounds	U	200	"		0.0000				200	





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1111018 - V 5030B VOA Wtr Prep**

Matrix Spike (1111018-MS1)

Source: E114512-01

Prepared & Analyzed: 11/04/11

**EPA 8260C**

Surrogate: Dibromofluoromethane	25.1		ug/L	25.000		100	90-110			
Surrogate: Toluene-d8	25.5		"	25.000		102	86.6-107			
Surrogate: p-Bromofluorobenzene	26.3		"	25.000		105	88-108			
Dichlorodifluoromethane (Freon 12)	9.5900		"	10.233	U	93.7	71.1-152			
Chloromethane	12.960		"	10.233	U	127	67.3-138			
Bromomethane	4.6700		"	10.233	U	45.6	33.6-168			
Vinyl chloride	10.030		"	10.233	U	98.0	84.5-135			
Chloroethane	10.290		"	10.233	U	101	70.6-150			
Trichlorofluoromethane (Freon 11)	10.130		"	10.233	U	99.0	87.3-147			
1,1-Dichloroethene (1,1-Dichloroethylene)	10.410		"	10.233	U	102	87.5-133			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	10.530		"	10.233	U	103	87.8-141			
Methylene Chloride	9.4200		"	10.233	U	92.1	80.7-129			
Methyl T-Butyl Ether (MTBE)	10.060		"	10.233	U	98.3	76.5-127			
Acetone	22.840		"	20.465	3.9500	92.3	48.2-133			
Carbon disulfide	9.9100		"	10.233	U	96.8	40.9-152			
Methyl Acetate	19.540		"	20.465	U	95.5	66.1-122			
1,1-Dichloroethane	9.8900		"	10.233	U	96.6	87.6-126			
cis-1,2-Dichloroethene	10.030		"	10.233	U	98.0	85.3-127			
2,2-Dichloropropane	10.730		"	10.233	U	105	45.4-163			
Methyl Ethyl Ketone	22.110		"	20.465	U	108	60.8-127			
Bromochloromethane	9.5600		"	10.233	U	93.4	82.7-126			
trans-1,2-Dichloroethene	10.100		"	10.233	U	98.7	86.8-128			
Chloroform	9.5400		"	10.233	0.050000	92.7	87.6-128			
1,2-Dichloroethane	9.2700		"	10.233	U	90.6	83.5-129			
1,1,1-Trichloroethane	10.090		"	10.233	U	98.6	85.6-137			
Cyclohexane	11.670		"	10.233	U	114	85.1-140			
1,1-Dichloropropene	10.670		"	10.233	U	104	90.2-132			
Carbon Tetrachloride	9.8900		"	10.233	U	96.6	75.4-144			
Bromodichloromethane	9.5000		"	10.233	U	92.8	81.1-125			
Methyl Isobutyl Ketone	21.300		"	20.465	U	104	73.9-125			
1,2-Dichloropropane	9.9400		"	10.233	U	97.1	85.3-125			
Methylcyclohexane	10.880		"	10.233	U	106	81.4-144			
Dibromomethane	9.2900		"	10.233	U	90.8	83.2-124			
trans-1,3-Dichloropropene	8.5800		"	10.233	U	83.8	66.9-126			
Trichloroethene (Trichloroethylene)	10.210		"	10.233	U	99.8	87.2-128			
Benzene	14.370		"	10.233	3.8900	102	88.8-127			
Dibromochloromethane	9.4600		"	10.233	U	92.4	67.1-128			
1,1,2-Trichloroethane	9.7100		"	10.233	U	94.9	83.6-119			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Sallie Hale

**Volatile Organics (VOA) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1111018 - V 5030B VOA Wtr Prep</b>										
<b>Matrix Spike (1111018-MS1)</b>										
<b>Source: E114512-01</b>										
<b>Prepared &amp; Analyzed: 11/04/11</b>										
cis-1,3-Dichloropropene	8.3600		ug/L	10.233	U	81.7	73-125			
Bromoform	20.860		"	20.465	U	102	50.7-133			
Bromobenzene	9.8300		"	10.233	U	96.1	80.5-121			
1,1,2,2-Tetrachloroethane	10.040		"	10.233	U	98.1	78-121			
Tetrachloroethene (Tetrachloroethylene)	10.030		"	10.233	U	98.0	66.4-149			
1,3-Dichloropropane	9.7700		"	10.233	U	95.5	83.6-121			
Methyl Butyl Ketone	21.890		"	20.465	U	107	66.9-124			
Toluene	14.920		"	10.233	4.2000	105	85.6-126			
Chlorobenzene	10.050		"	10.233	U	98.2	85.5-123			
1,1,1,2-Tetrachloroethane	10.030		"	10.233	U	98.0	77.4-127			
Ethyl Benzene	14.070		"	10.233	3.4100	104	85-130			
(m- and/or p-)Xylene	26.930		"	20.465	5.3900	105	81.5-138			
o-Xylene	14.490		"	10.233	3.8400	104	78.6-130			
Styrene	10.240		"	10.233	0.55000	94.7	34.5-158			
1,2,3-Trichloropropane	9.8300		"	10.233	U	96.1	78.9-120			
o-Chlorotoluene	10.170		"	10.233	U	99.4	80.6-128			
p-Chlorotoluene	10.380		"	10.233	U	101	79.4-129			
1,3-Dichlorobenzene	9.7200		"	10.233	U	95.0	79-125			
1,4-Dichlorobenzene	9.7500		"	10.233	U	95.3	78.3-124			
1,2-Dichlorobenzene	9.7800		"	10.233	U	95.6	78.4-125			
1,2-Dibromoethane (EDB)	9.9500		"	10.233	U	97.2	83.4-119			
Isopropylbenzene	11.100		"	10.233	0.070000	108	82.2-134			
n-Propylbenzene	10.920		"	10.233	U	107	79.7-136			
1,3,5-Trimethylbenzene	10.380		"	10.233	U	101	61.9-143			
tert-Butylbenzene	10.570		"	10.233	U	103	79.5-134			
1,2,4-Trimethylbenzene	10.580		"	10.233	0.070000	103	57.5-147			
sec-Butylbenzene	10.760		"	10.233	U	105	79-138			
p-Isopropyltoluene	10.960		"	10.233	0.10000	106	76.7-138			
n-Butylbenzene	10.650		"	10.233	U	104	74.7-136			
1,2-Dibromo-3-Chloropropane (DBCP)	21.430		"	20.465	U	105	68.3-125			
1,2,4-Trichlorobenzene	9.6200		"	10.233	U	94.0	67.6-125			
Hexachlorobutadiene	9.3100		"	10.233	U	91.0	67.2-136			
1,2,3-Trichlorobenzene	9.5500		"	10.233	U	93.3	69.5-126			
Naphthalene	15.690		"	10.233	0.39000	150	61-134			XB-1



