



August 14, 2013

Mr. David Brownlee
Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King Jr. Drive, Suite 1462 East Tower
Atlanta, Georgia 30334

Subject: **Voluntary Remediation Plan Status Report No. 3**
Former Automatic Sprinkler Site, Swainsboro, Georgia
HSI Site No. 10268
AMEC Project 6125080149

Dear Mr. Brownlee:

AMEC Environment & Infrastructure, Inc. (AMEC) is pleased to provide Georgia Environmental Protection Division with the attached Status Report No.3 for Voluntary Remediation Program activities for the Former Automatic Sprinkler Site in Swainsboro, Emanuel County, Georgia (HSI Site No. 10268). The report covers the activities conducted between February and August 2013.

Should you have any questions, please contact us at (770) 421-3400.

Sincerely,

AMEC Environment & Infrastructure, Inc.


Robert P. Rogero, P.G.
Senior Geologist


Gregory J. Wrenn, P.E.
Associate/Project Manager

GJW:dp

Attachment: VRP Status Report No. 3

cc: Stuart Rixman, Tyco International
Anita Bucci, Kongsberg Automotive
Jack Bareford, Swainsboro Emanuel County Joint Development Authority

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VOLUNTARY REMEDIATION PROGRAM STATUS REPORT NO. 3

**Former Automatic Sprinkler Site
162 East Meadowlake Parkway
Swainsboro, Emanuel County, Georgia
HSI Site No. 10268**

Submitted to:

Georgia Department of Natural Resources
Environmental Protection Division
Hazardous Site Response and Remediation Branch
Suite 1462, East Tower
2 Martin Luther King Jr. Drive, SE
Atlanta Georgia 30334

Submitted by:

**Scott Technologies, Inc.
9 Roszel Road
Princeton, New Jersey 08540**

Prepared by:

**AMEC Environment & Infrastructure, Inc.
1075 Big Shanty Road
Kennesaw, Georgia 30144**

August 14, 2013

AMEC Project No. 6125-08-0149

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1.0 PE CERTIFICATION

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

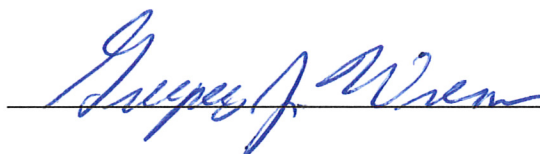
The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Gregory J. Wrenn/ Georgia P.E. #25565

August 13, 2013

Printed Name and GA PE Number

Date



Signature and Stamp



2.0 INTRODUCTION AND BACKGROUND

This Voluntary Remediation Program Semi-Annual Status Report No. 3 (Status Report) was prepared in accordance with the Voluntary Remediation Program (VRP) for the Scott Technologies site, Hazardous Site Inventory (HSI) No.10268. The Georgia Environmental Protection Division (EPD) letter, dated February 24, 2012, accepted the site into the VRP and requested submittal of semi-annual VRP status reports. This third Status Report covers the activities conducted subsequent to Semi-Annual Status Report No. 2 submitted to the EPD in February 2013.

The site is located at 162 East Meadowlake Parkway, Swainsboro, Georgia. Figure 1 shows the site location. Figure 2 presents the site layout, existing monitoring well locations, and previous surface water sampling locations. This 6.91-acre property is part of a larger industrial development located southeast of the center of Swainsboro. East Meadowlake Parkway forms the northern boundary of the site. Approximately 47 acres of undeveloped land are located north of the site and East Meadowlake Parkway. A publicly owned wastewater treatment plant is located to the northwest. A manufacturing facility occupies property to the east. Space Place road and another industrial facility (Space Place) are located to the south.

Before 1967, the property was agricultural or lightly wooded land. The property was initially developed by Automatic Sprinkler Corporation of America (ASCOA), a subsidiary of Figgie International, Inc. Figgie International changed its name to Scott Technologies, Inc. (STI). STI Properties, Inc. is an affiliate of Scott Technologies, Inc. and is responsible for their real estate operations. In 2001, Tyco Fire Protection Products acquired STI, but STI is the legal entity responsible for addressing the environmental issues related to operations of the former ASCOA site. The operation at 162 East Meadowlake Parkway reportedly began in 1967 and continued until approximately 1992. In 1994, the property ownership was transferred to the Swainsboro-Emanuel County Joint Development Authority. The Swainsboro-Emanuel County Joint Development Authority currently owns the property and leases the facility to Kongsberg Automotive. Kongsberg Automotive manufactures engine parts at the facility.

Early environmental investigations (1997 through 2000) were focused on metal (lead and zinc) impacts to soils. Soils with lead and zinc impacts were excavated and disposed of properly. Confirmation sampling indicated that the formerly metal-impacted areas complied with Type 3 Risk Reduction Standards (RRS). However, during the course of the investigations, volatile organic compounds (VOCs) were detected in the subsurface. The VOC impacts have been the primary focus of the recent environmental work at the site. An updated summary of applicable RRS is included as Table 1. The environmental history of the site is summarized as follows:

- The site was used for manufacturing fire control components from 1967 to 1992.
- The site was listed on the Georgia Hazardous Site Inventory (HSI) in June 1994.
- Figgie Properties conveyed the property to the Swainsboro-Emmanuel County Joint Development Authority in November 1994.

- A Consent Order for assessment/remediation of the site under the Georgia Hazardous Site Response Act (HSRA) was executed between Georgia EPD and Figgie Properties in October 1997.
- Assessment and remediation activities were conducted between 1998 and 2002, including the removal of metal-impacted soil, and two short-term multi-phase extraction events, which removed volatile organic compounds (VOCs) in soil vapor and groundwater from a small isolated “hot spot” around MW-8.
- A Corrective Action Plan (CAP) containing contaminant transport modeling and proposing to address VOC-impacted groundwater via monitored natural attenuation (MNA) was submitted to EPD in December 2002. BIOCHLOR (an EPA model for predicting potential chlorinated VOC concentrations over time and distance) was used to evaluate the fate and transport of VOCs in groundwater. The U.S. Environmental Protection Agency (EPA) MNA Screening Matrix screening score indicated “strong evidence for natural anaerobic biodegradation of chlorinated constituents.”
- EPD approved MNA as a potentially appropriate corrective action in August 2003 and requested continued MNA monitoring to evaluate trends in contaminant concentrations.
- MNA demonstration monitoring was conducted between 2003 and 2010.
- In February 2011, based upon the predicted 74-year remedial period, the HSRA program requested evaluation of corrective action enhancements to reduce the clean-up time.
- In April 2011, STI submitted the VRP Application in order to enroll in the Georgia Voluntary Remediation Program. An EPD comment letter dated September 8, 2011 requesting additional information resulted in a VRP Application Addendum submitted by STI on November 14, 2011. EPD letters dated February 24, 2012 accepted STI into the VRP and put forth comments to be addressed during implementation of the VRP.
- VRP Status Report No. 1 and responses to EPD comments (February 24, 2012) were submitted to EPD on August 23, 2012.
- EPD issued comments on the VRP Status Report No. 1 in correspondence dated December 27, 2012.
- VRP Status Report No. 2 and responses to EPD comments (December 27, 2012) were submitted to EPD on February 20, 2013.
- EPD issued comments on the VRP Status Report No. 2 in correspondence dated April 9, 2013.

3.0 WORK PERFORMED DURING REPORTING PERIOD

The activities currently identified to be conducted at the STI site under the VRP are outlined in the VRP Application and VRP Application Addendum, dated April 29, 2011, and November 14, 2011, respectively, and the EPD VRP approval and comment letters dated February 24, 2012. A groundwater and surface water sampling event was conducted at the site in June 2013. An additional voluntary remediation activity (not specified in the VRP Application or VRP Application Addendum), a high vacuum extraction (HVE) event, was conducted during this reporting period to address the area of higher VOC concentrations in the area of monitoring wells MW-8 and MW-19. Furthermore, as requested in EPD's comment letter dated April 9, 2013, additional sampling was conducted to evaluate the oily substance observed in monitoring well MW-10 during the December 2012 sampling event. These activities are described herein.

3.1 Financial Assurance Update

Documentation of financial assurance for implementation of the VRP at the site was submitted to EPD on May 30, 2012. The financial assurance mechanism is an irrevocable letter of credit for \$525,000, which is well in excess of the \$190,000 estimated cost to implement the VRP submitted in the VRP Application Addendum. The letter of credit automatically renewed on March 25, 2013. Based upon the current site data, the financial assurance appears sufficient for completion of the VRP implementation at the site.

3.2 High Vacuum Extraction Event

Between April 30 and May 1, 2013, a 24-hour HVE event was conducted at the site using monitoring wells MW-8 and MW-19 as extraction wells. The HVE event was conducted by A&D Environmental, Inc. with AMEC oversight. The extraction was conducted with drop tubes initially set approximately 2-3 feet into water under an applied vacuum of 18 inches of mercury at each well to extract vapors and entrained liquids. The drop tubes were lowered as the water level dropped during the event to maintain fluid recovery and to induce a cone of depression, thus increasing the zone of influence. The fluid level in MW-8 drew down approximately 4 feet, and the fluid level in MW-19 drew down approximately 12 feet during the event. Water levels in surrounding monitoring wells dropped by 0.14 feet (MW-18), 0.1 feet (MW-3), and 0.05 feet (MW-20) over the course of the event. Vacuum influence was not observed in the surrounding monitoring wells. A total of approximately 1,600 gallons of fluid were recovered during the event.

The extracted water was pumped from the vacuum truck tank through an air stripper for treatment, temporarily stored in an on-site tanker truck, sampled, and transported to the Swainsboro publicly owned treatment works (POTW) on May 2, 2013 for disposal following confirmation of treatment to prescribed limits. A sample of the extracted and stripped water was collected and submitted to TestAmerica Laboratory in Savannah, Georgia for 24-hour turn-around time for VOCs by EPA method 8260B. The HVE extracted water was reported at below the detection limit for the constituents of concern for the site. The laboratory results for the air

stripper discharge sample are included in Appendix A. Documentation of permission to discharge the treated groundwater to the POTW is included in Appendix B.

3.3 Groundwater and Surface Water Sampling

Groundwater and surface water sampling was conducted on June 5-7, 2013. Prior to collecting groundwater samples, the depth to water was measured in the site monitoring wells. The depth to water measurements and corresponding groundwater elevations for this gauging event, as well as historical data dating back to 2008, are summarized on Table 2. The June 2013 groundwater elevations in the shallow zone averaged approximately 0.5 foot higher in elevation than those measured during the December 2012 sampling event. The measured groundwater elevations in the wells screened in the deep zone were between 0.13 feet lower (MW-1D) and 0.69 feet higher (MW-20D) in comparison to their elevations measured in December 2012. Shallow zone potentiometric surface maps for February 2013 and December 2012 are presented as Figures 3a and 3b, respectively. The shallow zone potentiometric surface maps continue to show groundwater flow generally to be northeast, which is consistent with historical data. Deep zone potentiometric surface maps for June 2013 and December 2012 are presented as Figures 4a and 4b, respectively. Groundwater flow in the deep zone is generally to the east, and is consistent with historical data.

Water samples were collected from select monitoring wells and surface water sampling locations on June 5-7, 2012. Groundwater samples were collected from shallow zone monitoring wells MW-4, MW-5, MW-6, MW-7, MW-8, MW-9/9R, MW-10, MW-11, MW-12, MW-15, MW-18, MW-19, MW-20, and MW-21. A groundwater sample was also collected from deep zone monitoring well MW-20D.

Low flow/low stress purging methodology employing a peristaltic pump was used to purge and sample the monitoring wells in general accordance with USEPA Region 4 Science and Ecosystem Support Division (SESD) Groundwater Sampling Procedure SESDPROC-301-R2 (October 2011). The samples were collected using a peristaltic pump by means of the “soda-straw” method as described in SESD 4.3.1.2.7. The groundwater samples were analyzed for site-specific VOCs using USEPA Method 8260B, except that MW-10 was analyzed for the full suite of EPA Method 8260B VOCs because of the presence of the oily substance. Appendix A contains the laboratory analytical reports for groundwater and surface water samples. Appendix C contains copies of groundwater sampling logs.

The analytical results for the June 2013 groundwater-sampling event are summarized on Table 3, along with historical analytical results. Constituent concentrations were similar to prior results, with generally stable or decreasing trends. Monitoring well MW-19, which was used as an extraction point in the HVE event, showed a decrease in the TCE concentration in comparison to the two prior sampling events, but increases in concentrations of chloroethane, 1,1-DCA, cis-1,2-DCE, and vinyl chloride. The increasing concentrations in MW-19 may be attributable to a combination of continued degradation of TCE and the various ethane’s present in the groundwater and drawing contaminants toward the well during the HVE event. Figure 5 shows the results of the June 2013 event and the interpreted extent of VOCs in groundwater.

The low-level VOCs historically observed in monitoring wells MW-6, MW-15, and MW-20 were not reported above their method detection limits in the June 2013 sampling event, indicating an overall decrease in the extent of VOC-impacted groundwater. No VOCs were reported above their method detection limits in monitoring well MW-20D during the June 2013 sampling event, thus indicating vertical delineation. Trend graphs (Appendix D) were prepared for wells with groundwater constituent concentrations exceeding the calculated RRS. VOCs were not detected in off-site monitoring wells. The laboratory analytical report is provided in Appendix A.

Surface water samples SW-5 and SW-6 were collected from the unnamed tributary of Hughes Prong (which serves as the nearest discharge boundary for shallow groundwater) as well as the drainage ditch along the eastern property boundary. This unnamed tributary is approximately 530 feet down-gradient of MW-8. Surface water samples SW-2 and SW-4 were collected from the drainage ditch downgradient of the culvert that flows beneath Meadowlake Parkway, but prior to the point where the ditch discharges to the unnamed tributary of Hughes Prong. The surface water sample locations are shown on Figure 6. It is thought that these locations are more representative of groundwater to surface water discharge than surface water samples collected from the low-lying area immediately east of the site, which does not have a clearly defined channel and is more likely a groundwater recharge area. The surface water samples were analyzed for site-specific VOCs using USEPA Method 8260B. The groundwater and surface water samples were packaged in ice and transported by AMEC personnel under chain-of-custody protocol to the laboratory, Analytical Environmental Services (AES) in Atlanta, Georgia. The laboratory analytical report is provided in Appendix A.

As shown on Table 4, all surface water sample results from the June 2013 sampling event were below the detection limits for all analyzed constituents. This is consistent with past results. The analytical results for surface water samples are summarized on Figure 6.

3.4 Evaluation of Oily Substance in MW-10

The sampling of MW-10, which is not part of the routine sampling under the VRP, was added during the June 2013 sampling event to further evaluate the presence of an unknown pale yellow oily substance detected during fluid level gauging in December 2012. MW-10 was gauged and bailed on April 29, 2013 during the HVE event, but no evidence of the oily substance was observed or measured at that time. During the June 2013 sampling event, MW-10 was again gauged and a light non-aqueous phase liquid (LNAPL) thickness of approximately 0.03 feet was present. Prior to sampling groundwater from MW-10, several attempts were made to collect the LNAPL by “sipping” with the peristaltic pump and by skimming with a bailer, but only 4-5 milliliter (ml) of the substance was recovered. No recharge of the substance was measured or observed after the well was allowed to recover overnight. Groundwater from MW-10 was submitted for analysis for the full suite of VOCs under USEPA Method 8260B. The analytical results for groundwater collected from MW-10 during the June 2013 sampling event were below the method detection limit for all constituents.

4.0 GROUNDWATER MODELING UPDATE

The groundwater fate and transport BIOCHLOR model was not updated as part of this Status Report. In the three primary monitoring wells used for model calibration (MW-8, MW-15, and MW-20), VOC concentrations were not detected in down-gradient wells MW-15 and MW-20, and source area well MW-8 showed substantial decreases in comparison to the previous event. The effect of the HVE event may have disrupted the previously observed concentration trends. The need for updated modeling will be evaluated following receipt of the results from the next monitoring event.

5.0 CONCLUSIONS

The June 2013 groundwater flow direction is consistent with previous data. No VOC impacts were detected in the deeper zone, no surface water impacts were detected, and the shallow groundwater VOC plume appears to be generally degrading and shrinking. The land surrounding the site is industrial or undeveloped and is supplied with public water. Therefore, no complete pathways for exposure to contaminants are present. Vapor intrusion modeling does not indicate that the VOCs in groundwater pose a risk to on-site structures. The data does not suggest that revisions to the conceptual site model are necessary.

Further evaluation of the oily substance present in MW-10 in December 2012 included analyzing the groundwater from MW-10 for VOCs by USEPA method 8260B. No VOCs were reported in the sample of groundwater, thus indicating that it is not related to the chlorinated solvent release being addressed by STI. The oily substance was not present in April 2013, was only present at a thickness of 0.03 feet in June 2013, and did not recharge after bailing. The presence of the oily substance will continue to be evaluated.

The groundwater analytical data continues to support MNA as an appropriate corrective action for the site. The BIOCHLOR predictions do not indicate that contaminants will affect the nearest point of exposure (POE), the unnamed tributary of Hughes Prong. Furthermore, it appears unlikely that groundwater contaminant concentration above applicable standards will be detected beyond the down-gradient property boundary. The previous BIOCHLOR predictions indicate an estimated cleanup timeframe of approximately 74 years before MNA will reduce on-site concentrations to drinking water levels. Therefore, a Uniform Environmental Covenant (UEC) will be executed to prohibit the use of groundwater. Further data is required to evaluate the migration of impacted groundwater and to determine if any other adjacent properties need to be included in the covenant. It is anticipated that the UEC will be in place by the end of the 5-year VRP evaluation period. The supplemental HVE event may help to accelerate the cleanup timeframe, and its effectiveness will continue to be evaluated, as well as the need for other supplemental remediation activities. The next groundwater sampling event will be conducted in late November or early December 2013 with the next VRP status report scheduled for submittal by February 24, 2014.

6.0 PROFESSIONAL HOURS SERVICES THIS PERIOD

AMEC Environment & Infrastructure, Inc. has provided 235.3 professional service hours for VRP implementation from February 16, 2013 to July 19, 2013. The registered professional engineer responsible for implementation of the VRP at this site is Mr. Gregory Wrenn. Mr. Wrenn has personally charged 23.5 labor hours to the project to direct and review the various aspects of implementation of the VRP during this reporting period. Table 5 shows a monthly summary of hours invoiced and a description of services for this reporting period.

TABLES

Table 1
Summary of Delineation Criteria and Cleanup Standards

Soil Constituents	Delineation Criteria	Type 3 Surface Soil Cleanup Value	Type 3 Subsurface Soil Cleanup Value	RRS Data Source
	mg/kg	mg/kg	mg/kg	
Arsenic	20	38	41	Type 3, Jan 2000 CAP
Barium	1000	1000	1000	Type 3, Jan 2000 CAP
Cadmium	2	39	39	Type 3, Jan 2000 CAP
Chromium	100	110	1200	Type 3, Jan 2000 CAP
Copper	100	1500	1500	Type 3, Jan 2000 CAP
Lead	75	400	400	{Revised per HSRA Rule Change}
Mercury	0.5	17	17	Type 3, Jan 2000 CAP
Nickel	50	420	420	Type 3, Jan 2000 CAP
Silver	2	10	10	Type 3, Jan 2000 CAP
Vanadium	100	100	100	Type 3, Jan 2000 CAP
Zinc	100	2800	2800	Type 3, Jan 2000 CAP
1,1,1-Trichloroethane	20	20	20	Type 3, VRP Appl Addendum, Appendix C
1,1,2,2-Tetrachloroethane	0.13	0.5	0.5	Type 3, VRP Appl Addendum, Appendix C
1,1,2-Trichloroethane	0.5	0.5	0.5	Type 3, VRP Appl Addendum, Appendix C
1,1-Dichloroethene	0.7	0.7	0.7	Type 3, VRP Appl Addendum, Appendix C
1,2-Dichloroethane	0.5	0.5	0.5	Type 3, VRP Appl Addendum, Appendix C
cis-1,2-Dichloroethene	7	7	7	Type 3, VRP Appl Addendum, Appendix C
Trichloroethene	0.5	0.5	0.5	Type 3, VRP Appl Addendum, Appendix C
Vinyl Chloride	0.2	0.2	0.2	Type 3, VRP Appl Addendum, Appendix C
Groundwater Constituents	mg/L	Groundwater Cleanup Value mg/L		
Cadmium	0.005	0.005		Type 3, Jan 2000 CAP
Chromium	0.1	0.1		Type 3, Jan 2000 CAP
Copper	1.3	1.3		Type 3, Jan 2000 CAP
Lead	0.015	0.015		Type 3, Jan 2000 CAP
Zinc	2	2		Type 3, Jan 2000 CAP
Mercury	0.002	0.002		Type 3, Jan 2000 CAP
1,1,1-Trichloroethane	0.2	13		Type 4, VRP Appl Addendum, Appendix C
1,1,2,2-Tetrachloroethane	0.001	0.005		Type 3 {Reporting Limit}, VRP Addendum, Appendix C
1,1,2-Trichloroethane	0.005	0.005		Type 3, VRP Appl Addendum, Appendix C
1,1-Dichloroethene	0.007	0.52		Type 4, VRP Appl Addendum, Appendix C
1,2-Dichloroethane	0.005	0.005		Type 3, VRP Appl Addendum, Appendix C
cis-1,2-Dichloroethene	0.07	0.2		Type 4, VRP Appl Addendum, Appendix C
Trichloroethene	0.005	0.0052		Type 4, VRP Appl Addendum, Appendix C
Vinyl Chloride	0.002	0.0033		Type 4, VRP Appl Addendum, Appendix C