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**Volatile Organics (VOA) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1111018 - V 5030B VOA Wtr Prep**

MRL Verification (1111018-PS1)

Prepared & Analyzed: 11/04/11

**EPA 8260C**

Surrogate: Toluene-d8	24.8		ug/L	25.000		99.3	86.6-107			
Surrogate: Dibromofluoromethane	25.9		"	25.000		104	90-110			
Surrogate: p-Bromofluorobenzene	24.9		"	25.000		99.8	88-108			
Dichlorodifluoromethane (Freon 12)	0.56000		"	0.50000		112	43.5-152			MRL-2
Chloromethane	0.50000		"	0.50000		100	48.9-138			MRL-2
Bromomethane	0.79000		"	0.50000		158	29.9-160			
Vinyl chloride	0.55000		"	0.50000		110	58.8-135			MRL-2
Chloroethane	0.57000		"	0.50000		114	56.7-138			
Trichlorofluoromethane (Freon 11)	0.57000		"	0.50000		114	58-149			MRL-2
1,1-Dichloroethene (1,1-Dichloroethylene)	0.52000		"	0.50000		104	65.4-136			MRL-2
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.57000		"	0.50000		114	60-144			MRL-2
Methylene Chloride	0.54000		"	0.50000		108	61.2-138			MRL-2
Methyl T-Butyl Ether (MTBE)	0.50000		"	0.50000		100	60.1-143			MRL-2
Acetone	1.7100		"	1.0000		171	29.7-173			
Carbon disulfide	0.52000		"	0.50000		104	61.7-134			MRL-2
Methyl Acetate	1.0500		"	1.0000		105	55.8-141			MRL-2
1,1-Dichloroethane	0.53000		"	0.50000		106	67.8-133			MRL-2
cis-1,2-Dichloroethene	0.54000		"	0.50000		108	67.6-135			MRL-2
2,2-Dichloropropane	0.50000		"	0.50000		100	33.4-174			MRL-2
Methyl Ethyl Ketone	1.1500		"	1.0000		115	48.1-155			MRL-2
Bromochloromethane	0.53000		"	0.50000		106	63.6-137			MRL-2
trans-1,2-Dichloroethene	0.53000		"	0.50000		106	66.6-134			MRL-2
Chloroform	0.53000		"	0.50000		106	67.9-135			MRL-2
1,2-Dichloroethane	0.57000		"	0.50000		114	63.9-142			MRL-2
1,1,1-Trichloroethane	0.55000		"	0.50000		110	59.3-146			MRL-2
Cyclohexane	0.51000		"	0.50000		102	63.5-142			MRL-2
1,1-Dichloropropene	0.51000		"	0.50000		102	69.4-135			MRL-2
Carbon Tetrachloride	0.51000		"	0.50000		102	48.8-160			MRL-2
Bromodichloromethane	0.51000		"	0.50000		102	60-145			MRL-2
Methyl Isobutyl Ketone	0.96000		"	1.0000		96.0	57-147			MRL-2
1,2-Dichloropropane	0.51000		"	0.50000		102	68-133			MRL-2
Methylcyclohexane	0.51000		"	0.50000		102	62.6-144			MRL-2
Dibromomethane	0.55000		"	0.50000		110	67.3-137			MRL-2
trans-1,3-Dichloropropene	0.46000		"	0.50000		92.0	57.4-147			MRL-2
Trichloroethene (Trichloroethylene)	0.53000		"	0.50000		106	67.8-134			MRL-2
Benzene	0.52000		"	0.50000		104	69.6-133			MRL-2
Dibromochloromethane	0.46000		"	0.50000		92.0	51.7-153			MRL-2
1,1,2-Trichloroethane	0.51000		"	0.50000		102	67.1-131			MRL-2





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**Volatile Organics (VOA) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1111018 - V 5030B VOA Wtr Prep</b>										
<b>MRL Verification (1111018-PS1)</b>				Prepared & Analyzed: 11/04/11						
cis-1,3-Dichloropropene	0.41000		ug/L	0.50000		82.0	61-141			MRL-2
Bromoform	1.2600		"	1.0000		126	43.1-162			MRL-2
Bromobenzene	0.51000		"	0.50000		102	64.6-132			MRL-2
1,1,2,2-Tetrachloroethane	0.53000		"	0.50000		106	60.2-138			MRL-2
Tetrachloroethene (Tetrachloroethylene)	0.51000		"	0.50000		102	65.1-133			MRL-2
1,3-Dichloropropane	0.49000		"	0.50000		98.0	67.4-133			MRL-2
Methyl Butyl Ketone	0.94000		"	1.0000		94.0	49.9-156			MRL-2
Toluene	0.54000		"	0.50000		108	67.7-131			MRL-2
Chlorobenzene	0.51000		"	0.50000		102	68.4-129			MRL-2
1,1,1,2-Tetrachloroethane	0.48000		"	0.50000		96.0	56.5-148			MRL-2
Ethyl Benzene	0.49000		"	0.50000		98.0	70-134			MRL-2
(m- and/or p-)Xylene	1.0500		"	1.0000		105	71.3-137			MRL-2
o-Xylene	0.47000		"	0.50000		94.0	68.9-136			MRL-2
Styrene	0.45000		"	0.50000		90.0	69.9-139			MRL-2
1,2,3-Trichloropropane	0.57000		"	0.50000		114	63.4-134			MRL-2
o-Chlorotoluene	0.50000		"	0.50000		100	65.8-134			MRL-2
p-Chlorotoluene	0.49000		"	0.50000		98.0	66.5-134			MRL-2
1,3-Dichlorobenzene	0.49000		"	0.50000		98.0	66.4-132			MRL-2
1,4-Dichlorobenzene	0.53000		"	0.50000		106	66.5-130			MRL-2
1,2-Dichlorobenzene	0.46000		"	0.50000		92.0	66.4-131			MRL-2
1,2-Dibromoethane (EDB)	0.46000		"	0.50000		92.0	67.3-135			MRL-2
Isopropylbenzene	0.50000		"	0.50000		100	64.5-140			MRL-2
n-Propylbenzene	0.51000		"	0.50000		102	67-137			MRL-2
1,3,5-Trimethylbenzene	0.50000		"	0.50000		100	66.8-139			MRL-2
tert-Butylbenzene	0.48000		"	0.50000		96.0	65.2-139			MRL-2
1,2,4-Trimethylbenzene	0.46000		"	0.50000		92.0	66.5-141			MRL-2
sec-Butylbenzene	0.47000		"	0.50000		94.0	66.2-140			MRL-2
p-Isopropyltoluene	0.47000		"	0.50000		94.0	66.3-143			MRL-2
n-Butylbenzene	0.44000		"	0.50000		88.0	65.7-141			MRL-2
1,2-Dibromo-3-Chloropropane (DBCP)	1.1500		"	1.0000		115	52.3-156			MRL-2
1,2,4-Trichlorobenzene	0.49000		"	0.50000		98.0	63.9-137			MRL-2
Hexachlorobutadiene	0.50000		"	0.50000		100	60.2-136			MRL-2
1,2,3-Trichlorobenzene	0.46000		"	0.50000		92.0	65-137			MRL-2
Naphthalene	0.44000		"	0.50000		88.0	60.8-147			MRL-2



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**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-3 Level in blank does not impact data quality
- D-2 Due to Matrix Interference, the sample cannot be accurately quantified. The reported result is estimated.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-2 MRL verification for Non-Potable Water matrix
- Q-2 Result greater than MDL but less than MRL.
- QC-4 Result greater than the highest point on the calibration curve
- XB-1 Carryover from high level sample



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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

December 8, 2011

4SESD-ASB

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 12-0040, Capital City Plume  
Superfund Remedial

**FROM:** Mike Wasko  
ASB Inorganic Chemistry Section, Acting Chief

**THRU:** Gary Bennett, Chief  
Analytical Support Branch

**TO:** Kevin Simmons

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

**Total Metals (TMTL)**

Total Mercury

EPA 245.1





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**Report Narrative** for Work Order E114404, Project: 12-0040  
12/8/11 MW Mercury. Mercury results were confirmed by alternate analytical technique.

**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 12-0040, Capital City Plume**

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
PB18-1011	E114404-01	Preservative Blank	10/26/11 16:30	10/27/11 8:43
MW10S-1011	E114404-03	Groundwater	10/26/11 09:05	10/27/11 8:43
MW12I-1011	E114404-04	Groundwater	10/24/11 15:40	10/27/11 8:43
MW12S-1011	E114404-05	Groundwater	10/24/11 16:45	10/27/11 8:43
MW12SR-1011	E114404-06	Groundwater	10/25/11 17:40	10/27/11 8:43
MW1I-1011	E114404-07	Groundwater	10/25/11 16:35	10/27/11 8:43
MW1S-1011	E114404-08	Groundwater	10/25/11 17:05	10/27/11 8:43
MW2S-1011	E114404-09	Groundwater	10/26/11 14:30	10/27/11 8:43
MW4S-1011	E114404-10	Groundwater	10/26/11 13:05	10/27/11 8:43
MW4SD-1011	E114404-11	Groundwater	10/26/11 13:10	10/27/11 8:43
MW5I-1011	E114404-12	Groundwater	10/25/11 14:30	10/27/11 8:43
MW7I-1011	E114404-13	Groundwater	10/25/11 11:00	10/27/11 8:43
MW7S-1011	E114404-14	Groundwater	10/25/11 11:50	10/27/11 8:43
MW8I-1011	E114404-15	Groundwater	10/25/11 09:00	10/27/11 8:43
MW8S-1011	E114404-16	Groundwater	10/25/11 09:40	10/27/11 8:43
MW9S-1011	E114404-17	Groundwater	10/26/11 10:20	10/27/11 8:43



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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

**DATA QUALIFIER DEFINITIONS**

- U The analyte was not detected at or above the reporting limit.  
QM-2 Matrix Spike Recovery greater than method control limits

**ACRONYMS AND ABBREVIATIONS**

- CAS Chemical Abstracts Service  
Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ([www.epa.gov/srs](http://www.epa.gov/srs)), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700  
D.A.R.T. Id: 12-0040  
Project: 12-0040, Capital City Plume - Reported by Mike Wasko

### Total Metals

Project: 12-0040, Capital City Plume

Sample ID: PB18-1011

Lab ID: E114404-01

Station ID:

Matrix: Preservative Blank

Date Collected: 10/26/11 16:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.10	U	ug/L	0.10	11/08/11 10:48	11/08/11 15:21	EPA 245.1



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D.A.R.T. Id: 12-0040  
Project: 12-0040, Capital City Plume - Reported by Mike Wasko

### Total Metals

Project: 12-0040, Capital City Plume

Sample ID: MW10S-1011

Lab ID: E114404-03

Station ID: MW10S

Matrix: Groundwater

Date Collected: 10/26/11 9:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.15	QM-2	ug/L	0.10	11/08/11 10:48	11/08/11 15:21	EPA 245.1



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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW12I-1011

Lab ID: E114404-04

Station ID: MW12I

Matrix: Groundwater

Date Collected: 10/24/11 15:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.10 U	ug/L	0.10	11/08/11 10:48	11/08/11 15:21	EPA 245.1





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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

### Total Metals

Project: 12-0040, Capital City Plume

Sample ID: MW12S-1011

Lab ID: E114404-05

Station ID: MW12S

Matrix: Groundwater

Date Collected: 10/24/11 16:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.48		ug/L	0.10	11/08/11 10:48	11/08/11 15:21	EPA 245.1



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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW12SR-1011

Lab ID: E114404-06

Station ID: MW12S

Matrix: Groundwater

Date Collected: 10/25/11 17:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.10	U	ug/L	0.10	11/08/11 10:48	11/08/11 15:21	EPA 245.1



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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

**Total Metals**

Project: 12-0040, Capital City Plume

Sample ID: MW11-1011

Lab ID: E114404-07

Station ID: MW11

Matrix: Groundwater

Date Collected: 10/25/11 16:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.10	U	ug/L	0.10	11/08/11 10:48	11/08/11 15:21	EPA 245.1





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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

### Total Metals

Project: 12-0040, Capital City Plume

Sample ID: MW1S-1011

Lab ID: E114404-08

Station ID: MW1S

Matrix: Groundwater

Date Collected: 10/25/11 17:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.24		ug/L	0.10	11/08/11 10:48	11/08/11 15:21	EPA 245.1



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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

### Total Metals

Project: 12-0040, Capital City Plume

Sample ID: MW2S-1011

Lab ID: E114404-09

Station ID: MW2S

Matrix: Groundwater

Date Collected: 10/26/11 14:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	2.2		ug/L	0.10	11/08/11 10:48	11/08/11 15:21	EPA 245.1