mg/kg milligrams per kilogram
mg/L milligrams per liter

Revised by: LMS 7-26-12
Checked by: MKB 7-27-12

Table 2
Summary of Groundwater Elevations June 2008 Through June 2013

Well ID	TOC Elevation (FT MSL)	Depth to Water 6/4/2008 (FT BTOC)	Groundwater Elevation 6/4/2008 (FT MSL)	Depth to Water 4/14/2009 (FT BTOC)	Groundwater Elevation 4/14/2009 (FT MSL)	Depth to Water 9/17/2009 (FT BTOC)	Groundwater Elevation 9/17/2009 (FT MSL)	Depth to Water 11/30/2009 (FT BTOC)	Groundwater Elevation 11/30/2009 (FT MSL)	Depth to Water 5/17/2010 (FT BTOC)	Groundwater Elevation 5/17/2010 (FT MSL)	Depth to Water 11/18/2010 (FT BTOC)	Groundwater Elevation 11/18/2010 (FT MSL)	Depth to Water 5/30/2012 (FT BTOC)	Groundwater Elevation 5/30/2012 (FT MSL)	Depth to Water 12/13/2012 (FT BTOC)	Groundwater Elevation 12/13/2012 (FT MSL)	Depth to Water 6/5/2013 (FT BTOC)	Groundwater Elevation 6/5/2013 (FT MSL)
Shallow Aquifer																			
MW-1	292.71	NM	NM	6.49	286.22	10.68	282.03	9.62	283.09	9.21	283.50	11.56	281.15	NM	NM	12.63	280.08	9.74	282.97
MW-2	285.70	6.11	279.59	4.64	281.06	5.53	280.17	4.90	280.80	4.93	280.77	6.29	279.41	5.14	280.56	6.14	279.56	5.83	279.87
MW-3	281.17	3.30	277.87	1.86	279.31	2.70	278.47	2.35	278.82	2.31	278.86	3.58	277.59	2.31	278.86	3.03	278.14	2.98	278.19
MW-4	281.84	2.40	279.44	0.92	280.92	1.87	279.97	1.50	280.34	1.61	280.23	2.81	279.03	1.71	280.13	3.11	278.73	2.25	279.59
MW-5	286.71	6.57	280.14	4.00 ¹	282.71	6.22	280.49	6.29	280.42	6.18	280.53	7.86	278.85	*6.65	280.06	8.42	278.29	6.49	280.22
MW-6	281.00	4.51	276.49	2.52	278.48	4.34	276.66	3.85	277.15	3.68	277.32	5.04	275.96	4.40	276.60	5.32	275.68	4.16	276.84
MW-7	281.33	4.19	277.14	2.56	278.77	3.48	277.85	2.99	278.34	2.83	278.50	4.21	277.12	2.71	278.62	3.33	278.00	3.50	277.83
MW-8	281.28	3.69	277.59	1.82	279.46	3.24	278.04	2.73	278.55	2.64	278.64	3.96	277.32	2.13	279.15	3.20	278.08	3.36	277.92
MW-9R	278.31	3.70	274.61	1.74	276.57	3.41	274.90	3.00	275.31	2.25	276.06	4.40	273.91	2.51	275.80	3.16	275.15	3.00	275.31
MW-10	289.37	6.89	282.48	2.54	286.83	6.17	283.20	5.42	283.95	5.30	284.07	7.76	281.61	4.28	285.09	7.15	282.22	6.47	282.90
MW-11	281.77	4.50	277.27	3.11	278.66	4.06	277.71	3.58	278.19	3.39	278.38	4.75	277.02	3.27	278.50	3.93	277.84	4.10	277.67
MW-12	288.04	4.62	283.42	0.97	287.07	4.34	283.70	3.50	284.54	3.57	284.47	5.94	282.10	2.85	285.19	5.04	283.00	4.71	283.33
MW-15	280.22	6.87	273.35	6.04	274.18	6.63	273.59	6.36	273.86	6.30	273.92	7.12	273.10	6.47	273.75	7.05	273.17	6.59	273.63
MW-18	281.27	NI	NI	NI	NI	3.55	277.72	2.64	278.63	2.87	278.40	4.16	277.11	2.64	278.63	3.43	277.84	3.17	278.10
MW-19	281.80	NI	NI	NI	NI	4.13	277.67	3.23	278.57	3.00	278.80	2.81	278.99	*3.27	278.53	3.64	278.16	3.83	277.97
MW-20	282.99	NI	NI	NI	NI	5.15	277.84	4.77	278.22	4.53	278.46	5.78	277.21	4.45	278.54	5.24	277.75	5.18	277.81
MW-21	284.12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	*4.96	279.16	5.44	278.68	5.46	278.66
Deep Aquifer																			
MW-1D	282.95	8.34	274.61	7.14	275.81	7.55	275.40	7.35	275.60	7.53	275.42	7.71	275.24	7.91	275.04	8.04	274.91	8.17	274.78
MW-2D	280.01	8.70	271.31	7.50	272.51	8.02	271.99	7.96	272.05	8.11	271.90	8.26	271.75	8.47	271.54	8.74	271.27	8.83	271.18
MW-16D	279.91	6.30	273.61	4.70	275.21	5.66	274.25	5.93	273.98	5.85	274.06	5.45	274.46	6.32	273.59	6.54	273.37	5.85	274.06
MW-20D	281.21	NI	NI	NI	NI	6.59	274.62	6.08	275.13	7.35	273.86	6.79	274.42	7.57	273.64	7.19	274.02	7.31	273.90

Notes:

BTOC: Below top of casing

FT MSL: Feet mean sea level

NM: not measured - MW-1 appears to have been covered by the installation of a driveway

NI = Not Installed

¹ Water level measurement collected on 4/15/2009

* Water level measurements collected on 5/31/2012

Prepared by: RPR 06/10/13

Checked by: GJW 08/01/13

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

Sample Location		MW-3														
Date Sampled	TYPE 3/4 RRS mg/L	Jul-98	Dec-00	Dec-03	May-04	Nov-04	May-05	Jun-06	Dec-06	May-07	Jun-08	Apr-09	Dec-09	Dec-09	May-10	Nov-10
VOCs (mg/L)																
Chloroethane	---	0.015	<0.010	0.0096	0.0034	0.0038	0.0028	0.0013	0.0011	0.0018	<0.001	0.0014	0.0011	<0.001	0.002	0.0009 J
1,1,2,2-Tetrachloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	13	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	0.0052	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.52	0.006	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	---	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.2	ND	<0.005	<0.001	<0.001	<0.001	0.0014	<0.001	0.00091 J	<0.001	0.00094 J	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	---	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	0.0033	0.140	0.052	0.022	0.024	0.027	0.027	0.014	0.020	0.021	0.0173	0.0168	0.0094	0.0093	0.0172	0.0104
SVOCs (mg/L)																
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters																
pH (std. Units)	---	NA	5.94	5.7	5.64	5.51	5.28	5.37	5.63	5.57	5.54	5.85	6.04	6.04	5.7	6.21
Specific Conductance (mS/cm)	---	NA	0.14	0.19	0.197	0.222	0.212	0.208	0.199	0.263	0.222	0.239	0.421	0.421	0.278	0.255
Temperature (deg. C)	---	NA	16.94	19.3	19.94	21.48	22.53	24.65	21.99	24.24	26.59	19.17	20.45	20.45	22.38	22.98
Dissolved Oxygen (mg/L)	---	NA	0.00	0.48	0.34	0.78	0.62	0.40	0.43	0.42	0.50	0.34	0.27	0.27	0.23	0.48
ORP (mV)	---	NA	-13.00	-17.6	-29.7	12.9	53.5	87.9	30.3	0.4	-35.3	-10.8	-60.1	-60.1	-7.2	-72.3
Turbidity (NTU)	---	NA	6.40	45	24.1	12.8	13.7	5	1.6	8.5	4.1	4	32.2	32.2	67.2	30.8
Iron II (mg/L)	---	NA	4.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Geochemical Natural Attenuation																
Parameters (mg/L)																
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	13.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	4.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	74.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	NA	0.001	0.0012	0.00081	0.0014	0.0013	0.0012	0.00084	0.000890	0.001300	0.000450	0.000210	0.000660	0.0004 J	0.00039
Ethane	---	NA	<0.000005	0.000009	0.000014	0.000065	0.000130	0.000052	0.000033	0.000050	0.000180	0.000021	<0.00001	0.000140	0.000009 J	0.000018
Methane	---	NA	9.10	7.6	7.7	9.4	7.2	9.2	8.3	6.7	8.2	7.4	5.8	13.0	4.2 J	7.6
Hydrogen (nmol/L)	---	NA	<0.030	2.7	3.9	1.6	1.4	3.0	27.0	1.7	2.2	1.1	1.5	NA	2.0	1.2

Notes:

Bold concentrations exceed Risk Reduction Standards

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

August 2013

Sample Location		MW-4																
Date Sampled	TYPE 3/4 RRS mg/L	Jul-98	Dec-00	Dec-03	May-04	Nov-04	May-05	Jun-06	Dec-06	May-07	Jun-08	Apr-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13
VOCs (mg/L)																		
Chloroethane	---	0.029	0.022	0.040	0.0024	0.021	0.0045	0.003	0.0029	0.0034	0.0029	<0.001	0.0014	0.0016	0.0013	<0.01	<0.01	<0.01
1,1,2,2-Tetrachloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	13	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Trichloroethylene	0.0052	ND	<0.005	<0.001	<0.001	<0.001	0.0016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1-Dichloroethene	0.52	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1-Dichloroethane	---	0.018	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
cis-1,2-Dichloroethene	0.2	ND	<0.005	<0.001	<0.001	<0.001	0.0021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene	---	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Vinyl Chloride	0.0033	0.300	0.093	0.058	0.018	0.045	0.037	0.031	0.040	0.042	0.034	0.0047	0.022	0.0288	0.0241	0.028	0.024	0.0031
SVOCs (mg/L)																		
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters																		
pH (std. Units)	---	NA	6.37	6.24	6.12	6.16	6.13	6.18	6.18	6.12	5.54	6.73	6.65	5.89	5.97	6.18	6.16	6.3
Specific Conductance (mS/cm)	---	NA	0.21	0.33	0.183	0.376	0.452	0.437	0.391	0.474	0.422	0.237	0.402	0.401	0.349	0.447	0.416	0.156
Temperature (deg. C)	---	NA	17.91	18.22	21	20.3	24.86	25.03	20.35	23.66	25.95	18.54	21.78	24.8	23.35	25.46	18.26	23.47
Dissolved Oxygen (mg/L)	---	NA	0.00	0.24	0.12	0.76	0.57	0.32	0.39	1.19	0.53	1.23	0.28	0.27	0.80	0.30	0.96	1.52
ORP (mV)	---	NA	-32.00	-43.1	-110	-59.9	-49.5	-37.1	-214.8	-71.8	-36.2	-39.6	-82.9	-33.5	-325.1	-56.6	-18.4	-3.8
Turbidity (NTU)	---	NA	5.40	12.5	8	10.0	0.0	4.5	6.5	2.3	2.2	6.0	16.2	-3.2	14.2	3.0	9.1	8.3
Iron II (mg/L)	---	NA	7.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Geochemical Natural Attenuation Parameters (mg/L)																		
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	9.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	4.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	4.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	120.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	NA	0.0026	0.0027	0.001	0.0019	0.0016	0.0019	0.0016	0.0014	0.0012	0.00012	0.00054	0.00074 J	0.00076	NA	<0.007	<0.007
Ethane	---	NA	<0.000005	<0.000005	<0.000005	<0.000005	<0.000001	<0.000001	<0.000001	<0.000001	0.000001	0.000004 J	<0.000001	0.000004	0.000008 J	NA	<0.009	<0.009
Methane	---	NA	8.10	8.3	5.6	5.0	7.4	9.5	7.9	9.7	11.0	0.68	5.9	7.9 J	4.5	NA	6.0	1.7
Hydrogen (nmol/L)	---	NA	0.16	2.6	2.7	1.2	7.7	3.8	2.0	2.7	4.8	3.0	25.0	2.6	2.7	NA	NA	NA

Notes:

Bold concentrations exceed Risk Reduction Standards

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

Sample Location		MW-5																
Date Sampled	TYPE 3/4 RRS mg/L	Oct-98	Dec-00	Dec-03	May-04	Nov-04	May-05	Jun-06	Dec-06	May-07	Jun-08	Apr-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13
VOCs (mg/L)																		
Chloroethane	---	ND	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010
1,1,2,2-Tetrachloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	13	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Trichloroethylene	0.0052	ND	<0.005	<0.001	0.001	<0.001	0.0022	0.0011	0.0020	0.0011	0.0013	0.0012	0.0011	<0.001	0.001	<0.005	<0.005	<0.005
1,1-Dichloroethene	0.52	0.008	0.015	0.015	0.013	0.011	0.011	0.0081	0.0098	0.0087	0.0074	0.0068	0.0071	0.0051	0.0045	0.0064	<0.005	<0.005
1,1-Dichloroethane	---	0.007	0.015	0.011	0.0096	0.0077	0.0075	0.0069	0.0065	0.0054	0.0053	0.0045	0.0046	0.0032	0.0028	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
cis-1,2-Dichloroethene	0.2	ND	<0.005	<0.001	<0.001	<0.001	0.0016	<0.001	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene	---	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Vinyl Chloride	0.0033	ND	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	0.00035 J	0.00033 J	0.00026 J	<0.001	0.0003 J	0.00088 J	<0.001	<0.002	<0.002	<0.002
SVOCs (mg/L)																		
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters																		
pH (std. Units)	---	NA	4.84	4.95	4.99	4.67	4.75	5.08	4.90	4.80	4.95	5.00	4.93	4.72	4.88	4.57	4.95	4.56
Specific Conductance (mS/cm)	---	NA	0.03	0.03	0.033	0.036	0.033	0.035	0.037	0.08	0.036	0.03	0.071	0.044	0.036	0.042	0.15	0.079
Temperature (deg. C)	---	NA	18.50	18.83	21.65	22.97	20.25	21.96	20.87	20.22	21.54	18.4	21.61	19.17	22.69	21.23	19.86	19.98
Dissolved Oxygen (mg/L)	---	NA	0.00	0.51	0.32	0.19	0.38	0.28	0.28	0.29	0.52	0.23	0.51	0.17	0.33	0.96	2.83	0.59
ORP (mV)	---	NA	210.00	234.10	133.2	130.9	200.8	135.1	171.5	175.1	-77.9	180	195.6	207.6	213.5	205.2	180.4	81.7
Turbidity (NTU)	---	NA	0.00	39.50	1.4	0.0	0	3.5	4.1	5.2	1.8	0.0	0.0	4.0	3.0	5.7	7.9	1.8
Iron II (mg/L)	---	NA	0.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Geochemical Natural Attenuation Parameters (mg/L)																		
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	3.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	1.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	3.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	NA	0.000016	0.000009	0.000011	0.000011	0.000009	0.000008	J 0.000006	J 0.000007	J 0.000012	0.000006 J	0.000065	0.000011	J 0.000007	J	NA	<0.007
Ethane	---	NA	<0.000005	<0.000005	0.000024	#####	0.000004	0.000002	J 0.000002	J 0.000005	J 0.000006	J 0.000004	0.000008 J	0.000015	J 0.000002	J	NA	<0.009
Methane	---	NA	0.52	0.63	0.56	0.83	0.57	0.51	0.4	0.28	0.24	0.2	0.27	0.21 J	0.048	NA	0.059	0.053
Hydrogen (nmol/L)	---	NA	<0.030	1.2	1.7	1.6	2.3	7.2	11	4	15	7.7	11.0	8.8	3.9	NA	NA	NA

Notes:

Bold concentrations exceed Risk Reduction Standards

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

Sample Location		MW-6																		
Date Sampled	TYPE 3/4 RRS mg/L	Oct-98	Dec-00	Dec-03	May-04	Nov-04	May-05	Jun-06	Dec-06	May-07	Jun-08	Apr-09	Sep-09	Dec-09	May-10	Nov-10	Nov-10	May-12	Dec-12	Jun-13
VOCs (mg/L)																				
Chloroethane	---	0.002	<0.010	0.014	0.0032	<0.001	0.0072	0.002	0.0016	0.0017	0.0013	<0.001	0.0017	0.001	<0.001	0.0012	0.0012	<0.01	<0.010	<0.010
1,1,2,2-Tetrachloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	13	ND	<0.005	<0.001	<0.001	0.0016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Trichloroethylene	0.0052	ND	<0.005	0.0036	<0.001	0.0079	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1-Dichloroethene	0.52	ND	<0.005	0.0022	<0.001	0.0048	0.0017	<0.001	<0.001	0.0010	<0.001	0.00060J	<0.001	<0.001	0.0014	<0.001	<0.001	<0.005	<0.005	<0.005
1,1-Dichloroethane	---	ND	<0.005	0.0011	0.0018	0.0021	0.0036	0.0014	0.0020	0.0028	0.0023	0.0016	0.0015	0.0013	0.002	0.0015	0.0015	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
cis-1,2-Dichloroethene	0.2	ND	<0.005	0.0018	<0.001	0.0045	0.0029	0.00090 J	0.0012	0.0014	0.0014	0.0010	0.0015	0.0012	0.0014	0.0016	0.0019	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene	---	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Vinyl Chloride	0.0033	0.010	<0.010	0.010	0.0096	0.0092	0.0094	0.0055	0.0051	0.0065	0.0052	0.0035	0.0054	0.0035	0.0028	0.0043	0.0044	0.0036	0.003	<0.002
SVOCs (mg/L)																				
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0211	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters																				
pH (std. Units)	---	NA	6.14	5.84	5.81	5.81	5.84	5.54	5.82	5.85	4.91	5.98	5.84	5.84	5.56	5.56	5.56	5.78	5.85	5.70
Specific Conductance (mS/cm)	---	NA	0.12	0.18	0.167	0.182	0.15	0.152	0.160	0.191	0.152	0.231	0.192	0.211	0.156	0.169	0.169	0.169	0.188	0.195
Temperature (deg. C)	---	NA	17.27	20.83	24.92	23.92	24.64	27.16	22.16	23.75	27.25	20.24	31.27	21.83	24.00	25.56	25.56	28.05	21.69	25.53
Dissolved Oxygen (mg/L)	---	NA	0.00	0.26	0.07	0.35	0.64	0.4	0.24	0.42	0.41	1.73	0.28	0.39	0.82	0.52	0.52	0.21	0.93	0.48
ORP (mV)	---	NA	-92.00	-11.6	-78.8	-22.0	-6.0	30.3	-216.5	-39.4	292.7	4.9	-12.7	-7.7	-1.6	-387.7	-387.7	-6.6	-8.7	-83.6
Turbidity (NTU)	---	NA	0.00	7.3	2.4	5.6	4.9	3.5	4.5	2.2	0.7	3.5	6.1	8.0	11.5	11.5	11.5	4.6	7.3	2.1
Iron II (mg/L)	---	NA	4.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Geochemical Natural Attenuation Parameters (mg/L)																				
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	3.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	3.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	65.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	NA	0.00014	0.00043	0.00016	0.00029	0.00013	0.0002	0.00066	0.00068	0.00011	0.00038	0.000092	0.000042	0.000053 J	0.000084	0.000084	NA	<0.007	<0.007
Ethane	---	NA	<0.000005	<0.000005	<0.000005	0.000011	<0.00001	<0.000010	<0.00001	0.000006J	0.000009J	0.000006J	0.000003J	0.000002J	0.000006 J	0.000003 J	0.000003	NA	<0.009	<0.009
Methane	---	NA	6.10	5.9	3.8	5.4	3.7	4.6	5.1	2.9	3.2	3.8	1.8	1.2	2.8 J	3.4	3.4	NA	3.4	2.2
Hydrogen (nmol/L)	---	NA	1.20	2.2	2.4	4.1	3.3	3.8	1.7	3.2	2.8	0.71	330	18	5.2	2.6	2.6	NA	NA	NA

Notes:

Bold concentrations exceed Risk Reduction Standards

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

August 2013

Sample Location		MW-7			MW-8																
Date Sampled	TYPE 3/4 RRS mg/L	May-12	Dec-12	Jun-13	Oct-98	Jul-00	Dec-00	Apr-01	Dec-03	Dec-03 Dup	May-04	May-04 Dup	Nov-04	May-05	May-05 Dup	Jun-06	Jun-06 Dup	Dec-06	Dec-06 Dup	May-07	May-07 DUP
VOCs (mg/L)																					
Chloroethane	---	<0.01	<0.01	<0.01	0.041	<1	<0.1	0.046	0.38	0.37	<0.05	<0.05	0.04	<0.1	0.03	<0.050	0.025 J	<0.020	0.02	<0.020	<0.020
1,1,2,2-Tetrachloroethane	0.005	<0.005	<0.005	<0.005	0.001	<0.5	<0.05	<0.002	<0.050	<0.05	<0.05	<0.05	<0.025	<0.1	<0.001	<0.050	<0.025	<0.02	<0.02	<0.02	<0.02
1,1,1-Trichloroethane	13	<0.005	<0.005	<0.005	53	6.2	0.67	2.5	1.3	1.3	0.75	0.95	2.0	1.9	1.9	2.2	1.7	0.55	0.65	0.74	0.87
1,1,2-Trichloroethane	0.005	<0.005	<0.005	<0.005	0.052	<0.5	<0.05	<0.002	<0.050	<0.05	<0.05	<0.05	<0.025	<0.1	0.0019	<0.050	<0.025	<0.020	<0.020	<0.02	<0.02
Trichloroethylene	0.0052	<0.005	<0.005	<0.005	140	14	1	4	2.4	2.4	1.6	1.8	3.3	4.6	4.7	5.3	4.4	0.71	0.8	1.3	1.6
1,1-Dichloroethene	0.52	<0.005	<0.005	<0.005	45	8.7	0.9	2.3	2.4	2.2	1.2	1.3	3.6	3.3	3.5	4.9	3.2	2.1	2.3	1.7	1.9
1,1-Dichloroethane	---	<0.005	<0.005	<0.005	0.94	<0.5	0.13	0.17	0.28	0.27	0.17	0.2	0.19	0.23	0.24	0.28	0.23	0.18	0.19	0.15	0.18
1,2-Dichloroethane	0.005	<0.005	<0.005	<0.005	0.03	<0.5	<0.05	<0.002	<0.050	<0.05	<0.05	<0.050	<0.025	<0.1	<0.001	<0.050	<0.025	<0.020	<0.020	<0.020	<0.020
cis-1,2-Dichloroethene	0.2	<0.005	<0.005	<0.005	4.5	4.5	1.1	1.4	2.3	2.1	2.3	3.6	2.7	3	4.2	3.4	3.4	3.7	1.9	2.2	2.2
trans-1,2-Dichloroethene	---	<0.005	<0.005	<0.005	ND	<0.5	<0.05	NA	<0.050	<0.05	<0.05	<0.05	<0.025	<0.1	0.01	<0.050	<0.025	<0.020	<0.020	<0.020	<0.020
Vinyl Chloride	0.0033	<0.002	<0.002	<0.002	0.93	1.6	0.99	0.37	1.8	1.8	0.73	0.85	0.73	1.1	1.2	1.4	0.89	0.81	0.78	0.69	0.67
SVOCs (mg/L)																					
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA		NA		NA		NA	
Field Parameters																					
pH (std. Units)	---	5.06	5.18	5.05	NA	NA	6.04	5.23	6.09	NA	5.81	NA	6.14	5.88	5.88	5.75	5.75	5.86	5.86	5.76	5.76
Specific Conductance (mS/cm)	---	0.057	0.082	0.170	NA	NA	0.17	0.14	0.48	NA	0.33	NA	0.524	0.384	0.384	0.419	0.419	0.403	0.403	0.371	0.371
Temperature (deg. C)	---	20.63	16.08	18.95	NA	NA	17.02	NA	18.53	NA	20.95	NA	20.71	19.16	19.16	21.15	21.15	19.27	19.27	19.54	19.54
Dissolved Oxygen (mg/L)	---	0.24	0.68	0.58	NA	NA	0.00	NA	0.24	NA	0.33	NA	0.65	0.93	0.93	0.46	0.46	0.33	0.33	0.88	0.88
ORP (mV)	---	131.9	224.2	-37.0	NA	NA	-49.00	NA	-47.4	NA	-70	NA	-82.2	-19.1	-19.1	-12.1	-12.1	-45.2	-45.2	-8.5	-8.5
Turbidity (NTU)	---	60.8	161.4	7.3	NA	NA	10.50	NA	6.7	NA	0.5	NA	5.6	4.9	4.9	3.9	3.9	1.7	1.7	4.5	4.5
Iron II (mg/L)	---	NA	NA	NA	NA	NA	3.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Geochemical Natural Attenuation																					
Parameters (mg/L)																					
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	NA	NA	NA	NA	13.00	NA	NA	NA	NA	NA	NA	9.6	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	NA	NA	NA	NA	21.00	NA	NA	NA	NA	NA	NA	37	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	<0.10	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	NA	NA	NA	NA	1.90	NA	NA	NA	NA	NA	NA	<1.0	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	NA	NA	NA	NA	59.00	NA	NA	NA	NA	NA	NA	76	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	NA	NA	NA	NA	0.16	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200	NA	NA	NA	NA	NA	NA	NA
Ethene	---	NA	<0.007	<0.007	NA	NA	0.23	NA	0.32	NS	0.11	0.12	0.053	0.054	NA	0.13	0.13	0.051	0.064	0.046	0.063
Ethane	---	NA	<0.009	<0.009	NA	NA	0.00	NA	0.00022	NS	0.00072	0.0013	0.0014	0.0012	NA	0.0038	0.0037	0.0018	0.003	0.0021	0.0042
Methane	---	NA	0.17	0.94	NA	NA	7.70	NA	7.3	NS	7.7	11	4.1	8	NA	12	12	4.3	7.1	7.7	9.6
Hydrogen (nmol/L)	---	NA	NA	NA	NA	NA	<0.03	NA	2	NS	1.6	NA	2.0	1.2	NA	0.87	NA	18	NA	1.2	NA