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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW4S-1011

Lab ID: E114404-10

Station ID: MW4S

Matrix: Groundwater

Date Collected: 10/26/11 13:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.10	U, QM-2	ug/L	0.10	11/08/11 10:48	11/09/11 15:26	EPA 245.1





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Region 4 Science and Ecosystem Support Division

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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW4SD-1011

Lab ID: E114404-11

Station ID: MW4S

Matrix: Groundwater

Date Collected: 10/26/11 13:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.10	U	ug/L	0.10	11/08/11 10:48	11/09/11 15:26	EPA 245.1



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Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 12-0040  
Project: 12-0040, Capital City Plume - Reported by Mike Wasko

### Total Metals

Project: 12-0040, Capital City Plume

Sample ID: MW5I-1011

Lab ID: E114404-12

Station ID: MW5I

Matrix: Groundwater

Date Collected: 10/25/11 14:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.10	U	ug/L	0.10	11/08/11 10:48	11/09/11 15:26	EPA 245.1



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Region 4 Science and Ecosystem Support Division

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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

### Total Metals

Project: 12-0040, Capital City Plume

Sample ID: MW7I-1011

Lab ID: E114404-13

Station ID: MW7I

Matrix: Groundwater

Date Collected: 10/25/11 11:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.10	U	ug/L	0.10	11/08/11 10:48	11/09/11 15:26	EPA 245.1





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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

### Total Metals

Project: 12-0040, Capital City Plume

Sample ID: MW7S-1011

Lab ID: E114404-14

Station ID: MW7S

Matrix: Groundwater

Date Collected: 10/25/11 11:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.10	U	ug/L	0.10	11/08/11 10:48	11/09/11 15:26	EPA 245.1



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

### Total Metals

Project: 12-0040, Capital City Plume

Sample ID: MW8I-1011

Lab ID: E114404-15

Station ID: MW8I

Matrix: Groundwater

Date Collected: 10/25/11 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.10	U	ug/L	0.10	11/08/11 10:48	11/09/11 15:26	EPA 245.1



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980 College Station Road, Athens, Georgia 30605-2700  
D.A.R.T. Id: 12-0040  
Project: 12-0040, Capital City Plume - Reported by Mike Wasko

### Total Metals

Project: 12-0040, Capital City Plume

Sample ID: MW8S-1011

Lab ID: E114404-16

Station ID: MW8S

Matrix: Groundwater

Date Collected: 10/25/11 9:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.10	U	ug/L	0.10	11/08/11 10:48	11/09/11 13:26	EPA 245.1





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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

### Total Metals

Project: 12-0040, Capital City Plume

Sample ID: MW9S-1011

Lab ID: E114404-17

Station ID: MW9S

Matrix: Groundwater

Date Collected: 10/26/11 10:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7439-97-6	Mercury	0.10	U	ug/L	0.10	11/08/11 10:48	11/09/11 15:26	EPA 245.1



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, SEDS**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1111026 - M 245.1 Hg Wtr</b>										
<b>Blank (1111026-BLK1)</b>					Prepared & Analyzed: 11/08/11					
<b>EPA 245.1</b>										
Mercury	U	0.10	ug/L							U
<b>LCS (1111026-BS1)</b>					Prepared & Analyzed: 11/08/11					
<b>EPA 245.1</b>										
Mercury	2.0430	0.10	ug/L	2.0000		102	85-115			
<b>LCS Dup (1111026-BSD1)</b>					Prepared & Analyzed: 11/08/11					
<b>EPA 245.1</b>										
Mercury	2.0650	0.10	ug/L	2.0000		103	85-115	1.07	20	
<b>Matrix Spike (1111026-MS1)</b>					<b>Source: E114404-03</b>		Prepared & Analyzed: 11/08/11			
<b>EPA 245.1</b>										
Mercury	3.0510	0.10	ug/L	2.0000	0.15400	145	70-130			QM-2
<b>Matrix Spike Dup (1111026-MSD1)</b>					<b>Source: E114404-03</b>		Prepared & Analyzed: 11/08/11			
<b>EPA 245.1</b>										
Mercury	3.0420	0.10	ug/L	2.0000	0.15400	144	70-130	0.311	20	QM-2
<b>MRL Verification (1111026-PS1)</b>					Prepared & Analyzed: 11/08/11					
<b>EPA 245.1</b>										
Mercury	0.095000	0.10	ug/L	0.10000		95.0	65-135			MRL-2, U
<b>Batch 1111027 - M 245.1 Hg Wtr</b>										
<b>Blank (1111027-BLK1)</b>					Prepared & Analyzed: 11/09/11					
<b>EPA 245.1</b>										
Mercury	U	0.10	ug/L							U
<b>LCS (1111027-BS1)</b>					Prepared & Analyzed: 11/09/11					
<b>EPA 245.1</b>										
Mercury	2.0480	0.10	ug/L	2.0000		102	85-115			
<b>LCS Dup (1111027-BSD1)</b>					Prepared & Analyzed: 11/09/11					
<b>EPA 245.1</b>										
Mercury	2.0640	0.10	ug/L	2.0000		103	85-115	0.778	20	



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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Mike Wasko

**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1111027 - M 245.1 Hg Wtr</b>										
<b>Matrix Spike (1111027-MS1)</b>		<b>Source: E114404-03RE1</b>			<b>Prepared &amp; Analyzed: 11/09/11</b>					
<b>EPA 245.1</b>										
Mercury	3.0260	0.10	ug/L	2.0000	0.15800	143	70-130			QM-2
<b>Matrix Spike (1111027-MS2)</b>		<b>Source: E114404-10</b>			<b>Prepared &amp; Analyzed: 11/09/11</b>					
<b>EPA 245.1</b>										
Mercury	3.0910	0.10	ug/L	2.0000	0.024000	153	70-130			QM-2
<b>Matrix Spike Dup (1111027-MSD1)</b>		<b>Source: E114404-03RE1</b>			<b>Prepared &amp; Analyzed: 11/09/11</b>					
<b>EPA 245.1</b>										
Mercury	3.0500	0.10	ug/L	2.0000	0.15800	145	70-130	0.833	20	QM-2
<b>Matrix Spike Dup (1111027-MSD2)</b>		<b>Source: E114404-10</b>			<b>Prepared &amp; Analyzed: 11/09/11</b>					
<b>EPA 245.1</b>										
Mercury	3.0370	0.10	ug/L	2.0000	0.024000	151	70-130	1.78	20	QM-2
<b>MRL Verification (1111027-PS1)</b>					<b>Prepared &amp; Analyzed: 11/09/11</b>					
<b>EPA 245.1</b>										
Mercury	0.10000	0.10	ug/L	0.10000		100	65-135			MRL-2





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Project: 12-0040, Capital City Plume - Reported by Mike Wasko

**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- MRL-2 MRL verification for Non-Potable Water matrix
- QM-2 Matrix Spike Recovery greater than method control limits



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

November 18, 2011

4SESD-ASB

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 12-0040, Capital City Plume  
Superfund Remedial

**FROM:** Roberta Howes  
ICS Chemist

**THRU:** Jenny Scifres, Chief  
ASB Inorganic Chemistry Section

**TO:** Kevin Simmons

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

**Total Metals (TMTL)**

Total Metals  
Total Metals

EPA 200.7  
EPA 200.8



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner





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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**SAMPLES INCLUDED IN THIS REPORT**

**Project: 12-0040, Capital City Plume**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
PB18-1011	E114404-01	Preservative Blank	10/26/11 16:30	10/27/11 8:43
MW10S-1011	E114404-03	Groundwater	10/26/11 09:05	10/27/11 8:43
MW12I-1011	E114404-04	Groundwater	10/24/11 15:40	10/27/11 8:43
MW12S-1011	E114404-05	Groundwater	10/24/11 16:45	10/27/11 8:43
MW12SR-1011	E114404-06	Groundwater	10/25/11 17:40	10/27/11 8:43
MW1I-1011	E114404-07	Groundwater	10/25/11 16:35	10/27/11 8:43
MW1S-1011	E114404-08	Groundwater	10/25/11 17:05	10/27/11 8:43
MW2S-1011	E114404-09	Groundwater	10/26/11 14:30	10/27/11 8:43
MW4S-1011	E114404-10	Groundwater	10/26/11 13:05	10/27/11 8:43
MW4SD-1011	E114404-11	Groundwater	10/26/11 13:10	10/27/11 8:43
MW5I-1011	E114404-12	Groundwater	10/25/11 14:30	10/27/11 8:43
MW7I-1011	E114404-13	Groundwater	10/25/11 11:00	10/27/11 8:43
MW7S-1011	E114404-14	Groundwater	10/25/11 11:50	10/27/11 8:43
MW8I-1011	E114404-15	Groundwater	10/25/11 09:00	10/27/11 8:43
MW8S-1011	E114404-16	Groundwater	10/25/11 09:40	10/27/11 8:43
MW9S-1011	E114404-17	Groundwater	10/26/11 10:20	10/27/11 8:43



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D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**DATA QUALIFIER DEFINITIONS**

- U The analyte was not detected at or above the reporting limit.
- B-2 Reporting level elevated due to trace amounts of analyte present in the method blank.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- QC-5 Calibration check standard less than method control limits.

**ACRONYMS AND ABBREVIATIONS**

- CAS Chemical Abstracts Service  
Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ([www.epa.gov/srs](http://www.epa.gov/srs)), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

**Sample ID: PB18-1011**

**Lab ID: E114404-01**

**Station ID:**

**Matrix: Preservative Blank**

**Date Collected: 10/26/11 16:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7429-90-5	Aluminum	100	U	ug/L	100	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 17:56	EPA 200.8
7440-38-2	Arsenic	1.3	U, B-2	ug/L	1.3	11/03/11 10:50	11/09/11 17:56	EPA 200.8
7440-39-3	Barium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	11/03/11 10:50	11/09/11 17:56	EPA 200.8
7440-70-2	Calcium	250	U	ug/L	250	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-47-3	Chromium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7439-89-6	Iron	100	U	ug/L	100	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7439-92-1	Lead	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 17:56	EPA 200.8
7439-95-4	Magnesium	250	U	ug/L	250	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7439-96-5	Manganese	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-09-7	Potassium	1000	U	ug/L	1000	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	11/03/11 10:50	11/09/11 17:56	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-23-5	Sodium	1000	U	ug/L	1000	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-24-6	Strontium	5.0	U, J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 17:56	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-32-6	Titanium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 16:32	EPA 200.7
7440-66-6	Zinc	10	U	ug/L	10	11/03/11 10:45	11/09/11 16:32	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plumé - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plumé**

Sample ID: MW10S-1011

Lab ID: E114404-03

Station ID: MW10S

Matrix: Groundwater

Date Collected: 10/26/11 9:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	4600		ug/L	100	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:01	EPA 200.8
7440-38-2	Arsenic	1.3	U, B-2	ug/L	1.3	11/03/11 10:50	11/09/11 18:01	EPA 200.8
7440-39-3	Barium	79		ug/L	5.0	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-43-9	Cadmium	1.2		ug/L	0.50	11/03/11 10:50	11/09/11 18:01	EPA 200.8
7440-70-2	Calcium	12000		ug/L	250	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-47-3	Chromium	32		ug/L	5.0	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-50-8	Copper	16		ug/L	10	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7439-89-6	Iron	5500		ug/L	100	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7439-92-1	Lead	3.3		ug/L	1.0	11/03/11 10:50	11/09/11 18:01	EPA 200.8
7439-95-4	Magnesium	5300		ug/L	250	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7439-96-5	Manganese	46		ug/L	5.0	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-02-0	Nickel	17		ug/L	10	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-09-7	Potassium	3000		ug/L	1000	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7782-49-2	Selenium	3.0		ug/L	2.0	11/03/11 10:50	11/09/11 18:01	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-23-5	Sodium	25000		ug/L	1000	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-24-6	Strontium	64	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:01	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-32-6	Titanium	44		ug/L	5.0	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-62-2	Vanadium	8.1		ug/L	5.0	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-65-5	Yttrium	7.1		ug/L	3.0	11/03/11 10:45	11/09/11 16:38	EPA 200.7
7440-66-6	Zinc	76		ug/L	10	11/03/11 10:45	11/09/11 16:38	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW12I-1011

Lab ID: E114404-04

Station ID: MW12I

Matrix: Groundwater

Date Collected: 10/24/11 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	670		ug/L	100	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:25	EPA 200.8
7440-38-2	Arsenic	1.3	U, B-2	ug/L	1.3	11/03/11 10:50	11/09/11 18:25	EPA 200.8
7440-39-3	Barium	17		ug/L	5.0	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	11/03/11 10:50	11/09/11 18:25	EPA 200.8
7440-70-2	Calcium	4700		ug/L	250	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-47-3	Chromium	6.5		ug/L	5.0	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7439-89-6	Iron	830		ug/L	100	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7439-92-1	Lead	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:25	EPA 200.8
7439-95-4	Magnesium	740		ug/L	250	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7439-96-5	Manganese	47		ug/L	5.0	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-09-7	Potassium	1900		ug/L	1000	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	11/03/11 10:50	11/09/11 18:25	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-23-5	Sodium	12000		ug/L	1000	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-24-6	Strontium	93	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:25	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-32-6	Titanium	11		ug/L	5.0	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 17:25	EPA 200.7
7440-66-6	Zinc	22		ug/L	10	11/03/11 10:45	11/09/11 17:25	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW12S-1011