Notes:

Bold concentrations exceed Risk Reduction Standards

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

August 2013

Sample Location		MW-8 continued																	
Date Sampled	TYPE 3/4 RRS mg/L	Jun-08	Jun-08 Dup	Oct-08	Oct-08 Dup	Apr-09	Apr-09	Sep-09	Sep-09	Dec-09	May-10	DUP-1	Nov-10	Nov-10	May-12	Dec-12	Dec-12	Jun-13	Jun-13
VOCs (mg/L)							DUP		DUP						DUP-1		DUP-1		DUP-1
Chloroethane	---	<0.1	<0.05	<0.025	<0.025	<0.005	<0.005	0.0595	0.0556	<0.01	0.0134	<0.025	0.0905	0.0632	<0.01	0.025	0.026	<0.010	<0.010
1,1,2,2-Tetrachloroethane	0.005	<0.1	<0.05	<0.025	<0.025	<0.005	<0.005	<0.04	<0.025	<0.01	<0.01	<0.025	<0.02	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	13	5.55	5.27	0.217	0.194	0.32	0.32	1.1	0.802	0.296	1.1	0.96	1.65	1.36	0.740	2.5	2.6	0.470	0.520
1,1,2-Trichloroethane	0.005	<0.1	<0.05	<0.025	<0.025	<0.005	<0.005	<0.0400	<0.0250	<0.01	<0.01	<0.025	<0.02	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethylene	0.0052	11.9	11.1	0.532	0.529	0.577	0.594	1.54	1.05	0.396	1.87	1.68	3.56	2.99	1.5	4.6	4.8	0.73	0.82
1,1-Dichloroethene	0.52	8.34	7.86	0.567	0.541	0.611	0.587	3.17	2.26	1.17	1.99	1.75	4.19	3.21	2.2	6.2	6.5	1.9	1.9
1,1-Dichloroethane	---	0.43	0.428	0.0797	0.0834	0.0442	0.0472	0.397	0.38	0.0789	0.128	0.127	0.252	0.247	0.170	0.250	0.250	0.110	0.110
1,2-Dichloroethane	0.005	<0.100	<0.05	<0.025	<0.025	<0.005	<0.005	<0.0400	<0.0250	<0.01	<0.01	<0.025	<0.02	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,2-Dichloroethene	0.2	5.86	5.66	0.875	0.815	0.808	0.783	4.19	3.36	1.82	2.02	1.87	4.1	3.54	2.7	7.0	7.1	2.1	2.0
trans-1,2-Dichloroethene	---	<0.100	<0.05	<0.025	<0.025	0.0051	0.0064	<0.0400	<0.0250	<0.01	<0.01	<0.025	<0.02	<0.02	<0.005	8.6	9.1	<0.005	<0.005
Vinyl Chloride	0.0033	1.32	1.22	0.421	0.372	0.219	0.23	2.4	2.09	0.589	0.902	0.802	1.89	1.56	0.47	2.1	2.2	0.86	0.82
SVOCs (mg/L)																			
1,4-Dioxane (p-Dioxane)	---	NA		NA		<0.0200	<0.0200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters																			
pH (std. Units)	---	5.72	5.72	NA	NA	6.41	NA	5.87	5.87	6.40	5.94	5.94	5.67	5.67	6.02	6.05	6.05	5.41	5.41
Specific Conductance (mS/cm)	---	0.489	0.489	NA	NA	0.29	NA	0.482	0.482	0.442	0.400	0.40	0.404	0.404	0.499	0.669	0.669	0.288	0.288
Temperature (deg. C)	---	24.25	24.25	NA	NA	17.77	NA	24.82	24.82	19.80	20.16	20.16	21.70	21.70	23.12	17.50	17.50	20.19	20.19
Dissolved Oxygen (mg/L)	---	0.61	0.61	NA	NA	0.3	NA	0.08	0.08	0.31	0.22	0.22	0.48	0.48	0.85	2.22	2.22	0.53	0.53
ORP (mV)	---	-131.4	-131.4	NA	NA	7.4	NA	-14.6	-14.6	-100.7	8.0	8.0	-428.8	-428.8	4.5	-52.6	-52.6	-32.8	-32.8
Turbidity (NTU)	---	4	4	NA	NA	0.1	NA	5.3	5.3	4.6	20.1	20.1	0	0	10.1	7.4	7.4	2.7	2.7
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Geochemical Natural Attenuation																			
Parameters (mg/L)																			
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	0.062	0.057	NA	NA	0.0021	0.0045	0.074	0.08	0.016	0.023 J	0.048	0.078	0.078	NA	0.067	0.067	0.01	0.014
Ethane	---	0.0025	0.0024	NA	NA	0.00013	0.00032	0.0018	0.0019	0.00093	0.00077 J	0.003	0.00072	0.00072	NA	<0.009	<0.009	<0.009	<0.009
Methane	---	8.2	11	NA	NA	0.42	1.2	4.1	4.4	2.4	3.0 J	12.0	1.7	1.7	NA	6.4	6.4	7.9	8
Hydrogen (nmol/L)	---	7.3	NA	NA	NA	2.8	0.0019	56	61	1.5	2.1	NA	0.92	0.92	NA	NA	NA	NA	NA

Notes:

Bold concentrations exceed Risk Reduction Standards

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

Sample Location		MW-9/9R																
Date Sampled	TYPE 3/4 RRS mg/L	Oct-98	Dec-00	May-04	Nov-04	May-05	Jun-06	Dec-06	May-07	Jun-08	Apr-09	Sep-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13
VOCs (mg/L)																		
Chloroethane	---	ND	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.01
1,1,2,2-Tetrachloroethane	0.005	ND	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	13	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	0.005	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Trichloroethylene	0.0052	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1-Dichloroethene	0.52	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1-Dichloroethane	---	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.005	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
cis-1,2-Dichloroethene	0.2	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene	---	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Vinyl Chloride	0.0033	0.003	<0.010	<0.001	0.0021	0.0013	0.00067 J	0.00056 J	0.00066 J	0.0014	<0.001	<0.001	0.00068 J	<0.001	<0.001	<0.002	<0.002	<0.002
SVOCs (mg/L)																		
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0208	NA	NA	NA	NA	NA	NA	NA
Field Parameters																		
pH (std. Units)	---	NA	6.51	6.33	6.34	6.26	6.26	6.39	6.29	6.21	6.52	6.56	6.52	6.44	6.04	6.33	6.37	6.37
Specific Conductance (mS/cm)	---	NA	0.24	0.328	0.459	0.484	0.413	0.384	0.396	0.415	0.306	0.294	0.351	0.186	0.227	0.323	0.216	0.337
Temperature (deg. C)	---	NA	15.77	24.44	20.82	23.91	25.2	18.71	21.52	23.54	18.35	27.1	19.88	23.55	22.06	24.91	18.99	21.54
Dissolved Oxygen (mg/L)	---	NA	0	3.85	0.22	4.07	0.41	0.37	0.34	0.41	2.85	0.21	1.12	4.8	0.86	0.82	3.31	1.49
ORP (mV)	---	NA	-62	31	-53.9	-113.1	-12.5	-52.9	-86.2	-128.6	34.6	28.6	-31.4	110	202.1	30.5	46.0	-27.4
Turbidity (NTU)	---	NA	0.7	0	3.8	1.1	0	3.8	0.3	0	10.6	0.3	2	9.7	4.6	4.12	8.3	9.6
Iron II (mg/L)	---	NA	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Geochemical Natural Attenuation Parameters (mg/L)																		
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	NA	0	0.000053	0.00033	0.00018	0.00023	0.00017	0.000078	0.00014	0.000009 J	0.000002 J	0.000042	0.000025 J	0.000041	NA	<0.007	<0.007
Ethane	---	NA	<0.000005	0.0000054	0.000032	0.00001	0.000008 J	0.000006 J	0.000008 J	0.000019	<0.00001	0.000027	0.000002 J	<0.00001	0.000004 J	NA	<0.009	<0.009
Methane	---	NA	2	0.48	2.5	1	1.5	0.74	1.1	2	0.087	0.062	0.094	0.0081 J	0.21	NA	0.084	0.24
Hydrogen (nmol/L)	---	NA	0.38	4501	0.71	1.1	1.5	2.1	3.7	1.4	0.65	210	28	14	0.8	NA	NA	NA

Notes:

Bold concentrations exceed Risk Reduction Standards

1) The 450 nmol/L of Hydrogen result is anomalously high. Laboratory re-checked their calculation and confirmed this result. However, because this data point is a potential outlier, it will not be considered a valid data point for MW-9R in May 2004.

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

Sample Location		MW-10							
Date Sampled	TYPE 3/4 RRS mg/L	Oct-98	Dec-00	Dec-03	May-04	Dec-04	May-05	Jun-06	Jun-13
<u>VOCs (mg/L)</u>									
Chloroethane	---	ND	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010
1,1,2,2-Tetrachloroethane	0.005	NA	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005
1,1,1-Trichloroethane	13	ND	<0.005	<0.001	<0.003	<0.001	<0.001	<0.001	<0.005
1,1,2-Trichloroethane	0.005	NA	<0.005	<0.001	<0.004	<0.001	<0.001	<0.001	<0.005
Trichloroethylene	0.0052	0.002	<0.005	<0.001	<0.005	<0.001	0.001	0.00057 J	<0.005
1,1-Dichloroethene	0.52	ND	<0.005	0.0017	0.0014	<0.001	<0.001	0.00099 J	<0.005
1,1-Dichloroethane	---	0.003	<0.005	0.0023	0.0024	0.0012	0.0015	0.0015	<0.005
1,2-Dichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
cis -1,2-Dichloroethene	0.2	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
trans -1,2-Dichloroethene	---	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Vinyl Chloride	0.0033	ND	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
<u>SVOCs (mg/L)</u>									
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA
<u>Field Parameters</u>									
pH (std. Units)	---	NA	4.98	5.37	5.22	5.20	4.74	4.44	5.07
Specific Conductance (mS/cm)	---	NA	0.04	0.05	0.038	0.048	0.039	0.038	0.051
Temperature (deg. C)	---	NA	14.36	16.48	19.22	18.05	19.63	19.02	17.11
Dissolved Oxygen (mg/L)	---	NA	0.00	0.38	0.33	0.21	0.48	0.58	0.55
ORP (mV)	---	NA	-35.00	2.8	61.2	5.9	103.0	36.2	119.7
Turbidity (NTU)	---	NA	0.20	0.7	3.5	2.0	0.0	2.3	101.6
Iron II (mg/L)	---	NA	2.80	NA	NA	NA	NA	NA	NA
<u>Geochemical Natural Attenuation Parameters (mg/L)</u>									
Iron II	---	NA	NA	NA	NA	NA	2.7	NA	NA
Total Organic Carbon	---	NA	2.40	NA	NA	NA	1.2	NA	NA
Chloride	---	NA	2.80	NA	NA	NA	2.5	NA	NA
Nitrate	---	NA	<0.05	NA	NA	NA	<0.10	NA	NA
Sulfate	---	NA	4.10	NA	NA	NA	<1.0	NA	NA
Total Alkalinity	---	NA	11.00	NA	NA	NA	7.5	NA	NA
Total Sulfide	---	NA	<0.1	NA	NA	NA	<0.10	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	60	NA	NA
Ethene	---	NA	<0.000005	<0.000005	0.000004 J	<0.000005	<0.00001	<0.00001	NA
Ethane	---	NA	<0.000005	<0.000005	0.0000021	0.000018	0.000005	0.000002 J	NA
Methane	---	NA	0.08	0.3	0.16	0.18	0.15	0.22	NA
Hydrogen (nmol/L)	---	NA	0.28	1.1	1.8	0.63	1.2	24	NA

Notes:

Bold concentrations exceed Risk Reduction Standards

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

August 2013

Sample Location		MW-11																
Date Sampled	TYPE 3/4 RRS mg/L	Oct-98	Dec-00	Dec-03	May-04	Dec-04	May-05	Jun-06	Dec-06	May-07	Jun-08	Apr-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13
VOCs (mg/L)																		
Chloroethane	---	ND	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010	<0.01	<0.01
1,1,2,2-Tetrachloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	13	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Trichloroethylene	0.0052	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1-Dichloroethene	0.52	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0016	<0.001	0.0016	<0.001	<0.005	<0.005	<0.005
1,1-Dichloroethane	---	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
cis-1,2-Dichloroethene	0.2	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00083 J	0.0026	<0.001	0.0028	<0.001	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene	---	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Vinyl Chloride	0.0033	ND	<0.010	<0.001	<0.001	<0.001	<0.001	0.00036 J	<0.001	<0.001	<0.001	0.00095 J	0.00031 J	0.0025	<0.001	<0.002	<0.002	<0.002
SVOCs (mg/L)																		
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0200	NA	NA	NA	NA	NA	NA
Field Parameters																		
pH (std. Units)	---	NA	5.18	5.54	5.51	5.41	5.44	4.28	5.16	5.2	4.2	5.62	5.51	5.17	5.21	5.09	4.93	4.85
Specific Conductance (mS/cm)	---	NA	0.43	0.06	0.06	0.06	0.058	0.111	0.044	0.047	0.1	0.038	0.038	0.06	0.059	0.047	0.185	0.101
Temperature (deg. C)	---	NA	8.47	10.95	21.2	14.54	18.48	20.2	11.85	18.55	20.49	15.61	14.14	20.18	17.22	22.36	14.32	20.97
Dissolved Oxygen (mg/L)	---	NA	0.00	0.27	0.36	0.19	0.45	0.39	0.29	0.33	0.53	0.19	0.20	0.13	0.40	1.10	3.15	0.94
ORP (mV)	---	NA	137.00	141.7	90.1	85.9	72.1	290.6	-221.7	200.6	462.2	92.5	143.3	115.2	156.0	190.1	264.6	58.7
Turbidity (NTU)	---	NA	4.50	10.3	10.8	2.5	5.8	8.6	5.5	5.4	1.5	3.7	29.5	9.1	8.8	9.04	9.8	3.1
Iron II (mg/L)	---	NA	2.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Geochemical Natural Attenuation Parameters (mg/L)																		
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	6.30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	4.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	1.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	9.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	NA	0.00040	0.000092	0.000025	0.00019	0.00012	0.00017	0.000008 J	0.000032	0.000015	0.00021	0.000042	0.00075 J	0.000042	NA	<0.007	<0.007
Ethane	---	NA	<0.000005	<0.000005	<0.000005	0.000018	<0.00001	0.000003 J	<0.00001	<0.00001	0.000002 J	0.000003 J	<0.00001	0.000008 J	0.000004 J	NA	<0.009	<0.009
Methane	---	NA	0.07	0.16	0.15	0.30	0.38	0.14	0.084	0.450	0.100	0.34	0.037	0.430 J	0.0064	NA	0.004	0.052
Hydrogen (nmol/L)	---	NA	<0.030	0.94	1.3	1.4	1.1	4.4	1.4	1.2	1.3	19	6.9	1.7	1.1	NA	NA	NA

Notes:

Bold concentrations exceed Risk Reduction Standards

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

Sample Location		MW-12												
Date Sampled	TYPE 3/4 RRS mg/L	Oct-98	Dec-00	May-04	Dec-04	May-05	Jun-06	Apr-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13
<u>VOCs (mg/L)</u>														
Chloroethane	---	ND	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010
1,1,2,2-Tetrachloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	13	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Trichloroethylene	0.0052	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1-Dichloroethene	0.52	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1-Dichloroethane	---	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
cis-1,2-Dichloroethene	0.2	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene	---	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Vinyl Chloride	0.0033	ND	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002
<u>SVOCs (mg/L)</u>														
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Field Parameters</u>														
pH (std. Units)	---	NA	4.97	4.98	5.07	4.94	4.97	5.15	5.47	5.09	5.05	4.79	5.45	4.73
Specific Conductance (mS/cm)	---	NA	0.02	0.027	0.03	0.028	0.026	0.033	0.029	0.032	0.026	0.031	0.029	0.57
Temperature (deg. C)	---	NA	15.32	19.62	18.38	19.31	21.4	17.26	17.66	18.48	19.9	20.94	15.27	19.33
Dissolved Oxygen (mg/L)	---	NA	2.80	2.46	4.20	2.23	3.06	3.05	3.47	1.41	5.40	1.39	6.89	1.91
ORP (mV)	---	NA	280.00	160	269.0	275.5	325.6	144.1	246.9	283.9	-175.3	307.4	215.3	237.0
Turbidity (NTU)	---	NA	1.20	2.5	10.2	10	11.7	7.7	7.5	14.3	82.9	41.9	80.8	8.6
Iron II (mg/L)	---	NA	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Geochemical Natural Attenuation Parameters (mg/L)</u>														
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	2.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	1.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	2.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	NA	0.00003	0.0000085	#####	<0.00001	<0.00001	NA	NA	NA	NA	NA	<0.007	<0.007
Ethane	---	NA	<0.000005	<0.000005	<0.000005	<0.00001	<0.00001	NA	NA	NA	NA	NA	<0.009	<0.009
Methane	---	NA	0.01	0.0034	0.0059	0.0022	0.000086	NA	NA	NA	NA	NA	<0.004	<0.004
Hydrogen (nmol/L)	---	NA	<0.030	NA	0.58	1.5	1.7	NA	NA	NA	NA	NA	NA	NA

Notes:

Bold concentrations exceed Risk Reduction Standards

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

Sample Location		MW-15												
Date Sampled	TYPE 3/4 RRS mg/L	Jun-99	Dec-00	Jun-06	Dec-06	May-07	Jun-08	Apr-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13
<u>VOCs (mg/L)</u>														
Chloroethane	---	NA	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010
1,1,2,2-Tetrachloroethane	0.005	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	13	ND	<0.0050	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	0.005	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Trichloroethylene	0.0052	ND	<0.0050	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1-Dichloroethene	0.52	NA	<0.0050	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,1-Dichloroethane	---	NA	<0.0050	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.005	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
cis-1,2-Dichloroethene	0.2	ND	<0.0050	<0.001	<0.001	0.0011	0.0011	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene	---	ND	<0.0050	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005
Vinyl Chloride	0.0033	ND	<0.01	0.0012	0.0022	0.0014	0.0012	0.00045J	<0.001	0.0015	0.0015	<0.002	<0.002	<0.002
<u>SVOCs (mg/L)</u>														
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	<0.0211	NA	NA	NA	NA	NA	NA
<u>Field Parameters</u>														
pH (std. Units)	---	NA	6.47	5.92	6.06	6.06	5.25	5.96	5.80	6.07	5.81	5.45	5.97	6.07
Specific Conductance (mS/cm)	---	NA	0.23	0.251	0.243	0.375	0.193	0.109	0.072	0.243	0.197	0.047	0.198	0.219
Temperature (deg. C)	---	NA	17.29	26.5	20.68	22.36	24.42	19.2	17.94	21.82	23.77	25.66	19.8	21.32
Dissolved Oxygen (mg/L)	---	NA	0.00	0.35	0.28	0.4	0.35	1.22	0.74	0.19	0.42	0.44	0.70	0.39
ORP (mV)	---	NA	-62.0	4.8	-262.9	-48.7	33.6	45.8	28.3	-33.9	-319.2	61.9	-20.8	-41.5
Turbidity (NTU)	---	NA	1.0	0	0.9	0	0.2	9.7	2.7	4.8	1.8	2.68	8.0	4.3
Iron II (mg/L)	---	NA	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Geochemical Natural Attenuation</u>														
<u>Parameters (mg/L)</u>														
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	9.90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	3.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	NA	0.0002	0.000088	0.000033	0.00009	0.000049	0.000004J	0.000004J	0.000053 J	0.000024	NA	<0.007	<0.007
Ethane	---	NA	0.00011	0.00002	0.000046	0.000095	0.000028	0.000014	<0.00001	0.000055 J	0.000006 J	NA	<0.009	<0.009
Methane	---	NA	9.4	8.8	8.5	8.6	6.2	2.4	0.54	7.7 J	1.9	NA	7.5	6.9
Hydrogen (nmol/L)	---	NA	2	2.5	3	3.1	69	0.62	11.0	2.2	1.8	NA	NA	NA

Notes:

Bold concentrations exceed Risk Reduction Standards

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

Sample Location		MW-16D							MW-18							MW-19						
Date Sampled	TYPE 3/4 RRS mg/L	May-07	Jun-08	Apr-09	Dec-09	May-10	Nov-10	Sep-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13	Sep-09	Dec-09	May-10	DUP-2	Nov-10	May-12	Dec-12	Jun-13
VOCs (mg/L)																						
Chloroethane	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	0.0012	<0.001	<0.001	<0.010	<0.010	<0.010	0.659	0.314	0.735	0.727	0.344	0.31	0.28	1.3
1,1,2,2-Tetrachloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	<0.020	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	0.0501	0.0486	<0.005	<0.005	<0.005	0.033
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	<0.020	<0.020	<0.005	<0.005	<0.005
Trichloroethylene	0.0052	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	0.0172 J	0.0171 J	0.0961	0.550	0.20	0.14
1,1-Dichloroethene	0.52	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0025	0.0022	0.0019	0.0019	<0.005	<0.005	<0.005	0.0118	0.0044 J	0.123	0.123	0.0682	0.500	0.12	0.45
1,1-Dichloroethane	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00085J	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	0.0381	0.0129	0.264	0.258	0.0212	0.050	0.018	0.21
1,2-Dichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	0.0019J	<0.005	<0.020	<0.020	.0011 J	<0.005	<0.005	<0.005
cis-1,2-Dichloroethene	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0021	0.0019	0.0013	0.0020	<0.005	<0.005	<0.005	0.0243	0.007	0.196	0.186	0.0543	0.4	0.11	0.65
trans-1,2-Dichloroethene	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	<0.020	<0.005	<0.005	<0.005	0.011
Vinyl Chloride	0.0033	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0051	0.0038	0.0035	0.0038	0.0033	0.0028	0.0032	0.502	0.113	2.02	2.01	0.198	0.83	0.33	2.9
SVOCs (mg/L)																						
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters																						
pH (std. Units)	---	11.1	9.79	12.09	11.51	11.48	12.67	5.32	5.76	5.70	5.63	5.72	5.91	5.58	5.85	6.19	5.66	5.66	6.27	5.55	5.87	5.85
Specific Conductance (mS/cm)	---	0.444	0.294	4.56	0.705	1.58	1.581	0.173	0.221	0.361	0.276	0.355	0.354	0.291	0.408	0.413	0.477	0.477	0.374	0.315	0.364	0.434
Temperature (deg. C)	---	20.73	21.83	19.82	18.18	20.54	16.99	28.05	20.6	23.25	23.11	24.61	20.48	23.55	23.76	17.84	18.52	18.52	18.54	20.36	16.78	17.61
Dissolved Oxygen (mg/L)	---	0.71	0.75	4.64	5.95	5.89	5.47	0.28	0.29	0.45	0.63	1.2	0.78	0.5	0.26	0.26	0.27	0.27	0.44	1.3	0.70	0.37
ORP (mV)	---	138.9	272.3	-55.9	-59.2	120.4	6.5	138.9	-30.8	12.5	-313.2	6.9	0.4	-39.1	-36.6	-49.2	-14.0	-14.0	-12.1	36.4	-22.8	-28.4
Turbidity (NTU)	---	12	5.8	6.2	18.9	2.6	12.6	9.7	10.1	21.4	6.9	7.49	7.1	4.4	6.3	9.7	10.0	10.0	23.0	33.0	9.3	33.6
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Geochemical Natural Attenuation																						
Parameters (mg/L)																						
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	NA	NA	NA	NA	NA	NA	0.00066	0.00045	0.00065 J	0.00028	NA	<0.007	<0.007	0.78	0.37	0.99 J	1.4	0.77	NA	0.47	0.37
Ethane	---	NA	NA	NA	NA	NA	NA	0.00033	0.0015	0.00099 J	0.00063	NA	<0.009	<0.009	0.022	0.014	0.049 J	0.1	0.029	NA	0.081	0.063
Methane	---	NA	NA	NA	NA	NA	NA	3.7	3.8	2.5 J	3.8	NA	6.8	7.2	3.7	1.4	6.9 J	15	5.8	NA	7.0	5.3
Hydrogen (nmol/L)	---	NA	NA	NA	NA	NA	NA	27	5.8	0.98	7.2	NA	NA	NA	11	26	0.97	NA	1.5	NA	NA	NA

Notes:

Bold concentrations exceed Risk Reduction Standards

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Table 3: Summary of VOCs, Field Measurements, and MNA Parameters (1998-2013)

Sample Location		MW-20								MW-20D							MW-21		
Date Sampled	TYPE 3/4 RRS mg/L	Sep-09	Dec-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13	Sep-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13	May-12	Dec-12	Jun-13
VOCs (mg/L)		DUP-1																	
Chloroethane	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
1,1,2,2-Tetrachloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	0.0053	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethylene	0.0052	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	0.012	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	0.52	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	0.0191	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	0.00099 J	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,2-Dichloroethene	0.2	0.0016	0.0032	0.0031	0.0027	0.0020	<0.005	<0.005	<0.005	0.0152	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride	0.0033	0.0102	0.0115	0.0116	0.0083	0.0067	0.0068	0.0051	<0.002	0.0071	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	0.0075	0.005	0.0071
SVOCs (mg/L)																			
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Parameters																			
pH (std. Units)	---	5.67	5.87	5.87	4.93	5.62	5.66	5.95	5.62	6.14	5.80	4.95	4.36	4.38	4.84	4.43	5.93	6.05	5.95
Specific Conductance (mS/cm)	---	0.306	0.311	0.311	0.326	0.313	0.294	0.459	0.369	0.145	0.084	0.053	0.043	0.050	0.153	0.093	0.398	0.472	0.476
Temperature (deg. C)	---	24.03	18.94	18.94	19.8	20.8	22.50	18.65	20.28	23.21	19.25	21.2	20.83	22.27	19.69	20.98	20.98	17.32	18.03
Dissolved Oxygen (mg/L)	---	0.37	0.35	0.35	0.29	0.48	0.83	2.15	0.53	1.79	2.08	2.09	0.41	1.01	2.11	0.76	1.79	0.71	2.46
ORP (mV)	---	7.5	-23.3	-23.3	44.1	64.9	6.1	-58.9	-42.5	40.2	181.5	262.6	-305.3	266.7	241.8	143.9	-20.6	-34.5	-50.2
Turbidity (NTU)	---	9.5	14.1	14.1	3.9	9.8	3.85	12.6	2.9	364.3	73.8	5.6	200.1	9.40	19.7	9.7	25.8	7.7	2.2
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Geochemical Natural Attenuation																			
Parameters (mg/L)																			
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	0.0022	0.0019	0.0054	0.00081 J	0.00048	NA	<0.007	<0.007	NA	NA	NA	NA	NA	<0.007	<0.007	NA	<0.007	<0.007
Ethane	---	0.00082	0.0005	0.0021	0.00019 J	0.00014	NA	<0.009	<0.009	NA	NA	NA	NA	NA	<0.009	<0.009	NA	<0.009	<0.009
Methane	---	7.3	4.4	13	7.2 J	5	NA	5.8	8.9	NA	NA	NA	NA	NA	<0.004	<0.004	NA	7.1	7.5
Hydrogen (nmol/L)	---	5.4	1.1	NA	0.93	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Bold concentrations exceed Risk Reduction Standards

NA - Data not available or not analyzed

ND - Non Detect

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the detection limit or if the concentration reported is estimated due to other QC reasons.

Prepared by: RPR 6/14/2013

Checked by: GJW 6/18/2013

Table 4
Summary of Surface Water Analytical Results

Sample Location	SW-1	SW-2					SW-3	SW-4				SW-5			SW-6		
Date Sampled	4/13/2009	4/13/2009	5/17/2010	5/30/2012	12/13/2012	6/6/2013	4/13/2009	5/17/2010	5/30/2012	12/13/2012	6/6/2013	5/30/2012	12/13/2012	6/6/2013	5/30/2012	12/13/2012	6/6/2013
VOCs (mg/L)																	
Chloroethane	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethylene	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	<0.001	<0.001	0.0006 ^J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis -1,2-Dichloroethene	0.00096 ^J	<0.001	0.00098 ^J	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans -1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride	0.00044 ^J	0.00048 ^J	0.00042 ^J	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Notes:

J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the method detection limit. Concentration reported is estimated
NA = not analyzed

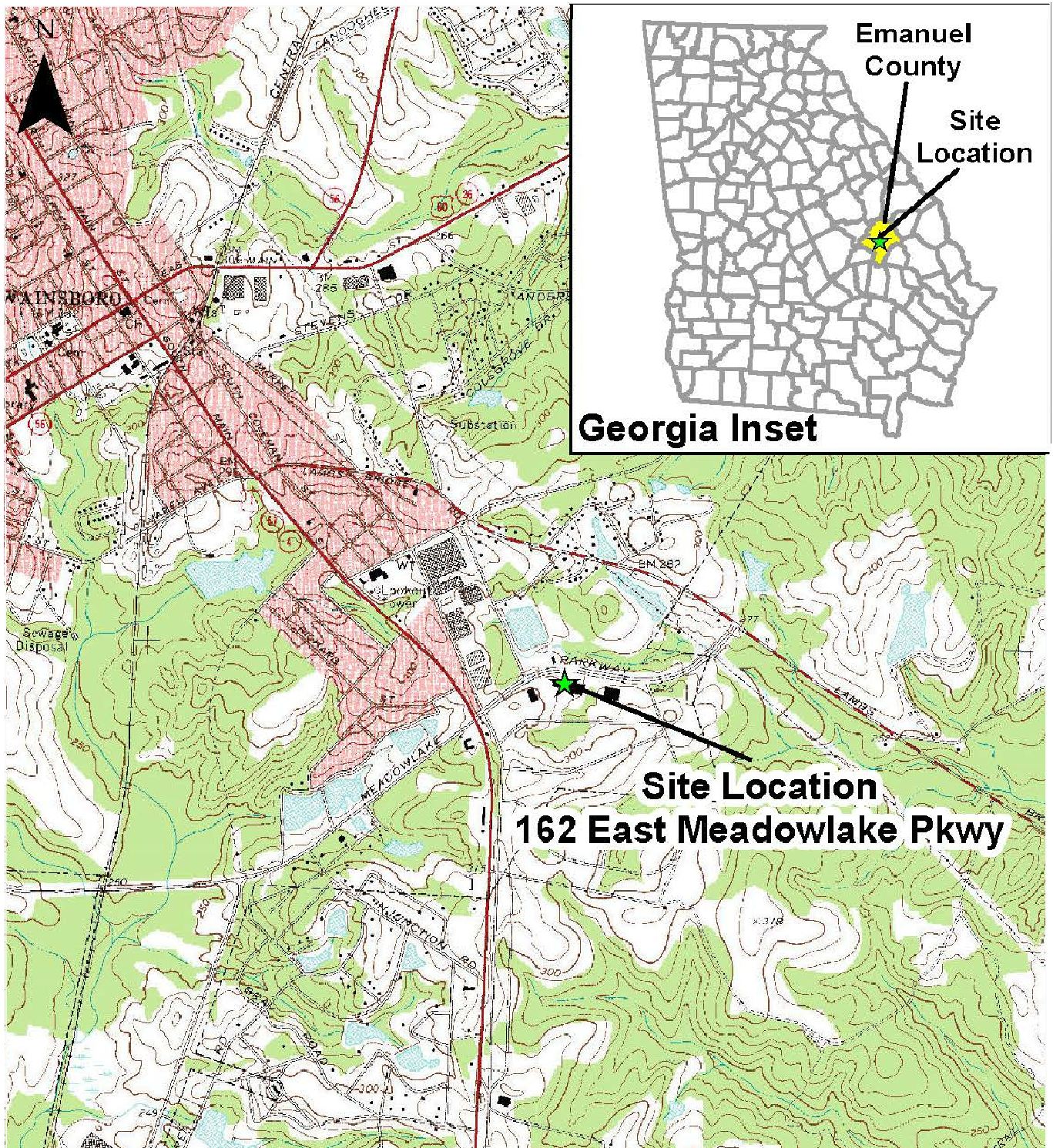
Prepared by: RPR 06/14/13
Checked by: GJW 08/01/13

TABLE 5: SUMMARY OF HOURS INVOICED AND DESCRIPTION OF SERVICES

	Hours Invoiced	Billing Period	Invoice #	Description of Services
Gregory J. Wrenn, P.E.	5	2/16/2013-3/22/2013	H02101097	Finalize VRP Status Report No. 2 and evaluate alternatives for remediation enhancements
Total Project Hours for Billing Period	19.3		3/27/2013	
Gregory J. Wrenn, P.E.	4.5	3/23/2013-4/19/2013	H02101173	Plan and coordinate Hi-Vacuum Extraction (HVE) event; Communicate with Swainsboro-Emanuel County regarding POTW discharge of recovered water; Review EPD Comments on VRP Status Report No. 2
Total Project Hours for Billing Period	23.8		4/25/2013	
Gregory J. Wrenn, P.E.	8	4/20/2013-5/24/2013	H02101288	Subcontracting for HVE event and on-site water treatment; Field oversight of HVE event; Collect rush turnaround sample of mobile air stripper effluent; Evaluate occurrence of separate phase product in MW-10Planning and coordinating sampling event; Summarize site surface water data per EPD request
Total Project Hours for Billing Period	59.7		5/31/2013	
Gregory J. Wrenn, P.E.	7.0	5/25/2013-6/14/2013	H02101313	Subcontracting for sampling event; Collect groundwater and surface water samples; Field data review, management, and evaluation
Total Project Hours for Billing Period	113.3		6/19/2013	
Gregory J. Wrenn, P.E.	6.0	6/15/2013-7/19/2013	H02101417	Project management and preparation of VRP Status Report No. 3
Total Project Hours for Billing Period	19.2		7/25/2013	
Total Hours for PE Gregory J. Wrenn	30.5			
Total Project Hours	235.3			

Prepared by: RPR 8/1/13
Checked by: GJW 8/1/13

FIGURES



Source: USGS 7.5 Minute Topographic Quadrangle, Swainsboro Quad

0 1,000 2,000
Feet

STI PROPERTIES, INC
162 E. MEADOWLAKE PKWY
SWAINSBORO, GA

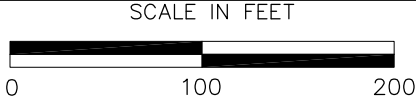
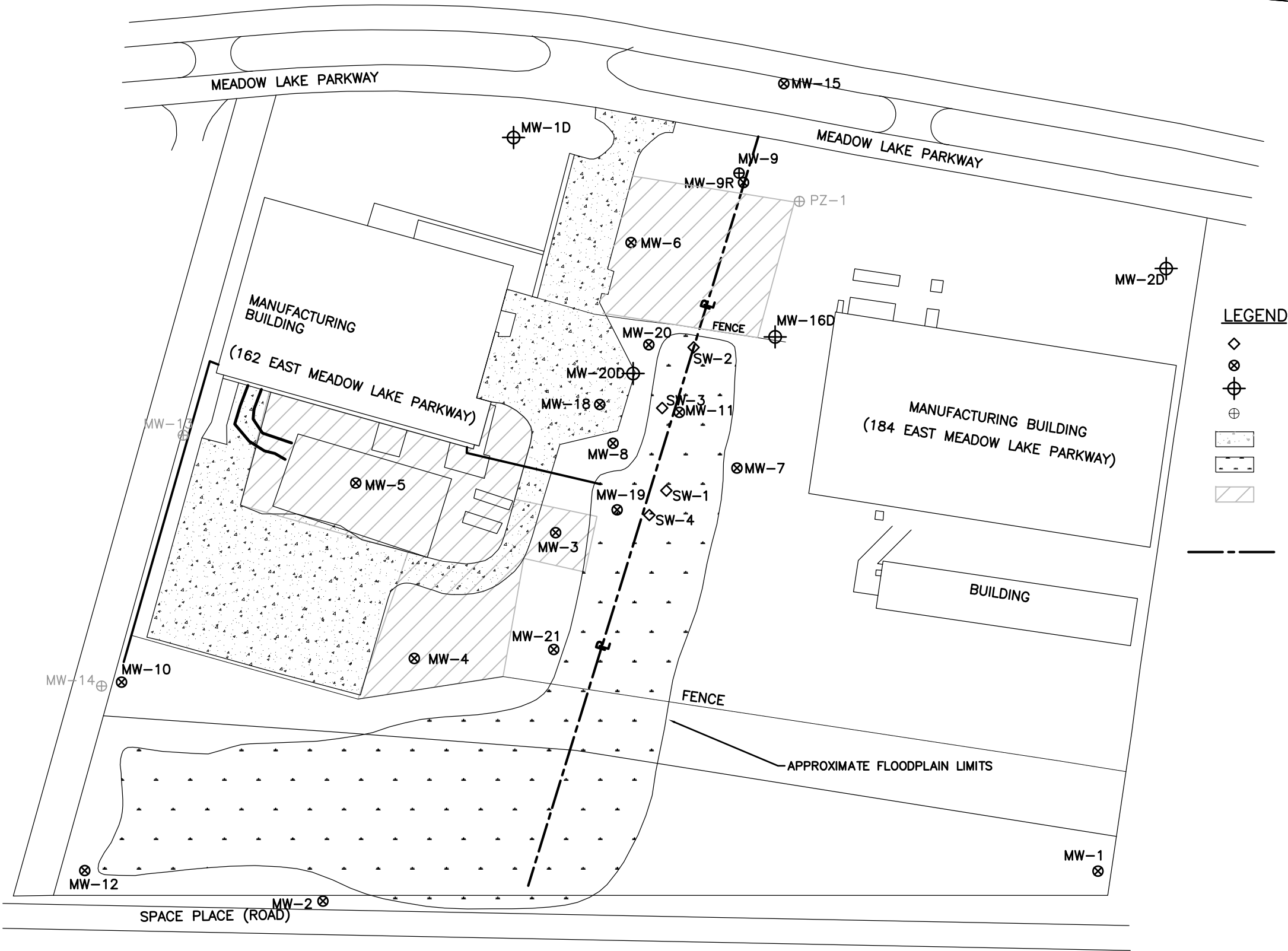


AMEC Environment & Infrastructure, Inc.
3200 TOWN POINT DRIVE, SUITE 100
KENNESAW, GEORGIA 30144 (770) 421-3400

SITE LOCATION MAP

JOB NO. 6125-08-0149 FIGURE 1

PREPARED BY/DATE
CHECKED BY/DATE



SOURCE: BASE MAP EMCON, 12/98 AND 6/99. GIS, AND ESRI WEBMAP SERVICE.

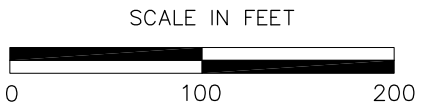
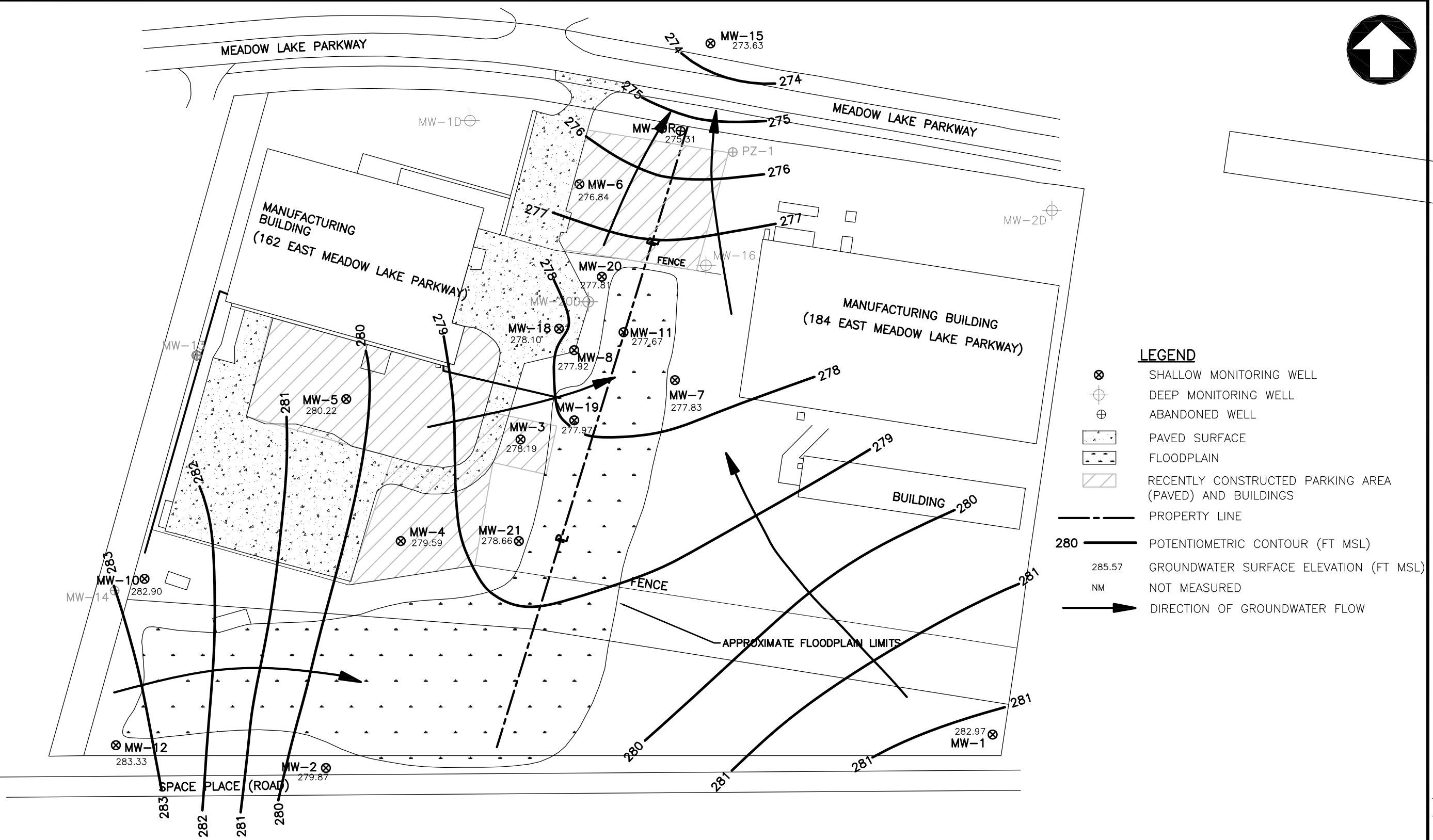
STI PROPERTIES, INC.
162 EAST MEADOWLAKE PKWY
SWAINSBORO, GEORGIA