Lab ID: E114404-05

Station ID: MW12S

Matrix: Groundwater

Date Collected: 10/24/11 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	5100		ug/L	100	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:30	EPA 200.8
7440-38-2	Arsenic	1.8		ug/L	1.3	11/03/11 10:50	11/09/11 18:30	EPA 200.8
7440-39-3	Barium	100		ug/L	5.0	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	11/03/11 10:50	11/09/11 18:30	EPA 200.8
7440-70-2	Calcium	12000		ug/L	250	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-47-3	Chromium	34		ug/L	5.0	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7439-89-6	Iron	8900		ug/L	100	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7439-92-1	Lead	7.4		ug/L	1.0	11/03/11 10:50	11/09/11 18:30	EPA 200.8
7439-95-4	Magnesium	3800		ug/L	250	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7439-96-5	Manganese	190		ug/L	5.0	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-09-7	Potassium	4100		ug/L	1000	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7782-49-2	Selenium	2.0		ug/L	2.0	11/03/11 10:50	11/09/11 18:30	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-23-5	Sodium	19000		ug/L	1000	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-24-6	Strontium	87	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:30	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-32-6	Titanium	68		ug/L	5.0	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-62-2	Vanadium	9.3		ug/L	5.0	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-65-5	Yttrium	9.1		ug/L	3.0	11/03/11 10:45	11/09/11 17:30	EPA 200.7
7440-66-6	Zinc	66		ug/L	10	11/03/11 10:45	11/09/11 17:30	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW12SR-1011

Lab ID: E114404-06

Station ID: MW12S

Matrix: Groundwater

Date Collected: 10/25/11 17:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	400		ug/L	100	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:35	EPA 200.8
7440-38-2	Arsenic	1.3	U, B-2	ug/L	1.3	11/03/11 10:50	11/09/11 18:35	EPA 200.8
7440-39-3	Barium	79		ug/L	5.0	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	11/03/11 10:50	11/09/11 18:35	EPA 200.8
7440-70-2	Calcium	12000		ug/L	250	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-47-3	Chromium	5.7		ug/L	5.0	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7439-89-6	Iron	590		ug/L	100	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7439-92-1	Lead	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:35	EPA 200.8
7439-95-4	Magnesium	3400		ug/L	250	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7439-96-5	Manganese	21		ug/L	5.0	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-09-7	Potassium	3800		ug/L	1000	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7782-49-2	Selenium	2.1		ug/L	2.0	11/03/11 10:50	11/09/11 18:35	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-23-5	Sodium	18000		ug/L	1000	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-24-6	Strontium	82	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:35	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-32-6	Titanium	6.2		ug/L	5.0	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 17:36	EPA 200.7
7440-66-6	Zinc	34		ug/L	10	11/03/11 10:45	11/09/11 17:36	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW11-1011

Lab ID: E114404-07

Station ID: MW11

Matrix: Groundwater

Date Collected: 10/25/11 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	420		ug/L	100	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:39	EPA 200.8
7440-38-2	Arsenic	1.3	U, B-2	ug/L	1.3	11/03/11 10:50	11/09/11 18:39	EPA 200.8
7440-39-3	Barium	40		ug/L	5.0	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-43-9	Cadmium	1.7		ug/L	0.50	11/03/11 10:50	11/09/11 18:39	EPA 200.8
7440-70-2	Calcium	5800		ug/L	250	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-47-3	Chromium	110		ug/L	5.0	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-50-8	Copper	10		ug/L	10	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7439-89-6	Iron	1000		ug/L	100	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7439-92-1	Lead	1.7		ug/L	1.0	11/03/11 10:50	11/09/11 18:39	EPA 200.8
7439-95-4	Magnesium	540		ug/L	250	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7439-96-5	Manganese	22		ug/L	5.0	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-02-0	Nickel	31		ug/L	10	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-09-7	Potassium	1800		ug/L	1000	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	11/03/11 10:50	11/09/11 18:39	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-23-5	Sodium	5000		ug/L	1000	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-24-6	Strontium	51	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:39	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-32-6	Titanium	9.6		ug/L	5.0	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 17:41	EPA 200.7
7440-66-6	Zinc	94		ug/L	10	11/03/11 10:45	11/09/11 17:41	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW1S-1011

Lab ID: E114404-08

Station ID: MW1S

Matrix: Groundwater

Date Collected: 10/25/11 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	13000		ug/L	100	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:44	EPA 200.8
7440-38-2	Arsenic	1.6		ug/L	1.3	11/03/11 10:50	11/09/11 18:44	EPA 200.8
7440-39-3	Barium	160		ug/L	5.0	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-43-9	Cadmium	14		ug/L	0.50	11/03/11 10:50	11/09/11 18:44	EPA 200.8
7440-70-2	Calcium	13000		ug/L	250	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-47-3	Chromium	920		ug/L	5.0	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-50-8	Copper	35		ug/L	10	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7439-89-6	Iron	12000		ug/L	100	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7439-92-1	Lead	6.8		ug/L	1.0	11/03/11 10:50	11/09/11 18:44	EPA 200.8
7439-95-4	Magnesium	8600		ug/L	250	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7439-96-5	Manganese	88		ug/L	5.0	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7439-98-7	Molybdenum	16		ug/L	5.0	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-02-0	Nickel	22		ug/L	10	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-09-7	Potassium	5700		ug/L	1000	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7782-49-2	Selenium	2.1		ug/L	2.0	11/03/11 10:50	11/09/11 18:44	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-23-5	Sodium	19000		ug/L	1000	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-24-6	Strontium	120	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:44	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-32-6	Titanium	150		ug/L	5.0	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-62-2	Vanadium	16		ug/L	5.0	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-65-5	Yttrium	18		ug/L	3.0	11/03/11 10:45	11/09/11 17:46	EPA 200.7
7440-66-6	Zinc	80		ug/L	10	11/03/11 10:45	11/09/11 17:46	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