AMEC Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD, NW, SUITE 100
KENNESAW, GEORGIA 30144 (770) 421-3400

FIGURE 2
SITE LAYOUT MAP

JOB NO. 6125-08-0149



SOURCE: BASE MAP EMCON, 12/98 AND 6/99

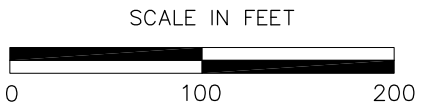
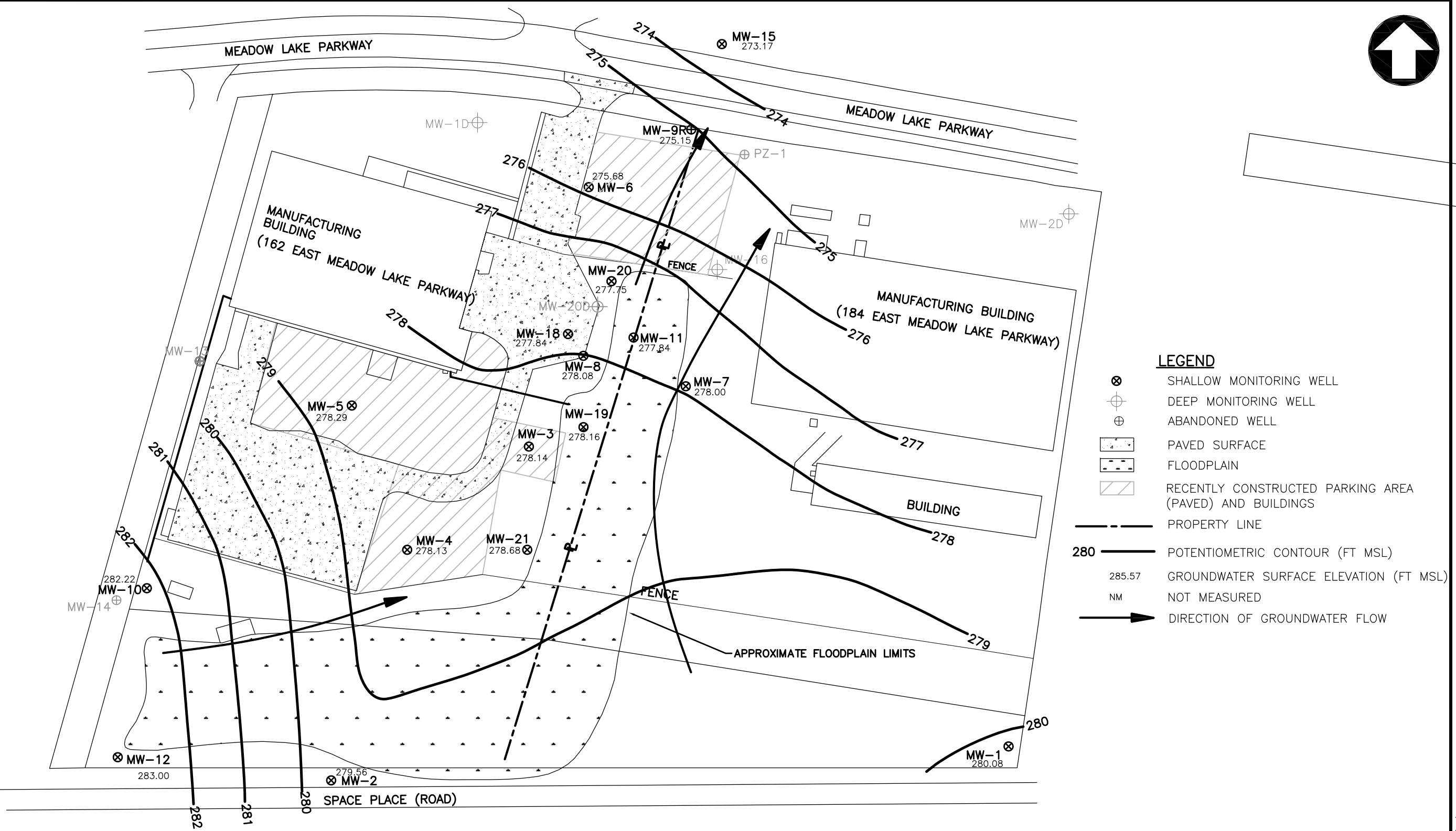
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1075 BIG SHANTY ROAD, NW, SUITE 100
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FIGURE 3a
SHALLOW ZONE
POTENTIOMETRIC SURFACE MAP
JUNE 2013

JOB NO. 6125-08-0149

PREPARED BY/DATE
TG 6/12/2013
CHECKED BY/DATE
RPR 6/12/2013



SOURCE: BASE MAP EMCON, 12/98 AND 6/99

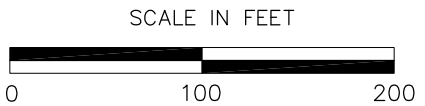
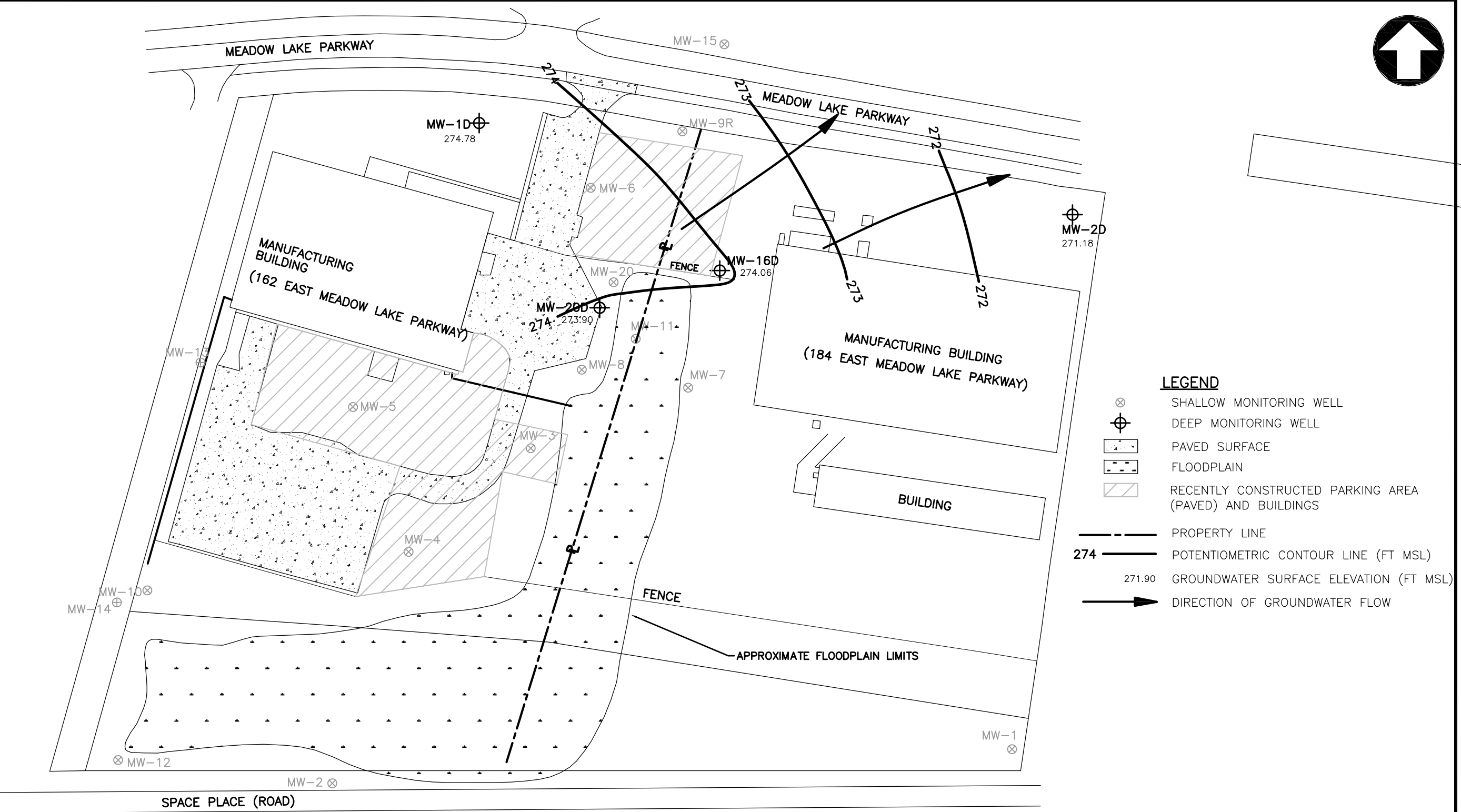
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162 EAST MEADOWLAKE PKWY
SWAINSBORO, GEORGIA

amec
AMEC Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD, NW, SUITE 100
KENNESAW, GEORGIA 30144 (770) 421-3400

FIGURE 3b
SHALLOW ZONE
POTENTIOMETRIC SURFACE MAP
DECEMBER 2012

JOB NO. 6125-08-0149

PREPARED BY/DATE
TG 1/2/2013
CHECKED BY/DATE
RPR 1/2/2013



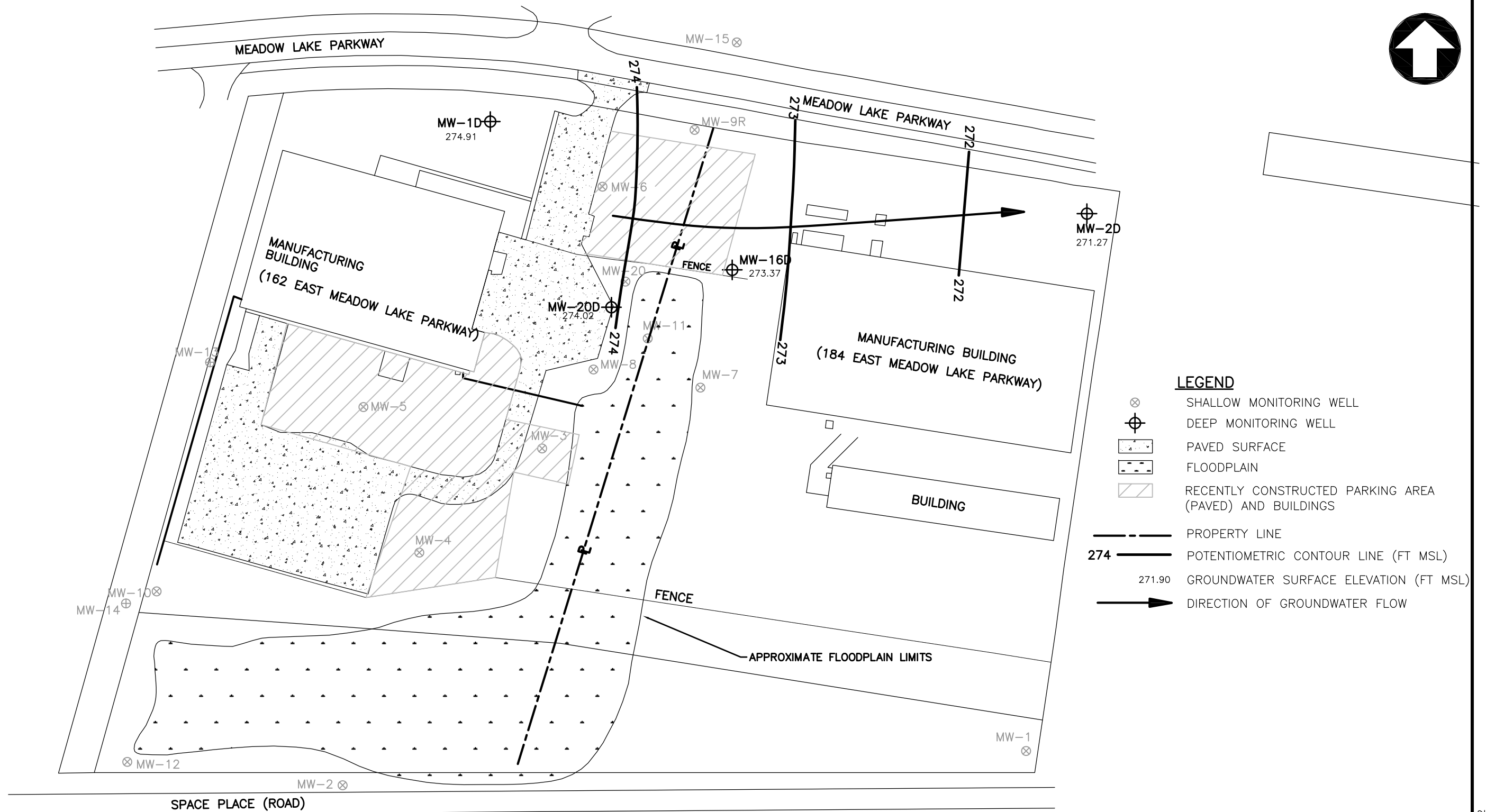
SOURCE: EMCON, 12/98 AND 6/99

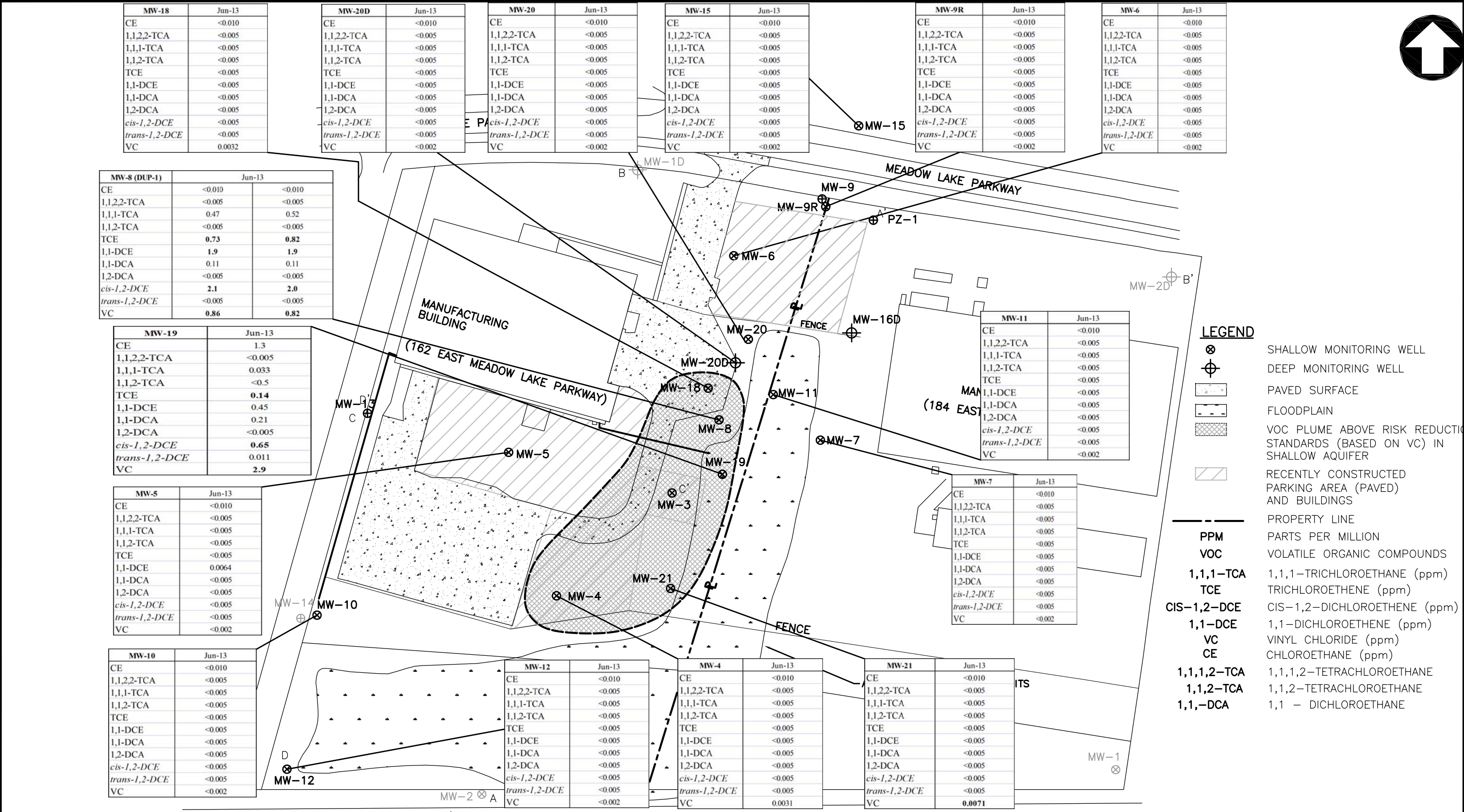
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162 EAST MEADOWLAKE PKWY
SWAINSBORO, GEORGIA

amec
AMEC Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD, NW, SUITE 100
KENNESAW, GEORGIA 30144 (770) 421-3400

FIGURE 4a
DEEP ZONE
POTENTIOMETRIC SURFACE MAP
JUNE 2013
JOB NO. 6125-08-0149

PREPARED BY/DATE
TG 6/12/2013
CHECKED BY/DATE
RPR 6/12/2013





SCALE IN FEET
0 100 200

SOURCE: BASE MAP EMCON, 12/98 AND 6/99. NEW SURVEYED POINTS, MW-3, 4, 5, 18, 19, 20 AND 20D, SEPTEMBER 22, 2009.

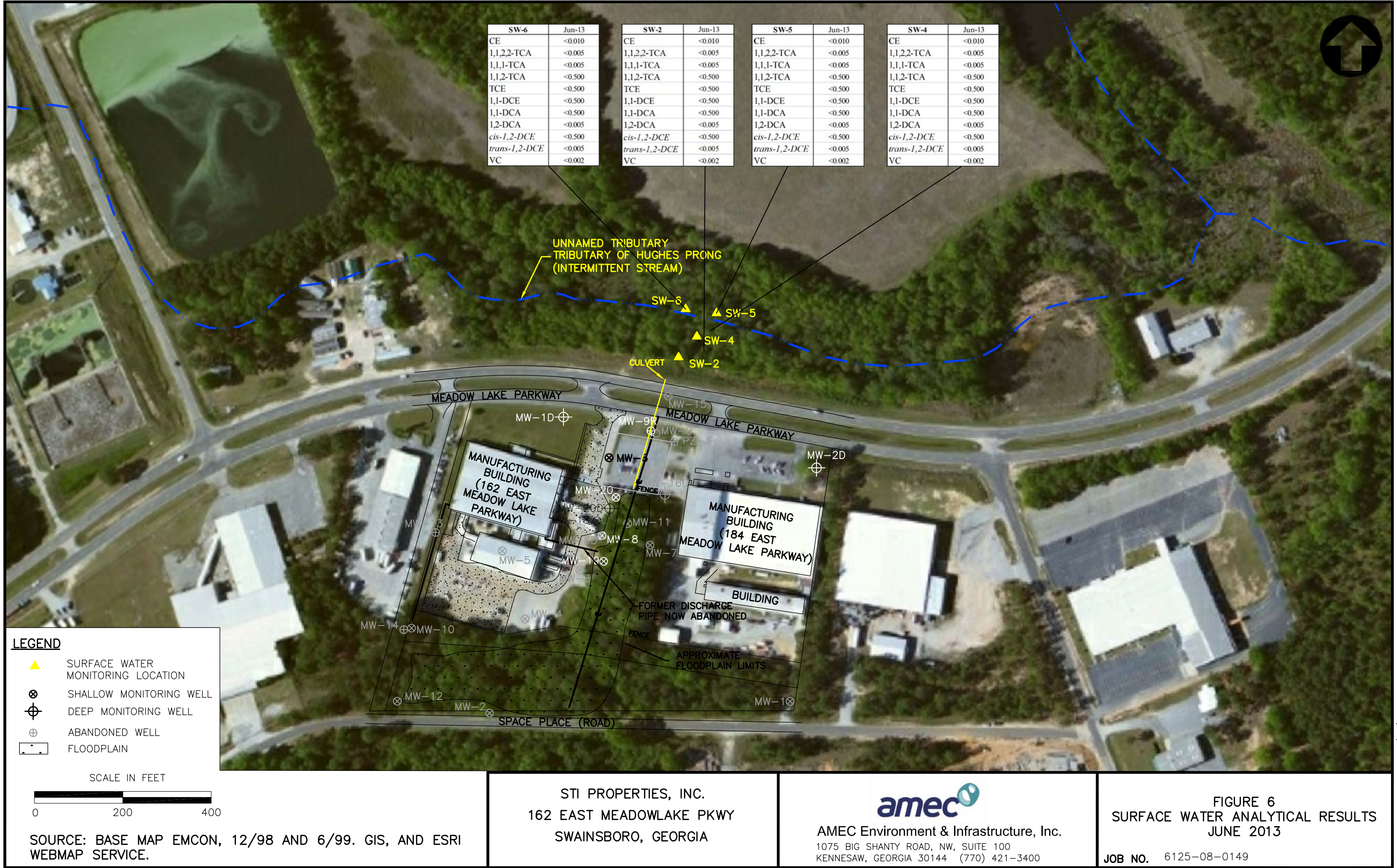
STI PROPERTIES, INC.
162 EAST MEADOWLAKE PKWY
SWAINSBORO, GEORGIA

amec
AMEC Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD, NW, SUITE 100
KENNESAW, GEORGIA 30144 (770) 421-3400

FIGURE 5
VOC CONCENTRATIONS IN GROUNDWATER
JUNE 2013

JOB NO. 6125-08-0149

TG 6/17/2013
RPR 6/17/2013
PREPARED BY/DATE
CHECKED BY/DATE



APPENDIX A
LABORATORY REPORTS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 13, 2013

Gregory Wrenn
AMEC E&I, Inc.
1075 Big Shanty Road, NW, Suite 100
Kennesaw GA 30144

TEL: (770) 421-3400
FAX: (770) 421-3486

RE: STI Swainsboro

Dear Gregory Wrenn:

Order No: 1306737

Analytical Environmental Services, Inc. received 21 samples on 6/7/2013 12:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck
Project Manager



3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1306737

Date: 6/7/13 Page 1 of 2

COMPANY: AMEC

PHONE: 770-421-3400

SAMPLED BY: D Howard / Ever Guillen

ADDRESS: 1075 Big Shanty Rd Ste 100 Kennesaw, GA 30144

FAX: 770-421-3486

SIGNATURE: Daniel Howard

ANALYSIS REQUESTED

VOC list

CH4, H2, ethane, ethene

PRESERVATION (See codes)

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

REMARKS

#

SAMPLE ID

DATE

TIME

Grab

Composite

Matrix (See codes)

H

HH

1

TB-01

6/5/13

1100

X

W

2

2

MW-11

1152

X

GW

2

2

3

MW-7

1352

X

GW

2

2

4

MW-6

1522

X

GW

2

2

5

MW-20

1646

X

GW

2

2

6

MW-12

1125

X

GW

2

2

7

MW-9R

1355

X

GW

2

2

8

MW-15

1510

X

GW

2

2

9

MW-4

1650

X

GW

2

2

10

MW-20D

6/6/13

1045

X

GW

2

2

11

MW-18

1240

X

GW

2

2

12

MW-8

1422

X

GW

2

2

13

DUP-1

1200

X

GW

2

2

14

EB-01

1100

X

W

2

RELINQUISHED BY

DATE/TIME

RECEIVED BY

DATE/TIME

PROJECT NAME

RECEIPT

1: [Signature]

6-7-13/1200

2: [Signature]

6/7/13 12:00 PM

PROJECT NAME: STI Swainsboro

RECEIPT: Total # of Containers

2: [Signature]

3: [Signature]

PROJECT #: 6125080149.1301

Turnaround Time Request

3: [Signature]

3: [Signature]

SITE ADDRESS: Swainsboro GA

Standard 5 Business Days

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

SEND REPORT TO: Greg Wrenn

Next Business Day Rush

OUT / / VIA:

IN / / VIA:

INVOICE TO: (IF DIFFERENT FROM ABOVE)

Next Business Day Rush

CLIENT FedEx UPS MAIL COURIER

QUOTE #:

PO#:

Same Day Rush (auth req.)

GREYHOUND OTHER

STATE PROGRAM (if any):

E-mail? Y/N; Fax? Y/N

DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blank) O = Other

Page 2 of 56

White Copy - Original; Yellow Copy - Client



AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1306737

Date: 6/7/13 Page 2 of 2

COMPANY: AMEC		ADDRESS: 1075 Big Sandy Rd Ste 100 Kennesaw, GA 30144		ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers			
PHONE: 770-421-3400		FAX: 770-421-3486		PRESERVATION (See codes)															
SAMPLED BY: Daniel Howard/Erin Guillen		SIGNATURE: Daniel Howard												REMARKS					
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	H												
		DATE	TIME				H	H											
1	MW-5	6/6/13	1618	X		GW	2	2											
2	MW-21	6/6/13	1010	X		GW	2	2											4
3	MW-10		1305	X		GW	2	2											4
4	MW-19	6/6/13	1455	X		GW	2	2											4
5	SW-2		1535	X		SW	2												4
6	SW-4		1555	X		SW	2												2
7	SW-5		1615	X		SW	2												2
8	SW-6		1635	X		SW	2												2
9	Temp Blank																		2
10																			
11																			
12																			
13																			
14																			

RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION				RECEIPT	
1: [Signature]		6-7-13/1200		1: [Signature]		6/7/13 12:00 PM		PROJECT NAME: STI Swainsboro				Total # of Containers	
2: [Signature]				2: [Signature]				PROJECT #: 6125080149.1301				Turnaround Time Request: ☒ Standard 5 Business Days ☐ 2 Business Day Rush ☐ Next Business Day Rush ☐ Same Day Rush (auth req.) ☐ Other	
3:				3:				SITE ADDRESS: Swainsboro, GA					
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD OUT / / VIA: IN / / VIA: CLINT FedEx UPS MAIL COURIER GREYHOUND OTHER				SEND REPORT TO: Greg Wrenn				STATE PROGRAM (if any): E-mail? Y/N; Fax? Y/N DATA PACKAGE: I II III IV	
								INVOICE TO: (IF DIFFERENT FROM ABOVE)					
								QUOTE #:				PO#:	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-001

Client Sample ID: TB-01
Collection Date: 6/5/2013 11:00:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/10/2013 17:44	GK
2-Butanone	BRL	50		ug/L	177214	1	06/10/2013 17:44	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/10/2013 17:44	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/10/2013 17:44	GK
Acetone	BRL	50		ug/L	177214	1	06/10/2013 17:44	GK
Benzene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Chloroethane	BRL	10		ug/L	177214	1	06/10/2013 17:44	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Chloromethane	BRL	10		ug/L	177214	1	06/10/2013 17:44	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/10/2013 17:44	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Freon-113	BRL	10		ug/L	177214	1	06/10/2013 17:44	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-001

Client Sample ID: TB-01
Collection Date: 6/5/2013 11:00:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Styrene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Toluene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Vinyl chloride	BRL	2.0		ug/L	177214	1	06/10/2013 17:44	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/10/2013 17:44	GK
Surr: 4-Bromofluorobenzene	93.2	64.6-123		%REC	177214	1	06/10/2013 17:44	GK
Surr: Dibromofluoromethane	95.6	76.6-133		%REC	177214	1	06/10/2013 17:44	GK
Surr: Toluene-d8	95.7	77.8-120		%REC	177214	1	06/10/2013 17:44	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-002

Client Sample ID: MW-11
Collection Date: 6/5/2013 11:52:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/10/2013 18:14	GK
2-Butanone	BRL	50		ug/L	177214	1	06/10/2013 18:14	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/10/2013 18:14	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/10/2013 18:14	GK
Acetone	BRL	50		ug/L	177214	1	06/10/2013 18:14	GK
Benzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Chloroethane	BRL	10		ug/L	177214	1	06/10/2013 18:14	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Chloromethane	BRL	10		ug/L	177214	1	06/10/2013 18:14	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/10/2013 18:14	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Freon-113	BRL	10		ug/L	177214	1	06/10/2013 18:14	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-002

Client Sample ID: MW-11
Collection Date: 6/5/2013 11:52:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Styrene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Toluene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Vinyl chloride	BRL	2.0		ug/L	177214	1	06/10/2013 18:14	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/10/2013 18:14	GK
Surr: 4-Bromofluorobenzene	93.6	64.6-123		%REC	177214	1	06/10/2013 18:14	GK
Surr: Dibromofluoromethane	95.6	76.6-133		%REC	177214	1	06/10/2013 18:14	GK
Surr: Toluene-d8	97.2	77.8-120		%REC	177214	1	06/10/2013 18:14	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 11:26	SH
Ethylene	BRL	7		ug/L	177264	1	06/11/2013 11:26	SH
Methane	52	4		ug/L	177264	1	06/11/2013 11:26	SH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-003

Client Sample ID: MW-7
Collection Date: 6/5/2013 1:52:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/10/2013 18:43	GK
2-Butanone	BRL	50		ug/L	177214	1	06/10/2013 18:43	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/10/2013 18:43	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/10/2013 18:43	GK
Acetone	BRL	50		ug/L	177214	1	06/10/2013 18:43	GK
Benzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Chloroethane	BRL	10		ug/L	177214	1	06/10/2013 18:43	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Chloromethane	BRL	10		ug/L	177214	1	06/10/2013 18:43	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/10/2013 18:43	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Freon-113	BRL	10		ug/L	177214	1	06/10/2013 18:43	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-003

Client Sample ID: MW-7
Collection Date: 6/5/2013 1:52:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Styrene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Toluene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Vinyl chloride	BRL	2.0		ug/L	177214	1	06/10/2013 18:43	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/10/2013 18:43	GK
Surr: 4-Bromofluorobenzene	90.5	64.6-123		%REC	177214	1	06/10/2013 18:43	GK
Surr: Dibromofluoromethane	96.3	76.6-133		%REC	177214	1	06/10/2013 18:43	GK
Surr: Toluene-d8	97.3	77.8-120		%REC	177214	1	06/10/2013 18:43	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 11:31	SH
Ethylene	BRL	7		ug/L	177264	1	06/11/2013 11:31	SH
Methane	940	40		ug/L	177264	10	06/11/2013 11:43	SH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-004

Client Sample ID: MW-6
 Collection Date: 6/5/2013 3:22:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/10/2013 19:13	GK
2-Butanone	BRL	50		ug/L	177214	1	06/10/2013 19:13	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/10/2013 19:13	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/10/2013 19:13	GK
Acetone	BRL	50		ug/L	177214	1	06/10/2013 19:13	GK
Benzene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Chloroethane	BRL	10		ug/L	177214	1	06/10/2013 19:13	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Chloromethane	BRL	10		ug/L	177214	1	06/10/2013 19:13	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/10/2013 19:13	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Freon-113	BRL	10		ug/L	177214	1	06/10/2013 19:13	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-004

Client Sample ID: MW-6
Collection Date: 6/5/2013 3:22:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Styrene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Toluene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Vinyl chloride	BRL	2.0		ug/L	177214	1	06/10/2013 19:13	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/10/2013 19:13	GK
Surr: 4-Bromofluorobenzene	91.7	64.6-123		%REC	177214	1	06/10/2013 19:13	GK
Surr: Dibromofluoromethane	96.4	76.6-133		%REC	177214	1	06/10/2013 19:13	GK
Surr: Toluene-d8	97.7	77.8-120		%REC	177214	1	06/10/2013 19:13	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 11:36	SH
Ethylene	BRL	7		ug/L	177264	1	06/11/2013 11:36	SH
Methane	2200	80		ug/L	177264	20	06/11/2013 11:48	SH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-005

Client Sample ID: MW-20
Collection Date: 6/5/2013 4:46:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/10/2013 20:11	GK
2-Butanone	BRL	50		ug/L	177214	1	06/10/2013 20:11	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/10/2013 20:11	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/10/2013 20:11	GK
Acetone	BRL	50		ug/L	177214	1	06/10/2013 20:11	GK
Benzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Chloroethane	BRL	10		ug/L	177214	1	06/10/2013 20:11	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Chloromethane	BRL	10		ug/L	177214	1	06/10/2013 20:11	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/10/2013 20:11	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Freon-113	BRL	10		ug/L	177214	1	06/10/2013 20:11	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-005

Client Sample ID: MW-20
Collection Date: 6/5/2013 4:46:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Styrene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Toluene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Vinyl chloride	4.8	2.0		ug/L	177214	1	06/10/2013 20:11	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/10/2013 20:11	GK
Surr: 4-Bromofluorobenzene	93.8	64.6-123		%REC	177214	1	06/10/2013 20:11	GK
Surr: Dibromofluoromethane	96.6	76.6-133		%REC	177214	1	06/10/2013 20:11	GK
Surr: Toluene-d8	97.8	77.8-120		%REC	177214	1	06/10/2013 20:11	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 11:56	SH
Ethylene	BRL	7		ug/L	177264	1	06/11/2013 11:56	SH
Methane	8900	400		ug/L	177264	100	06/11/2013 12:12	SH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-006

Client Sample ID: MW-12
Collection Date: 6/5/2013 11:25:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/10/2013 20:40	GK
2-Butanone	BRL	50		ug/L	177214	1	06/10/2013 20:40	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/10/2013 20:40	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/10/2013 20:40	GK
Acetone	BRL	50		ug/L	177214	1	06/10/2013 20:40	GK
Benzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Chloroethane	BRL	10		ug/L	177214	1	06/10/2013 20:40	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Chloromethane	BRL	10		ug/L	177214	1	06/10/2013 20:40	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/10/2013 20:40	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Freon-113	BRL	10		ug/L	177214	1	06/10/2013 20:40	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-006

Client Sample ID: MW-12
Collection Date: 6/5/2013 11:25:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Styrene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Toluene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Vinyl chloride	BRL	2.0		ug/L	177214	1	06/10/2013 20:40	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/10/2013 20:40	GK
Surr: 4-Bromofluorobenzene	93.6	64.6-123		%REC	177214	1	06/10/2013 20:40	GK
Surr: Dibromofluoromethane	94.7	76.6-133		%REC	177214	1	06/10/2013 20:40	GK
Surr: Toluene-d8	97.6	77.8-120		%REC	177214	1	06/10/2013 20:40	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 12:02	SH
Ethylene	BRL	7		ug/L	177264	1	06/11/2013 12:02	SH
Methane	BRL	4		ug/L	177264	1	06/11/2013 12:02	SH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-007

Client Sample ID: MW-9R
Collection Date: 6/5/2013 1:55:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/10/2013 21:10	GK
2-Butanone	BRL	50		ug/L	177214	1	06/10/2013 21:10	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/10/2013 21:10	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/10/2013 21:10	GK
Acetone	BRL	50		ug/L	177214	1	06/10/2013 21:10	GK
Benzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Chloroethane	BRL	10		ug/L	177214	1	06/10/2013 21:10	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Chloromethane	BRL	10		ug/L	177214	1	06/10/2013 21:10	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/10/2013 21:10	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Freon-113	BRL	10		ug/L	177214	1	06/10/2013 21:10	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-007

Client Sample ID: MW-9R
Collection Date: 6/5/2013 1:55:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Styrene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Toluene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Vinyl chloride	BRL	2.0		ug/L	177214	1	06/10/2013 21:10	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/10/2013 21:10	GK
Surr: 4-Bromofluorobenzene	96.1	64.6-123		%REC	177214	1	06/10/2013 21:10	GK
Surr: Dibromofluoromethane	94.1	76.6-133		%REC	177214	1	06/10/2013 21:10	GK
Surr: Toluene-d8	96.3	77.8-120		%REC	177214	1	06/10/2013 21:10	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 12:17	SH
Ethylene	BRL	7		ug/L	177264	1	06/11/2013 12:17	SH
Methane	240	8		ug/L	177264	2	06/11/2013 12:29	SH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-008

Client Sample ID: MW-15
 Collection Date: 6/5/2013 3:10:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/10/2013 21:39	GK
2-Butanone	BRL	50		ug/L	177214	1	06/10/2013 21:39	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/10/2013 21:39	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/10/2013 21:39	GK
Acetone	BRL	50		ug/L	177214	1	06/10/2013 21:39	GK
Benzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Chloroethane	BRL	10		ug/L	177214	1	06/10/2013 21:39	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Chloromethane	BRL	10		ug/L	177214	1	06/10/2013 21:39	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/10/2013 21:39	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Freon-113	BRL	10		ug/L	177214	1	06/10/2013 21:39	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-008

Client Sample ID: MW-15
Collection Date: 6/5/2013 3:10:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Styrene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Toluene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Vinyl chloride	BRL	2.0		ug/L	177214	1	06/10/2013 21:39	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/10/2013 21:39	GK
Surr: 4-Bromofluorobenzene	91.6	64.6-123		%REC	177214	1	06/10/2013 21:39	GK
Surr: Dibromofluoromethane	97.6	76.6-133		%REC	177214	1	06/10/2013 21:39	GK
Surr: Toluene-d8	98.6	77.8-120		%REC	177214	1	06/10/2013 21:39	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 12:23	SH
Ethylene	BRL	7		ug/L	177264	1	06/11/2013 12:23	SH
Methane	6900	200		ug/L	177264	50	06/11/2013 12:44	SH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-009

Client Sample ID: MW-4
Collection Date: 6/5/2013 4:50:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/10/2013 22:08	GK
2-Butanone	BRL	50		ug/L	177214	1	06/10/2013 22:08	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/10/2013 22:08	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/10/2013 22:08	GK
Acetone	BRL	50		ug/L	177214	1	06/10/2013 22:08	GK
Benzene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Chloroethane	BRL	10		ug/L	177214	1	06/10/2013 22:08	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Chloromethane	BRL	10		ug/L	177214	1	06/10/2013 22:08	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/10/2013 22:08	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Freon-113	BRL	10		ug/L	177214	1	06/10/2013 22:08	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-009

Client Sample ID: MW-4
 Collection Date: 6/5/2013 4:50:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Styrene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Toluene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Vinyl chloride	3.1	2.0		ug/L	177214	1	06/10/2013 22:08	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/10/2013 22:08	GK
Surr: 4-Bromofluorobenzene	92.5	64.6-123		%REC	177214	1	06/10/2013 22:08	GK
Surr: Dibromofluoromethane	95.6	76.6-133		%REC	177214	1	06/10/2013 22:08	GK
Surr: Toluene-d8	97.1	77.8-120		%REC	177214	1	06/10/2013 22:08	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 12:49	SH
Ethylene	BRL	7		ug/L	177264	1	06/11/2013 12:49	SH
Methane	1700	80		ug/L	177264	20	06/11/2013 13:02	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-010

Client Sample ID: MW-20D
Collection Date: 6/6/2013 10:45:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/11/2013 12:22	GK
2-Butanone	BRL	50		ug/L	177214	1	06/11/2013 12:22	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/11/2013 12:22	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/11/2013 12:22	GK
Acetone	BRL	50		ug/L	177214	1	06/11/2013 12:22	GK
Benzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Chloroethane	BRL	10		ug/L	177214	1	06/11/2013 12:22	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Chloromethane	BRL	10		ug/L	177214	1	06/11/2013 12:22	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/11/2013 12:22	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Freon-113	BRL	10		ug/L	177214	1	06/11/2013 12:22	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-010

Client Sample ID: MW-20D
Collection Date: 6/6/2013 10:45:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Styrene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Toluene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Vinyl chloride	BRL	2.0		ug/L	177214	1	06/11/2013 12:22	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/11/2013 12:22	GK
Surr: 4-Bromofluorobenzene	92.2	64.6-123		%REC	177214	1	06/11/2013 12:22	GK
Surr: Dibromofluoromethane	95.3	76.6-133		%REC	177214	1	06/11/2013 12:22	GK
Surr: Toluene-d8	98	77.8-120		%REC	177214	1	06/11/2013 12:22	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 12:57	SH
Ethylene	BRL	7		ug/L	177264	1	06/11/2013 12:57	SH
Methane	BRL	4		ug/L	177264	1	06/11/2013 12:57	SH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-011

Client Sample ID: MW-18
Collection Date: 6/6/2013 12:40:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/11/2013 12:51	GK
2-Butanone	BRL	50		ug/L	177214	1	06/11/2013 12:51	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/11/2013 12:51	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/11/2013 12:51	GK
Acetone	BRL	50		ug/L	177214	1	06/11/2013 12:51	GK
Benzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Chloroethane	BRL	10		ug/L	177214	1	06/11/2013 12:51	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Chloromethane	BRL	10		ug/L	177214	1	06/11/2013 12:51	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/11/2013 12:51	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Freon-113	BRL	10		ug/L	177214	1	06/11/2013 12:51	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-011

Client Sample ID: MW-18
Collection Date: 6/6/2013 12:40:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Styrene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Toluene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Vinyl chloride	3.2	2.0		ug/L	177214	1	06/11/2013 12:51	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/11/2013 12:51	GK
Surr: 4-Bromofluorobenzene	90.4	64.6-123		%REC	177214	1	06/11/2013 12:51	GK
Surr: Dibromofluoromethane	97.6	76.6-133		%REC	177214	1	06/11/2013 12:51	GK
Surr: Toluene-d8	98.5	77.8-120		%REC	177214	1	06/11/2013 12:51	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 13:09	SH
Ethylene	BRL	7		ug/L	177264	1	06/11/2013 13:09	SH
Methane	7200	400		ug/L	177264	100	06/11/2013 14:32	SH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-012

Client Sample ID: MW-8
Collection Date: 6/6/2013 2:22:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	470	250		ug/L	177214	50	06/10/2013 15:17	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
1,1-Dichloroethane	110	5.0		ug/L	177214	1	06/11/2013 21:09	GK
1,1-Dichloroethene	1900	250		ug/L	177214	50	06/10/2013 15:17	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/11/2013 21:09	GK
2-Butanone	BRL	50		ug/L	177214	1	06/11/2013 21:09	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/11/2013 21:09	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/11/2013 21:09	GK
Acetone	BRL	50		ug/L	177214	1	06/11/2013 21:09	GK
Benzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Chloroethane	BRL	10		ug/L	177214	1	06/11/2013 21:09	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Chloromethane	BRL	10		ug/L	177214	1	06/11/2013 21:09	GK
cis-1,2-Dichloroethene	2100	250		ug/L	177214	50	06/10/2013 15:17	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/11/2013 21:09	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Freon-113	BRL	10		ug/L	177214	1	06/11/2013 21:09	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-012

Client Sample ID: MW-8
 Collection Date: 6/6/2013 2:22:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Styrene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Toluene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Trichloroethene	730	250		ug/L	177214	50	06/10/2013 15:17	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Vinyl chloride	860	100		ug/L	177214	50	06/10/2013 15:17	GK
1,2-Dichloroethene, Total	2100	250		ug/L	177214	50	06/10/2013 15:17	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/11/2013 21:09	GK
Surr: 4-Bromofluorobenzene	94.9	64.6-123		%REC	177214	50	06/10/2013 15:17	GK
Surr: 4-Bromofluorobenzene	92.7	64.6-123		%REC	177214	1	06/11/2013 21:09	GK
Surr: Dibromofluoromethane	95	76.6-133		%REC	177214	50	06/10/2013 15:17	GK
Surr: Dibromofluoromethane	105	76.6-133		%REC	177214	1	06/11/2013 21:09	GK
Surr: Toluene-d8	96.5	77.8-120		%REC	177214	50	06/10/2013 15:17	GK
Surr: Toluene-d8	96.9	77.8-120		%REC	177214	1	06/11/2013 21:09	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 13:16	SH
Ethylene	10	7		ug/L	177264	1	06/11/2013 13:16	SH
Methane	7900	400		ug/L	177264	100	06/11/2013 14:40	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-013

Client Sample ID: DUP-1
 Collection Date: 6/6/2013 12:00:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	520	250		ug/L	177214	50	06/10/2013 16:46	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
1,1-Dichloroethane	110	5.0		ug/L	177214	1	06/11/2013 21:38	GK
1,1-Dichloroethene	1900	250		ug/L	177214	50	06/10/2013 16:46	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/11/2013 21:38	GK
2-Butanone	BRL	50		ug/L	177214	1	06/11/2013 21:38	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/11/2013 21:38	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/11/2013 21:38	GK
Acetone	BRL	50		ug/L	177214	1	06/11/2013 21:38	GK
Benzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Chloroethane	BRL	10		ug/L	177214	1	06/11/2013 21:38	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Chloromethane	BRL	10		ug/L	177214	1	06/11/2013 21:38	GK
cis-1,2-Dichloroethene	2000	250		ug/L	177214	50	06/10/2013 16:46	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/11/2013 21:38	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Freon-113	BRL	10		ug/L	177214	1	06/11/2013 21:38	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-013