**Sample ID: MW2S-1011**

**Lab ID: E114404-09**

**Station ID: MW2S**

**Matrix: Groundwater**

**Date Collected: 10/26/11 14:30**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	37000		ug/L	100	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:49	EPA 200.8
7440-38-2	Arsenic	3.9		ug/L	1.3	11/03/11 10:50	11/09/11 18:49	EPA 200.8
7440-39-3	Barium	210		ug/L	5.0	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-41-7	Beryllium	3.3		ug/L	3.0	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	11/03/11 10:50	11/09/11 18:49	EPA 200.8
7440-70-2	Calcium	17000		ug/L	250	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-47-3	Chromium	47		ug/L	5.0	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-48-4	Cobalt	6.4		ug/L	5.0	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-50-8	Copper	11		ug/L	10	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7439-89-6	Iron	40000		ug/L	100	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7439-92-1	Lead	16		ug/L	1.0	11/03/11 10:50	11/09/11 18:49	EPA 200.8
7439-95-4	Magnesium	10000		ug/L	250	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7439-96-5	Manganese	610		ug/L	5.0	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-02-0	Nickel	19		ug/L	10	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-09-7	Potassium	8000		ug/L	1000	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7782-49-2	Selenium	2.6		ug/L	2.0	11/03/11 10:50	11/09/11 18:49	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-23-5	Sodium	24000		ug/L	1000	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-24-6	Strontium	130	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:49	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-32-6	Titanium	140		ug/L	5.0	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-62-2	Vanadium	52		ug/L	5.0	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-65-5	Yttrium	36		ug/L	3.0	11/03/11 10:45	11/09/11 17:51	EPA 200.7
7440-66-6	Zinc	84		ug/L	10	11/03/11 10:45	11/09/11 17:51	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW4S-1011

Lab ID: E114404-10

Station ID: MW4S

Matrix: Groundwater

Date Collected: 10/26/11 13:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7429-90-5	Aluminum	2500		ug/L	100	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:54	EPA 200.8
7440-38-2	Arsenic	1.3	U, B-2	ug/L	1.3	11/03/11 10:50	11/09/11 18:54	EPA 200.8
7440-39-3	Barium	590		ug/L	5.0	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	11/03/11 10:50	11/09/11 18:54	EPA 200.8
7440-70-2	Calcium	9800		ug/L	250	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-47-3	Chromium	14		ug/L	5.0	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7439-89-6	Iron	3400		ug/L	100	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7439-92-1	Lead	2.1		ug/L	1.0	11/03/11 10:50	11/09/11 18:54	EPA 200.8
7439-95-4	Magnesium	5100		ug/L	250	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7439-96-5	Manganese	38		ug/L	5.0	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-09-7	Potassium	12000		ug/L	1000	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7782-49-2	Selenium	4.4		ug/L	2.0	11/03/11 10:50	11/09/11 18:54	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-23-5	Sodium	43000		ug/L	1000	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-24-6	Strontium	73	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:54	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-32-6	Titanium	29		ug/L	5.0	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-65-5	Yttrium	3.5		ug/L	3.0	11/03/11 10:45	11/09/11 17:58	EPA 200.7
7440-66-6	Zinc	21		ug/L	10	11/03/11 10:45	11/09/11 17:58	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW4SD-1011

Lab ID: E114404-11

Station ID: MW4S

Matrix: Groundwater

Date Collected: 10/26/11 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	2800		ug/L	100	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:58	EPA 200.8
7440-38-2	Arsenic	1.3	U, B-2	ug/L	1.3	11/03/11 10:50	11/09/11 18:58	EPA 200.8
7440-39-3	Barium	630		ug/L	5.0	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	11/03/11 10:50	11/09/11 18:58	EPA 200.8
7440-70-2	Calcium	9700		ug/L	250	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-47-3	Chromium	14		ug/L	5.0	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7439-89-6	Iron	3800		ug/L	100	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7439-92-1	Lead	2.2		ug/L	1.0	11/03/11 10:50	11/09/11 18:58	EPA 200.8
7439-95-4	Magnesium	5200		ug/L	250	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7439-96-5	Manganese	40		ug/L	5.0	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-09-7	Potassium	12000		ug/L	1000	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7782-49-2	Selenium	4.1		ug/L	2.0	11/03/11 10:50	11/09/11 18:58	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-23-5	Sodium	43000		ug/L	1000	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-24-6	Strontium	74	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 18:58	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-32-6	Titanium	34		ug/L	5.0	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-65-5	Yttrium	3.8		ug/L	3.0	11/03/11 10:45	11/09/11 18:03	EPA 200.7
7440-66-6	Zinc	21		ug/L	10	11/03/11 10:45	11/09/11 18:03	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

Project: 12-0040, Capital City Plume

Sample ID: MW5I-1011

Lab ID: E114404-12

Station ID: MW5I

Matrix: Groundwater

Date Collected: 10/25/11 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	760		ug/L	100	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:13	EPA 200.8
7440-38-2	Arsenic	1.3	U, B-2	ug/L	1.3	11/03/11 10:50	11/09/11 19:13	EPA 200.8
7440-39-3	Barium	39		ug/L	5.0	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-43-9	Cadmium	2.1		ug/L	0.50	11/03/11 10:50	11/09/11 19:13	EPA 200.8
7440-70-2	Calcium	6900		ug/L	250	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-47-3	Chromium	44		ug/L	5.0	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-50-8	Copper	21		ug/L	10	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7439-89-6	Iron	1700		ug/L	100	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7439-92-1	Lead	2.8		ug/L	1.0	11/03/11 10:50	11/09/11 19:13	EPA 200.8
7439-95-4	Magnesium	1000		ug/L	250	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7439-96-5	Manganese	66		ug/L	5.0	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-02-0	Nickel	26		ug/L	10	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-09-7	Potassium	2200		ug/L	1000	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	11/03/11 10:50	11/09/11 19:13	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-23-5	Sodium	6000		ug/L	1000	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-24-6	Strontium	83	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:13	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-32-6	Titanium	19		ug/L	5.0	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 18:09	EPA 200.7
7440-66-6	Zinc	180		ug/L	10	11/03/11 10:45	11/09/11 18:09	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW7I-1011