Client Sample ID: DUP-1
 Collection Date: 6/6/2013 12:00:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Styrene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Toluene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Trichloroethene	820	250		ug/L	177214	50	06/10/2013 16:46	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Vinyl chloride	820	100		ug/L	177214	50	06/10/2013 16:46	GK
1,2-Dichloroethene, Total	2000	250		ug/L	177214	50	06/10/2013 16:46	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/11/2013 21:38	GK
Surr: 4-Bromofluorobenzene	92.1	64.6-123		%REC	177214	50	06/10/2013 16:46	GK
Surr: 4-Bromofluorobenzene	92.5	64.6-123		%REC	177214	1	06/11/2013 21:38	GK
Surr: Dibromofluoromethane	98.4	76.6-133		%REC	177214	50	06/10/2013 16:46	GK
Surr: Dibromofluoromethane	106	76.6-133		%REC	177214	1	06/11/2013 21:38	GK
Surr: Toluene-d8	98	77.8-120		%REC	177214	50	06/10/2013 16:46	GK
Surr: Toluene-d8	99.7	77.8-120		%REC	177214	1	06/11/2013 21:38	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 14:46	SH
Ethylene	14	7		ug/L	177264	1	06/11/2013 14:46	SH
Methane	8000	400		ug/L	177264	100	06/11/2013 14:56	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-014

Client Sample ID: EB-01
Collection Date: 6/6/2013 11:00:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/11/2013 11:53	GK
2-Butanone	BRL	50		ug/L	177214	1	06/11/2013 11:53	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/11/2013 11:53	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/11/2013 11:53	GK
Acetone	BRL	50		ug/L	177214	1	06/11/2013 11:53	GK
Benzene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Chloroethane	BRL	10		ug/L	177214	1	06/11/2013 11:53	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Chloromethane	BRL	10		ug/L	177214	1	06/11/2013 11:53	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/11/2013 11:53	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Freon-113	BRL	10		ug/L	177214	1	06/11/2013 11:53	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-014

Client Sample ID: EB-01
 Collection Date: 6/6/2013 11:00:00 AM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Styrene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Toluene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Vinyl chloride	BRL	2.0		ug/L	177214	1	06/11/2013 11:53	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/11/2013 11:53	GK
Surr: 4-Bromofluorobenzene	90.6	64.6-123		%REC	177214	1	06/11/2013 11:53	GK
Surr: Dibromofluoromethane	94.5	76.6-133		%REC	177214	1	06/11/2013 11:53	GK
Surr: Toluene-d8	96.2	77.8-120		%REC	177214	1	06/11/2013 11:53	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-015

Client Sample ID: MW-5
Collection Date: 6/6/2013 4:18:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/11/2013 14:19	GK
2-Butanone	BRL	50		ug/L	177214	1	06/11/2013 14:19	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/11/2013 14:19	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/11/2013 14:19	GK
Acetone	BRL	50		ug/L	177214	1	06/11/2013 14:19	GK
Benzene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Chloroethane	BRL	10		ug/L	177214	1	06/11/2013 14:19	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Chloromethane	BRL	10		ug/L	177214	1	06/11/2013 14:19	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/11/2013 14:19	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Freon-113	BRL	10		ug/L	177214	1	06/11/2013 14:19	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-015

Client Sample ID: MW-5
 Collection Date: 6/6/2013 4:18:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Styrene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Toluene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Vinyl chloride	BRL	2.0		ug/L	177214	1	06/11/2013 14:19	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/11/2013 14:19	GK
Surr: 4-Bromofluorobenzene	91.5	64.6-123		%REC	177214	1	06/11/2013 14:19	GK
Surr: Dibromofluoromethane	93.2	76.6-133		%REC	177214	1	06/11/2013 14:19	GK
Surr: Toluene-d8	99.5	77.8-120		%REC	177214	1	06/11/2013 14:19	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 14:51	SH
Ethylene	BRL	7		ug/L	177264	1	06/11/2013 14:51	SH
Methane	53	4		ug/L	177264	1	06/11/2013 14:51	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-016

Client Sample ID: MW-21
Collection Date: 6/6/2013 10:10:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/11/2013 15:47	GK
2-Butanone	BRL	50		ug/L	177214	1	06/11/2013 15:47	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/11/2013 15:47	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/11/2013 15:47	GK
Acetone	BRL	50		ug/L	177214	1	06/11/2013 15:47	GK
Benzene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Chloroethane	BRL	10		ug/L	177214	1	06/11/2013 15:47	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Chloromethane	BRL	10		ug/L	177214	1	06/11/2013 15:47	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/11/2013 15:47	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Freon-113	BRL	10		ug/L	177214	1	06/11/2013 15:47	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-016

Client Sample ID: MW-21
Collection Date: 6/6/2013 10:10:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Styrene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Toluene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Vinyl chloride	7.1	2.0		ug/L	177214	1	06/11/2013 15:47	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/11/2013 15:47	GK
Surr: 4-Bromofluorobenzene	94.8	64.6-123		%REC	177214	1	06/11/2013 15:47	GK
Surr: Dibromofluoromethane	94.1	76.6-133		%REC	177214	1	06/11/2013 15:47	GK
Surr: Toluene-d8	97.9	77.8-120		%REC	177214	1	06/11/2013 15:47	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	177264	1	06/11/2013 15:02	SH
Ethylene	BRL	7		ug/L	177264	1	06/11/2013 15:02	SH
Methane	7500	400		ug/L	177264	100	06/11/2013 15:14	SH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-017

Client Sample ID: MW-19
 Collection Date: 6/6/2013 2:55:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	33	5.0		ug/L	177214	1	06/11/2013 22:07	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
1,1-Dichloroethane	210	100		ug/L	177214	20	06/11/2013 20:40	GK
1,1-Dichloroethene	450	50		ug/L	177214	10	06/10/2013 17:15	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/11/2013 22:07	GK
2-Butanone	BRL	50		ug/L	177214	1	06/11/2013 22:07	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/11/2013 22:07	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/11/2013 22:07	GK
Acetone	BRL	50		ug/L	177214	1	06/11/2013 22:07	GK
Benzene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Chloroethane	1300	100		ug/L	177214	10	06/10/2013 17:15	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Chloromethane	BRL	10		ug/L	177214	1	06/11/2013 22:07	GK
cis-1,2-Dichloroethene	650	50		ug/L	177214	10	06/10/2013 17:15	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/11/2013 22:07	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Freon-113	BRL	10		ug/L	177214	1	06/11/2013 22:07	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
m,p-Xylene	8.0	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-017

Client Sample ID: MW-19
 Collection Date: 6/6/2013 2:55:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Styrene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Toluene	7.4	5.0		ug/L	177214	1	06/11/2013 22:07	GK
trans-1,2-Dichloroethene	11	5.0		ug/L	177214	1	06/11/2013 22:07	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Trichloroethene	140	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Vinyl chloride	2900	40		ug/L	177214	20	06/11/2013 20:40	GK
1,2-Dichloroethene, Total	650	50		ug/L	177214	10	06/10/2013 17:15	GK
Xylenes, Total	11	5.0		ug/L	177214	1	06/11/2013 22:07	GK
Surr: 4-Bromofluorobenzene	90.5	64.6-123		%REC	177214	1	06/11/2013 22:07	GK
Surr: 4-Bromofluorobenzene	92.7	64.6-123		%REC	177214	10	06/10/2013 17:15	GK
Surr: 4-Bromofluorobenzene	90	64.6-123		%REC	177214	20	06/11/2013 20:40	GK
Surr: Dibromofluoromethane	97.3	76.6-133		%REC	177214	10	06/10/2013 17:15	GK
Surr: Dibromofluoromethane	100	76.6-133		%REC	177214	1	06/11/2013 22:07	GK
Surr: Dibromofluoromethane	93.1	76.6-133		%REC	177214	20	06/11/2013 20:40	GK
Surr: Toluene-d8	97.9	77.8-120		%REC	177214	1	06/11/2013 22:07	GK
Surr: Toluene-d8	96.2	77.8-120		%REC	177214	10	06/10/2013 17:15	GK
Surr: Toluene-d8	95.9	77.8-120		%REC	177214	20	06/11/2013 20:40	GK
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	63	9		ug/L	177264	1	06/11/2013 15:08	SH
Ethylene	370	14		ug/L	177264	2	06/11/2013 15:46	SH
Methane	5300	200		ug/L	177264	50	06/11/2013 15:25	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-018

Client Sample ID: SW-2
 Collection Date: 6/6/2013 3:35:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/11/2013 19:12	GK
2-Butanone	BRL	50		ug/L	177214	1	06/11/2013 19:12	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/11/2013 19:12	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/11/2013 19:12	GK
Acetone	BRL	50		ug/L	177214	1	06/11/2013 19:12	GK
Benzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Chloroethane	BRL	10		ug/L	177214	1	06/11/2013 19:12	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Chloromethane	BRL	10		ug/L	177214	1	06/11/2013 19:12	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/11/2013 19:12	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Freon-113	BRL	10		ug/L	177214	1	06/11/2013 19:12	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-018

Client Sample ID: SW-2
 Collection Date: 6/6/2013 3:35:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Styrene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Toluene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Vinyl chloride	BRL	2.0		ug/L	177214	1	06/11/2013 19:12	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/11/2013 19:12	GK
Surr: 4-Bromofluorobenzene	95.5	64.6-123		%REC	177214	1	06/11/2013 19:12	GK
Surr: Dibromofluoromethane	95.8	76.6-133		%REC	177214	1	06/11/2013 19:12	GK
Surr: Toluene-d8	96.5	77.8-120		%REC	177214	1	06/11/2013 19:12	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-019

Client Sample ID: SW-4
 Collection Date: 6/6/2013 3:55:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
1,4-Dioxane	BRL	150		ug/L	177214	1	06/11/2013 19:42	GK
2-Butanone	BRL	50		ug/L	177214	1	06/11/2013 19:42	GK
2-Hexanone	BRL	10		ug/L	177214	1	06/11/2013 19:42	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177214	1	06/11/2013 19:42	GK
Acetone	BRL	50		ug/L	177214	1	06/11/2013 19:42	GK
Benzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Bromodichloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Bromoform	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Bromomethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Carbon disulfide	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Carbon tetrachloride	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Chlorobenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Chloroethane	BRL	10		ug/L	177214	1	06/11/2013 19:42	GK
Chloroform	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Chloromethane	BRL	10		ug/L	177214	1	06/11/2013 19:42	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Cyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Dibromochloromethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Dichlorodifluoromethane	BRL	10		ug/L	177214	1	06/11/2013 19:42	GK
Ethylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Freon-113	BRL	10		ug/L	177214	1	06/11/2013 19:42	GK
Isopropylbenzene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
m,p-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Methyl acetate	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Methylcyclohexane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Methylene chloride	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-019

Client Sample ID: SW-4
 Collection Date: 6/6/2013 3:55:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Styrene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Tetrachloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Toluene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Trichloroethene	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Vinyl chloride	BRL	2.0		ug/L	177214	1	06/11/2013 19:42	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Xylenes, Total	BRL	5.0		ug/L	177214	1	06/11/2013 19:42	GK
Surr: 4-Bromofluorobenzene	93.5	64.6-123		%REC	177214	1	06/11/2013 19:42	GK
Surr: Dibromofluoromethane	95.2	76.6-133		%REC	177214	1	06/11/2013 19:42	GK
Surr: Toluene-d8	96.4	77.8-120		%REC	177214	1	06/11/2013 19:42	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306737-020

Client Sample ID: SW-5
Collection Date: 6/6/2013 4:15:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
1,4-Dioxane	BRL	150		ug/L	177168	1	06/11/2013 20:11	GK
2-Butanone	BRL	50		ug/L	177168	1	06/11/2013 20:11	GK
2-Hexanone	BRL	10		ug/L	177168	1	06/11/2013 20:11	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177168	1	06/11/2013 20:11	GK
Acetone	BRL	50		ug/L	177168	1	06/11/2013 20:11	GK
Benzene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Bromodichloromethane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Bromoform	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Bromomethane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Carbon disulfide	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Carbon tetrachloride	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Chlorobenzene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Chloroethane	BRL	10		ug/L	177168	1	06/11/2013 20:11	GK
Chloroform	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Chloromethane	BRL	10		ug/L	177168	1	06/11/2013 20:11	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Cyclohexane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Dibromochloromethane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Dichlorodifluoromethane	BRL	10		ug/L	177168	1	06/11/2013 20:11	GK
Ethylbenzene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Freon-113	BRL	10		ug/L	177168	1	06/11/2013 20:11	GK
Isopropylbenzene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
m,p-Xylene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Methyl acetate	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Methylcyclohexane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Methylene chloride	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-020

Client Sample ID: SW-5
 Collection Date: 6/6/2013 4:15:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Styrene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Tetrachloroethene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Toluene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Trichloroethene	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Vinyl chloride	BRL	2.0		ug/L	177168	1	06/11/2013 20:11	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Xylenes, Total	BRL	5.0		ug/L	177168	1	06/11/2013 20:11	GK
Surr: 4-Bromofluorobenzene	88.4	64.6-123		%REC	177168	1	06/11/2013 20:11	GK
Surr: Dibromofluoromethane	96.8	76.6-133		%REC	177168	1	06/11/2013 20:11	GK
Surr: Toluene-d8	96.7	77.8-120		%REC	177168	1	06/11/2013 20:11	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-021

Client Sample ID: SW-6
 Collection Date: 6/6/2013 4:35:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
1,4-Dioxane	BRL	150		ug/L	177168	1	06/10/2013 14:48	GK
2-Butanone	BRL	50		ug/L	177168	1	06/10/2013 14:48	GK
2-Hexanone	BRL	10		ug/L	177168	1	06/10/2013 14:48	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177168	1	06/10/2013 14:48	GK
Acetone	BRL	50		ug/L	177168	1	06/10/2013 14:48	GK
Benzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Bromodichloromethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Bromoform	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Bromomethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Carbon disulfide	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Carbon tetrachloride	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Chlorobenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Chloroethane	BRL	10		ug/L	177168	1	06/10/2013 14:48	GK
Chloroform	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Chloromethane	BRL	10		ug/L	177168	1	06/10/2013 14:48	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Cyclohexane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Dibromochloromethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Dichlorodifluoromethane	BRL	10		ug/L	177168	1	06/10/2013 14:48	GK
Ethylbenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Freon-113	BRL	10		ug/L	177168	1	06/10/2013 14:48	GK
Isopropylbenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
m,p-Xylene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Methyl acetate	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Methylcyclohexane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Methylene chloride	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306737-021

Client Sample ID: SW-6
 Collection Date: 6/6/2013 4:35:00 PM
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Styrene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Tetrachloroethene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Toluene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Trichloroethene	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Vinyl chloride	BRL	2.0		ug/L	177168	1	06/10/2013 14:48	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Xylenes, Total	BRL	5.0		ug/L	177168	1	06/10/2013 14:48	GK
Surr: 4-Bromofluorobenzene	93.6	64.6-123		%REC	177168	1	06/10/2013 14:48	GK
Surr: Dibromofluoromethane	96.6	76.6-133		%REC	177168	1	06/10/2013 14:48	GK
Surr: Toluene-d8	97.1	77.8-120		%REC	177168	1	06/10/2013 14:48	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Amec

Work Order Number 1306737

Checklist completed by Jam B 6/8/13
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 3.2° Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\\Checklists Procedures Sign-Off Templates\\Checklists\\Sample Receipt Checklists\\Sample_Cooler_Receipt_Checklist

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Workorder: 1306737

ANALYTICAL QC SUMMARY REPORT

BatchID: 177168

Sample ID: MB-177168	Client ID:	Units: ug/L				Prep Date: 06/07/2013	Run No: 245530				
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 177168				Analysis Date: 06/07/2013	Seq No: 5145807				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloroethene, Total	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
1,4-Dioxane	BRL	150									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Workorder: 1306737

ANALYTICAL QC SUMMARY REPORT

BatchID: 177168

Sample ID: MB-177168	Client ID:					Units: ug/L	Prep Date: 06/07/2013		Run No: 245530		
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 177168	Analysis Date: 06/07/2013		Seq No: 5145807		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	47.54	0	50.00		95.1	64.6	123				
Surr: Dibromofluoromethane	46.71	0	50.00		93.4	76.6	133				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Workorder: 1306737

ANALYTICAL QC SUMMARY REPORT**BatchID: 177168**

Sample ID: MB-177168	Client ID:	Units: ug/L				Prep Date: 06/07/2013	Run No: 245530				
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 177168				Analysis Date: 06/07/2013	Seq No: 5145807				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Toluene-d8 48.92 0 50.00 97.8 77.8 120

Sample ID: LCS-177168	Client ID:					Units: ug/L	Prep Date: 06/07/2013	Run No: 245530			
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 177168	Analysis Date: 06/07/2013	Seq No: 5145810			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 50.11 5.0 50.00 100 61.1 142
Benzene 46.50 5.0 50.00 93.0 73.5 130
Chlorobenzene 44.53 5.0 50.00 89.1 72.4 123
Toluene 47.09 5.0 50.00 94.2 73.6 130
Trichloroethene 51.02 5.0 50.00 102 70 135
Surr: 4-Bromofluorobenzene 49.01 0 50.00 98.0 64.6 123
Surr: Dibromofluoromethane 48.31 0 50.00 96.6 76.6 133
Surr: Toluene-d8 48.60 0 50.00 97.2 77.8 120

Sample ID: 1306526-002AMS	Client ID:					Units: ug/L	Prep Date: 06/07/2013	Run No: 245530			
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 177168	Analysis Date: 06/07/2013	Seq No: 5145816			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 54.80 5.0 50.00 110 60 168
Benzene 49.46 5.0 50.00 98.9 66.6 148
Chlorobenzene 47.19 5.0 50.00 94.4 71.9 135
Toluene 52.11 5.0 50.00 104 68 149
Trichloroethene 54.19 5.0 50.00 108 71.1 154
Surr: 4-Bromofluorobenzene 47.47 0 50.00 94.9 64.6 123
Surr: Dibromofluoromethane 48.30 0 50.00 96.6 76.6 133
Surr: Toluene-d8 48.57 0 50.00 97.1 77.8 120

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Workorder: 1306737

ANALYTICAL QC SUMMARY REPORT

BatchID: 177168

Sample ID: 1306526-002AMSD	Client ID:	Units: ug/L				Prep Date: 06/07/2013	Run No: 245530				
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 177168				Analysis Date: 06/07/2013	Seq No: 5145818				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	53.94	5.0	50.00		108	60	168	54.80	1.58	18.6	
Benzene	49.57	5.0	50.00		99.1	66.6	148	49.46	0.222	20	
Chlorobenzene	47.32	5.0	50.00		94.6	71.9	135	47.19	0.275	20	
Toluene	50.70	5.0	50.00		101	68	149	52.11	2.74	20	
Trichloroethene	53.11	5.0	50.00		106	71.1	154	54.19	2.01	20	
Surr: 4-Bromofluorobenzene	48.47	0	50.00		96.9	64.6	123	47.47	0	0	
Surr: Dibromofluoromethane	49.79	0	50.00		99.6	76.6	133	48.30	0	0	
Surr: Toluene-d8	48.47	0	50.00		96.9	77.8	120	48.57	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Workorder: 1306737

ANALYTICAL QC SUMMARY REPORT

BatchID: 177214

Sample ID: MB-177214		Client ID:		Units: ug/L		Prep Date: 06/10/2013		Run No: 245658			
SampleType: MBLK		TestCode: Volatile Organic Compounds by GC/MS SW8260B		BatchID: 177214		Analysis Date: 06/10/2013		Seq No: 5146147			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloroethene, Total	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
1,4-Dioxane	BRL	150									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Workorder: 1306737

ANALYTICAL QC SUMMARY REPORT**BatchID: 177214**

Sample ID: MB-177214		Client ID:				Units: ug/L		Prep Date: 06/10/2013		Run No: 245658	
SampleType: MBLK		TestCode: Volatile Organic Compounds by GC/MS SW8260B				BatchID: 177214		Analysis Date: 06/10/2013		Seq No: 5146147	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	47.84	0	50.00			64.6	123				
Surr: Dibromofluoromethane	47.97	0	50.00			76.6	133				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Workorder: 1306737

ANALYTICAL QC SUMMARY REPORT**BatchID: 177214**

Sample ID: MB-177214	Client ID:					Units: ug/L	Prep Date: 06/10/2013	Run No: 245658			
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 177214	Analysis Date: 06/10/2013	Seq No: 5146147			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Toluene-d8 48.22 0 50.00 77.8 120

Sample ID: LCS-177214	Client ID:					Units: ug/L	Prep Date: 06/10/2013	Run No: 245658			
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 177214	Analysis Date: 06/10/2013	Seq No: 5145935			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 50.37 5.0 50.00 0 61.1 142
Benzene 44.95 5.0 50.00 0 73.5 130
Chlorobenzene 42.81 5.0 50.00 0 72.4 123
Toluene 46.62 5.0 50.00 0 73.6 130
Trichloroethene 48.32 5.0 50.00 0 70 135
Surr: 4-Bromofluorobenzene 47.62 0 50.00 0 64.6 123
Surr: Dibromofluoromethane 49.34 0 50.00 0 76.6 133
Surr: Toluene-d8 49.19 0 50.00 0 77.8 120

Sample ID: 1306737-012AMS	Client ID: MW-8	Units: ug/L			Prep Date: 06/10/2013	Run No: 245658					
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 177214			Analysis Date: 06/10/2013	Seq No: 5146747					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 4465 250 2500 1905 102 60 168
Benzene 2314 250 2500 92.5 66.6 148
Chlorobenzene 2170 250 2500 86.8 71.9 135
Toluene 2410 250 2500 96.4 68 149
Trichloroethene 3294 250 2500 732.5 102 71.1 154
Surr: 4-Bromofluorobenzene 2420 0 2500 96.8 64.6 123
Surr: Dibromofluoromethane 2503 0 2500 100 76.6 133
Surr: Toluene-d8 2468 0 2500 98.7 77.8 120

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Workorder: 1306737

ANALYTICAL QC SUMMARY REPORT

BatchID: 177214

Sample ID: 1306737-012AMSD		Client ID: MW-8				Units: ug/L		Prep Date: 06/10/2013		Run No: 245658	
SampleType: MSD		TestCode: Volatile Organic Compounds by GC/MS SW8260B				BatchID: 177214		Analysis Date: 06/10/2013		Seq No: 5146768	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	4706	250	2500	1905	112	60	168	4465	5.25	18.6	
Benzene	2264	250	2500		90.6	66.6	148	2314	2.16	20	
Chlorobenzene	2190	250	2500		87.6	71.9	135	2170	0.940	20	
Toluene	2334	250	2500		93.3	68	149	2410	3.23	20	
Trichloroethene	3187	250	2500	732.5	98.2	71.1	154	3294	3.29	20	
Surr: 4-Bromofluorobenzene	2418	0	2500		96.7	64.6	123	2420	0	0	
Surr: Dibromofluoromethane	2512	0	2500		100	76.6	133	2503	0	0	
Surr: Toluene-d8	2468	0	2500		98.7	77.8	120	2468	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Workorder: 1306737