Lab ID: E114404-13

Station ID: MW7I

Matrix: Groundwater

Date Collected: 10/25/11 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	120		ug/L	100	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:18	EPA 200.8
7440-38-2	Arsenic	1.3	U, B-2	ug/L	1.3	11/03/11 10:50	11/09/11 19:18	EPA 200.8
7440-39-3	Barium	83		ug/L	5.0	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	11/03/11 10:50	11/09/11 19:18	EPA 200.8
7440-70-2	Calcium	14000		ug/L	250	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-47-3	Chromium	29		ug/L	5.0	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7439-89-6	Iron	210		ug/L	100	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7439-92-1	Lead	1.8		ug/L	1.0	11/03/11 10:50	11/09/11 19:18	EPA 200.8
7439-95-4	Magnesium	2300		ug/L	250	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7439-96-5	Manganese	8.8		ug/L	5.0	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-09-7	Potassium	2800		ug/L	1000	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	11/03/11 10:50	11/09/11 19:18	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-23-5	Sodium	10000		ug/L	1000	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-24-6	Strontium	100	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:18	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-32-6	Titanium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 18:41	EPA 200.7
7440-66-6	Zinc	220		ug/L	10	11/03/11 10:45	11/09/11 18:41	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

Project: 12-0040, Capital City Plume

Sample ID: MW7S-1011

Lab ID: E114404-14

Station ID: MW7S

Matrix: Groundwater

Date Collected: 10/25/11 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100		ug/L	100	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:32	EPA 200.8
7440-38-2	Arsenic	1.3	U, B-2	ug/L	1.3	11/03/11 10:50	11/09/11 19:32	EPA 200.8
7440-39-3	Barium	18		ug/L	5.0	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	11/03/11 10:50	11/09/11 19:32	EPA 200.8
7440-70-2	Calcium	4100		ug/L	250	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-47-3	Chromium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7439-89-6	Iron	100	U	ug/L	100	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7439-92-1	Lead	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:32	EPA 200.8
7439-95-4	Magnesium	550		ug/L	250	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7439-96-5	Manganese	11		ug/L	5.0	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-09-7	Potassium	1700		ug/L	1000	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	11/03/11 10:50	11/09/11 19:32	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-23-5	Sodium	8700		ug/L	1000	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-24-6	Strontium	87	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:32	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-32-6	Titanium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 19:00	EPA 200.7
7440-66-6	Zinc	35		ug/L	10	11/03/11 10:45	11/09/11 19:00	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW8I-1011

Lab ID: E114404-15

Station ID: MW8I

Matrix: Groundwater

Date Collected: 10/25/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	840		ug/L	100	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:37	EPA 200.8
7440-38-2	Arsenic	1.9		ug/L	1.3	11/03/11 10:50	11/09/11 19:37	EPA 200.8
7440-39-3	Barium	26		ug/L	5.0	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	11/03/11 10:50	11/09/11 19:37	EPA 200.8
7440-70-2	Calcium	3900		ug/L	250	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-47-3	Chromium	36		ug/L	5.0	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-50-8	Copper	28		ug/L	10	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7439-89-6	Iron	1500		ug/L	100	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7439-92-1	Lead	2.2		ug/L	1.0	11/03/11 10:50	11/09/11 19:37	EPA 200.8
7439-95-4	Magnesium	440		ug/L	250	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7439-96-5	Manganese	82		ug/L	5.0	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-02-0	Nickel	22		ug/L	10	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-09-7	Potassium	1500		ug/L	1000	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	11/03/11 10:50	11/09/11 19:37	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-23-5	Sodium	4400		ug/L	1000	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-24-6	Strontium	44	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:37	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-32-6	Titanium	25		ug/L	5.0	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 19:05	EPA 200.7
7440-66-6	Zinc	91		ug/L	10	11/03/11 10:45	11/09/11 19:05	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW8S-1011

Lab ID: E114404-16

Station ID: MW8S

Matrix: Groundwater

Date Collected: 10/25/11 9:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	690		ug/L	100	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:42	EPA 200.8
7440-38-2	Arsenic	1.3	U, B-2	ug/L	1.3	11/03/11 10:50	11/09/11 19:42	EPA 200.8
7440-39-3	Barium	59		ug/L	5.0	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-43-9	Cadmium	0.53		ug/L	0.50	11/03/11 10:50	11/09/11 19:42	EPA 200.8
7440-70-2	Calcium	9200		ug/L	250	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-47-3	Chromium	6.8		ug/L	5.0	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7439-89-6	Iron	930		ug/L	100	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7439-92-1	Lead	1.0		ug/L	1.0	11/03/11 10:50	11/09/11 19:42	EPA 200.8
7439-95-4	Magnesium	3000		ug/L	250	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7439-96-5	Manganese	22		ug/L	5.0	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-09-7	Potassium	3600		ug/L	1000	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	11/03/11 10:50	11/09/11 19:42	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-23-5	Sodium	18000		ug/L	1000	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-24-6	Strontium	92	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:42	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-32-6	Titanium	11		ug/L	5.0	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 19:10	EPA 200.7
7440-66-6	Zinc	60		ug/L	10	11/03/11 10:45	11/09/11 19:10	EPA 200.7





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0040

Project: 12-0040, Capital City Plume - Reported by Roberta Howes

**Total Metals**

**Project: 12-0040, Capital City Plume**

Sample ID: MW9S-1011

Lab ID: E114404-17

Station ID: MW9S

Matrix: Groundwater

Date Collected: 10/26/11 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	2700		ug/L	100	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:46	EPA 200.8
7440-38-2	Arsenic	1.3	U, B-2	ug/L	1.3	11/03/11 10:50	11/09/11 19:46	EPA 200.8
7440-39-3	Barium	190		ug/L	5.0	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-43-9	Cadmium	19		ug/L	0.50	11/03/11 10:50	11/09/11 19:46	EPA 200.8
7440-70-2	Calcium	8700		ug/L	250	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-47-3	Chromium	34		ug/L	5.0	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-50-8	Copper	57		ug/L	10	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7439-89-6	Iron	3000		ug/L	100	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7439-92-1	Lead	3.8		ug/L	1.0	11/03/11 10:50	11/09/11 19:46	EPA 200.8
7439-95-4	Magnesium	4600		ug/L	250	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7439-96-5	Manganese	41		ug/L	5.0	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-02-0	Nickel	25		ug/L	10	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-09-7	Potassium	3300		ug/L	1000	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	11/03/11 10:50	11/09/11 19:46	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-23-5	Sodium	13000		ug/L	1000	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-24-6	Strontium	68	J, QC-5	ug/L	5.0	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	11/03/11 10:50	11/09/11 19:46	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-32-6	Titanium	34		ug/L	5.0	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-65-5	Yttrium	4.8		ug/L	3.0	11/03/11 10:45	11/09/11 19:15	EPA 200.7
7440-66-6	Zinc	140		ug/L	10	11/03/11 10:45	11/09/11 19:15	EPA 200.7

**End of Report**