ANALYTICAL QC SUMMARY REPORT

BatchID: 177264

Sample ID: MB-177264	Client ID:					Units: ug/L	Prep Date: 06/11/2013	Run No: 245792			
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175				BatchID: 177264	Analysis Date: 06/11/2013	Seq No: 5148916			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-177264	Client ID:					Units: ug/L	Prep Date: 06/11/2013	Run No: 245792			
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175				BatchID: 177264	Analysis Date: 06/11/2013	Seq No: 5148920			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	104.7	9	200.0		52.4	38.5	115				
Ethylene	66.95	7	200.0		33.5	25.7	115				
Methane	113.9	4	200.0		56.9	43.3	115				

Sample ID: LCSD-177264	Client ID:					Units: ug/L	Prep Date: 06/11/2013	Run No: 245792			
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175				BatchID: 177264	Analysis Date: 06/11/2013	Seq No: 5148923			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	105.2	9	200.0		52.6	38.5	115	104.7	0.442	20	
Ethylene	67.24	7	200.0		33.6	25.7	115	66.95	0.443	20	
Methane	113.4	4	200.0		56.7	43.3	115	113.9	0.393	20	

Sample ID: 1306737-010BMS	Client ID: MW-20D	Units: ug/L			Prep Date: 06/11/2013	Run No: 245792					
SampleType: MS	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175			BatchID: 177264	Analysis Date: 06/11/2013	Seq No: 5148991				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	111.8	9	200.0		55.9	38.9	115				
Ethylene	73.10	7	200.0		36.5	23.1	115				
Methane	117.8	4	200.0		58.9	38.4	115				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Workorder: 1306737

ANALYTICAL QC SUMMARY REPORT

BatchID: 177264

Sample ID: 1306737-010BMSD		Client ID: MW-20D				Units: ug/L		Prep Date: 06/11/2013		Run No: 245792	
SampleType: MSD		TestCode: GC Analysis of Gaseous Samples SOP-RSK 175				BatchID: 177264		Analysis Date: 06/11/2013		Seq No: 5148994	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	110.9	9	200.0		55.5	38.9	115	111.8	0.736	20	
Ethylene	72.51	7	200.0		36.3	23.1	115	73.10	0.808	20	
Methane	117.1	4	200.0		58.6	38.4	115	117.8	0.547	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 11, 2013

Gregory Wrenn
AMEC E&I, Inc.
1075 Big Shanty Road, NW, Suite 100
Kennesaw GA 30144

TEL: (770) 421-3400
FAX: (770) 421-3486

RE: STI Swainsboro

Dear Gregory Wrenn:

Order No: 1306740

Analytical Environmental Services, Inc. received 1 samples on 6/7/2013 12:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1306740

Date: 6/7/13 Page 1 of 1

COMPANY: A MEC		ADDRESS: 1075 Big Shanty Rd Ste 100 Kennesaw, GA 30144		ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: 770-421-3400		FAX: 770-421-3486		PRESERVATION (See codes)													
SAMPLED BY: Daniel Howard / Ever Guillen		SIGNATURE: <i>[Signature]</i>															
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)											
1	MW-10	6/6/13	1305	X		GW											*
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION				RECEIPT	
1: <i>[Signature]</i>		6-7-13/1200		1: <i>[Signature]</i>		6/7/13 12:00 PM		PROJECT NAME: STI Swainsboro				Total # of Containers	
2: <i>[Signature]</i>				2: <i>[Signature]</i>				PROJECT #: 6125080149.1301				☒ Turnaround Time Request ☐ Standard 5 Business Days ☐ 2 Business Day Rush ☐ Next Business Day Rush ☐ Same Day Rush (auth req.) ☐ Other	
3:				3:				SITE ADDRESS: Swainsboro, GA					
SPECIAL INSTRUCTIONS/COMMENTS: * Tot VOC list of compounds will be analyzed				SHIPMENT METHOD				SEND REPORT TO: Greg Wrenn				STATE PROGRAM (if any):	
				OUT / / VIA:				INVOICE TO:				E-mail? Y/N; Fax? Y/N	
				IN / / VIA:				(IF DIFFERENT FROM ABOVE)				DATA PACKAGE: I II III IV	
				☒ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☐ COURIER ☐ GREYHOUND ☐ OTHER				QUOTE #:				PO#:	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc
Date: 11-Jun-13

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Lab ID: 1306740-001

Client Sample ID: MW-10
Collection Date: 6/6/2013 1:05:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,1-Dichloroethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,1-Dichloroethene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,2-Dibromoethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,2-Dichloroethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,2-Dichloropropane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
1,4-Dioxane	BRL	150		ug/L	177168	1	06/10/2013 14:18	GK
2-Butanone	BRL	50		ug/L	177168	1	06/10/2013 14:18	GK
2-Hexanone	BRL	10		ug/L	177168	1	06/10/2013 14:18	GK
4-Methyl-2-pentanone	BRL	10		ug/L	177168	1	06/10/2013 14:18	GK
Acetone	BRL	50		ug/L	177168	1	06/10/2013 14:18	GK
Benzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Bromodichloromethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Bromoform	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Bromomethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Carbon disulfide	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Carbon tetrachloride	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Chlorobenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Chloroethane	BRL	10		ug/L	177168	1	06/10/2013 14:18	GK
Chloroform	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Chloromethane	BRL	10		ug/L	177168	1	06/10/2013 14:18	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Cyclohexane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Dibromochloromethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Dichlorodifluoromethane	BRL	10		ug/L	177168	1	06/10/2013 14:18	GK
Ethylbenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Freon-113	BRL	10		ug/L	177168	1	06/10/2013 14:18	GK
Isopropylbenzene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
m,p-Xylene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Methyl acetate	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Methylcyclohexane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Methylene chloride	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Jun-13

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Lab ID: 1306740-001

Client Sample ID: MW-10
 Collection Date: 6/6/2013 1:05:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
o-Xylene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Styrene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Tetrachloroethene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Toluene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Trichloroethene	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Trichlorofluoromethane	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Vinyl chloride	BRL	2.0		ug/L	177168	1	06/10/2013 14:18	GK
1,2-Dichloroethene, Total	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Xylenes, Total	BRL	5.0		ug/L	177168	1	06/10/2013 14:18	GK
Surr: 4-Bromofluorobenzene	94.2	64.6-123		%REC	177168	1	06/10/2013 14:18	GK
Surr: Dibromofluoromethane	95.7	76.6-133		%REC	177168	1	06/10/2013 14:18	GK
Surr: Toluene-d8	96.8	77.8-120		%REC	177168	1	06/10/2013 14:18	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Amec

Work Order Number 1306740

Checklist completed by Jam B Date 6/18/13
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 3-20 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\\Checklists Procedures Sign-Off Templates\\Checklists\\Sample Receipt Checklists\\Sample_Cooler_Receipt_Checklist

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Workorder: 1306740

ANALYTICAL QC SUMMARY REPORT

BatchID: 177168

Sample ID: MB-177168	Client ID:	Units: ug/L				Prep Date: 06/07/2013	Run No: 245530				
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 177168				Analysis Date: 06/07/2013	Seq No: 5145807				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloroethene, Total	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
1,4-Dioxane	BRL	150									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc.
 Project Name: STI Swainsboro
 Workorder: 1306740

ANALYTICAL QC SUMMARY REPORT

BatchID: 177168

Sample ID: MB-177168	Client ID:					Units: ug/L	Prep Date: 06/07/2013	Run No: 245530			
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 177168	Analysis Date: 06/07/2013	Seq No: 5145807			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	47.54	0	50.00		95.1	64.6	123				
Surr: Dibromofluoromethane	46.71	0	50.00		93.4	76.6	133				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Workorder: 1306740

ANALYTICAL QC SUMMARY REPORT**BatchID: 177168**

Sample ID: MB-177168	Client ID:	Units: ug/L				Prep Date: 06/07/2013	Run No: 245530				
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 177168				Analysis Date: 06/07/2013	Seq No: 5145807				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Toluene-d8 48.92 0 50.00 97.8 77.8 120

Sample ID: LCS-177168	Client ID:					Units: ug/L	Prep Date: 06/07/2013	Run No: 245530			
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 177168	Analysis Date: 06/07/2013	Seq No: 5145810			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 50.11 5.0 50.00 100 61.1 142
Benzene 46.50 5.0 50.00 93.0 73.5 130
Chlorobenzene 44.53 5.0 50.00 89.1 72.4 123
Toluene 47.09 5.0 50.00 94.2 73.6 130
Trichloroethene 51.02 5.0 50.00 102 70 135
Surr: 4-Bromofluorobenzene 49.01 0 50.00 98.0 64.6 123
Surr: Dibromofluoromethane 48.31 0 50.00 96.6 76.6 133
Surr: Toluene-d8 48.60 0 50.00 97.2 77.8 120

Sample ID: 1306526-002AMS	Client ID:					Units: ug/L	Prep Date: 06/07/2013	Run No: 245530			
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 177168	Analysis Date: 06/07/2013	Seq No: 5145816			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene 54.80 5.0 50.00 110 60 168
Benzene 49.46 5.0 50.00 98.9 66.6 148
Chlorobenzene 47.19 5.0 50.00 94.4 71.9 135
Toluene 52.11 5.0 50.00 104 68 149
Trichloroethene 54.19 5.0 50.00 108 71.1 154
Surr: 4-Bromofluorobenzene 47.47 0 50.00 94.9 64.6 123
Surr: Dibromofluoromethane 48.30 0 50.00 96.6 76.6 133
Surr: Toluene-d8 48.57 0 50.00 97.1 77.8 120

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: AMEC E&I, Inc.
Project Name: STI Swainsboro
Workorder: 1306740

ANALYTICAL QC SUMMARY REPORT

BatchID: 177168

Sample ID: 1306526-002AMSD	Client ID:	Units: ug/L				Prep Date: 06/07/2013	Run No: 245530				
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 177168				Analysis Date: 06/07/2013	Seq No: 5145818				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	53.94	5.0	50.00		108	60	168	54.80	1.58	18.6	
Benzene	49.57	5.0	50.00		99.1	66.6	148	49.46	0.222	20	
Chlorobenzene	47.32	5.0	50.00		94.6	71.9	135	47.19	0.275	20	
Toluene	50.70	5.0	50.00		101	68	149	52.11	2.74	20	
Trichloroethene	53.11	5.0	50.00		106	71.1	154	54.19	2.01	20	
Surr: 4-Bromofluorobenzene	48.47	0	50.00		96.9	64.6	123	47.47	0	0	
Surr: Dibromofluoromethane	49.79	0	50.00		99.6	76.6	133	48.30	0	0	
Surr: Toluene-d8	48.47	0	50.00		96.9	77.8	120	48.57	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-89823-1

Client Project/Site: STI Properties

For:

AMEC Environment & Infrastructure, Inc.

1075 Big Shanty Road, NW

Suite 100

Kennesaw, Georgia 30144

Attn: Greg Wrenn



Authorized for release by:

5/1/2013 12:35:37 PM

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: STI Properties

TestAmerica Job ID: 680-89823-1

Job ID: 680-89823-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: AMEC Environment & Infrastructure, Inc.

Project: STI Properties

Report Number: 680-89823-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/30/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample System Eff (680-89823-1) was analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/30/2013.

Sample Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: STI Properties

TestAmerica Job ID: 680-89823-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89823-1	System Eff	Water	04/30/13 10:25	04/30/13 12:58

Method Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: STI Properties

TestAmerica Job ID: 680-89823-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: STI Properties

TestAmerica Job ID: 680-89823-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: STI Properties

TestAmerica Job ID: 680-89823-1

Client Sample ID: System Eff

Lab Sample ID: 680-89823-1

Date Collected: 04/30/13 10:25

Matrix: Water

Date Received: 04/30/13 12:58

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	1.0	ug/L			04/30/13 16:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			04/30/13 16:54	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/30/13 16:54	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			04/30/13 16:54	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			04/30/13 16:54	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/30/13 16:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			04/30/13 16:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			04/30/13 16:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			04/30/13 16:54	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/30/13 16:54	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			04/30/13 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		70 - 130		04/30/13 16:54	1
Dibromofluoromethane	105		70 - 130		04/30/13 16:54	1
Toluene-d8 (Surr)	110		70 - 130		04/30/13 16:54	1

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: STI Properties

TestAmerica Job ID: 680-89823-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-274960/7

Matrix: Water

Analysis Batch: 274960

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	1.0	ug/L			04/30/13 13:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	ug/L			04/30/13 13:10	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/30/13 13:10	1
1,2-Dichloroethane	1.0	U	1.0	0.10	ug/L			04/30/13 13:10	1
1,1-Dichloroethene	1.0	U	1.0	0.11	ug/L			04/30/13 13:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/30/13 13:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.20	ug/L			04/30/13 13:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.50	ug/L			04/30/13 13:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.13	ug/L			04/30/13 13:10	1
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/30/13 13:10	1
Vinyl chloride	1.0	U	1.0	0.18	ug/L			04/30/13 13:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		70 - 130		04/30/13 13:10	1
Dibromofluoromethane	105		70 - 130		04/30/13 13:10	1
Toluene-d8 (Surr)	102		70 - 130		04/30/13 13:10	1

Lab Sample ID: LCS 680-274960/4

Matrix: Water

Analysis Batch: 274960

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	51.1		ug/L		102	47 - 148
cis-1,2-Dichloroethene	50.0	52.3		ug/L		105	78 - 127
1,1-Dichloroethane	50.0	50.5		ug/L		101	69 - 132
1,2-Dichloroethane	50.0	49.4		ug/L		99	75 - 120
1,1-Dichloroethene	50.0	55.3		ug/L		111	73 - 134
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	71 - 127
trans-1,2-Dichloroethene	50.0	51.8		ug/L		104	78 - 130
1,1,1-Trichloroethane	50.0	50.9		ug/L		102	76 - 126
1,1,2-Trichloroethane	50.0	51.9		ug/L		104	69 - 127
Trichloroethene	50.0	52.9		ug/L		106	80 - 120
Vinyl chloride	50.0	50.7		ug/L		101	58 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	107		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Lab Sample ID: LCSD 680-274960/5

Matrix: Water

Analysis Batch: 274960

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	50.0	50.5		ug/L		101	47 - 148	1	40
cis-1,2-Dichloroethene	50.0	52.2		ug/L		104	78 - 127	0	30
1,1-Dichloroethane	50.0	49.7		ug/L		99	69 - 132	2	30

TestAmerica Savannah

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: STI Properties

TestAmerica Job ID: 680-89823-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-274960/5

Matrix: Water

Analysis Batch: 274960

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	50.0	53.2		ug/L		106	75 - 120	7	30
1,1-Dichloroethene	50.0	49.5		ug/L		99	73 - 134	11	30
1,1,1,2-Tetrachloroethane	50.0	54.9		ug/L		110	71 - 127	10	30
trans-1,2-Dichloroethene	50.0	50.6		ug/L		101	78 - 130	2	30
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	76 - 126	0	30
1,1,2-Trichloroethane	50.0	56.4		ug/L		113	69 - 127	8	30
Trichloroethene	50.0	54.0		ug/L		108	80 - 120	2	30
Vinyl chloride	50.0	48.4		ug/L		97	58 - 141	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	106		70 - 130
Toluene-d8 (Surr)	107		70 - 130

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: STI Properties

TestAmerica Job ID: 680-89823-1

GC/MS VOA

Analysis Batch: 274960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89823-1	System Eff	Total/NA	Water	8260B	
LCS 680-274960/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-274960/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-274960/7	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: STI Properties

TestAmerica Job ID: 680-89823-1

Client Sample ID: System Eff
Date Collected: 04/30/13 10:25
Date Received: 04/30/13 12:58

Lab Sample ID: 680-89823-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	274960	04/30/13 16:54	AJMC	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client Information		Sampler: P. GAZZO		Lab PM:		Carrier Tracking No(s):		SOC No:							
Client Contact GREG WRON		Phone: 770-421-3472		E-Mail:				Page:							
Company: Amcc		Analysis Requested						STL Job #:							
Address: 1075 BIG SHAWY RD NW		Due Date Requested:		Total Number of Containers						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify) Other:					
City: KENNESAW GA		TAT Requested (days): RUSH 24 Hr													
State, Zip: 30144		PO #: C0124 01327													
Phone: 770 421 3472		WO #:													
Project Name: GREG WRON		Project #: 6125 08 0149													
Site: STI Properties		SSOW #:													
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix (W = water, S=Solid, O=Waste/Oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
system EFF		4/30/13		10:28		G		W		X		X		See Attached sheet	
														Rush Turn 24 Hr's	
														5.8°C 680-89823	
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown										☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)										Special Instructions/QC Requirements: RUSH 24 Hr See Attached sheet for Analysis					
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:							
Relinquished by: [Signature]				Date/Time: 4/30/13 11:28		Company: Amcc		Received by: [Signature]				Date/Time: 4/30/13 11:28		Company: TA	
Relinquished by: [Signature]				Date/Time: 4/30/13 12:58		Company: TA		Received by: [Signature]				Date/Time:		Company:	
Relinquished by: [Signature]				Date/Time:		Company:		Received by: [Signature]				Date/Time: 4/30/13 12:58		Company: TA	
Custody Seals Intact: ? Yes ? No		Custody Seal No.:								Cooler Temperature(s) °C and Other Remarks:					

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 680-89823-1

Login Number: 89823

List Source: TestAmerica Savannah

List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: STI Properties

TestAmerica Job ID: 680-89823-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

APPENDIX B

POTW DISCHARGE DOCUMENTATION

Rogero, Robert P

From: Orson.Hall@CH2M.com
Sent: Friday, April 05, 2013 12:21 PM
To: Rogero, Robert P
Subject: RE: RE POTW discharge for groundwater

We have discussed your discharging into the WWTP and have no problems with this. Please advise me of total volumes. We have no specific number for these constituents. Are they being tested in appendix 2 ; Drinking water standards.

From: Rogero, Robert P [<mailto:Robert.Rogero@amec.com>]
Sent: Friday, April 05, 2013 10:30 AM
To: Hall, Orson/SWB
Subject: RE POTW discharge for groundwater
Importance: High

Orson,
I am following up on my email last week about constituents and concentrations we need to sample for to determine "clean". We have scheduled our event for April 30th, 2013 and would like to dispose of the water probably on Thursday, May 2, 2013.

The only thing I would like to verify is what do you consider "clean" and what constituents beside those listed below will you be concerned with. We are hoping that the air stripper will remove the volatiles down to concentrations below the method detection limit of the laboratory for a Volatile Organic Carbon (VOC) sample. As per the table I sent you, the following VOC's have been reported in groundwater. Please let me know if you have any specific numeric values you would consider "clean" and what standard we should base clean upon.

Chloroethane
1,1,2,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
1,1-Dichloroethene
1,1-Dichloroethane
1,2-Dichloroethane
cis -1,2-Dichloroethene
trans -1,2-Dichloroethene
Vinyl Chloride

Thanks,

Bob Rogero

Robert P. Rogero, P.G.
Senior Geologist
AMEC
Environment & Infrastructure
1075 Big Shanty Road
Kennesaw, GA 30144
Phone: (770) 499-6844
Mobile: (404) 514-6843
Fax: (770) 421-3486
Robert.Rogero@AMEC.Com
AMEC.com

APPENDIX C

WELL PURGING/GROUNDWATER SAMPLING LOGS

JOB NO. _____ SHEET 1 OF 1
PHASE SAMPLING TASK _____
JOB NAME STI SWAINSBOURD, GA
BY EVER GUILLEN DATE _____
CHECKED BY _____ DATE _____



3200 Town Point Drive NW Suite 100
Kennesaw, GA 30144
+1 (770) 421-3400 Fax +1 (770) 421-3486

730 Cal

800 to site

810 @ site

820 Gauge -

910 Rain

930 Gauge

1030 ~~1030~~ Set @ 12

1050 ~~1050~~ Set up

1125 - Sample 12

1145 Dispose of Purge water

1200 Set up @ MW-9R

1220 Begin Purging MW-9R

1355 Collect MW-9R Sample

1415 Dispose of Purge water

1430 Set up @ MW-15

1430 Begin Purging MW-15

1435 first readings

1510 Collect MW-15 Sample

1520 Dispose of Purge water

1530 Set up @ MW-4

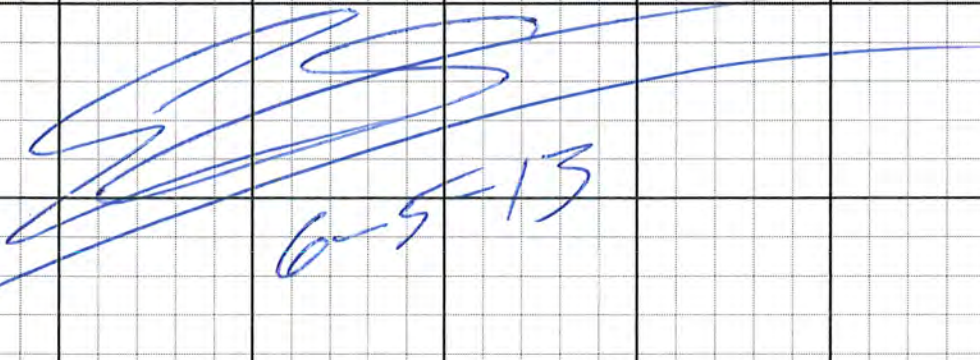
1535 Begin Purging MW-4

1650 Collect Sample

1655 Dispose of Purge water

1700 Clean the work area

1720 off site


6-5-13

JOB NO. _____ SHEET 1 OF 1
 PHASE SAMPLING TASK _____
 JOB NAME STI SWAINSBORO
 BY EVER GUINN DATE 6-6-13
 CHECKED BY _____ DATE _____



3200 Town Point Drive NW Suite 100
 Kennesaw, GA 30144
 +1 (770) 421-3400 Fax +1 (770) 421-3486

0700	CALIBRATE instrument
0740	MOB to store for Purge Water Containers
0800	MOB to site
0815	Set up Purge Water Drum
0835	Set up @ MW-21
0845	Dispose of MW-4 Purge Water into Drum
0850	Begin Purging MW-21
1010	Collected MW-21 Sample
1030	Dispose of Purge Water
1050	Set up @ MW-10
1100	MW-10 HAS 0.03' of PRODUCT @ TOP of Well. DTP = 6.21', DTW = 6.24' and DTB = 9.94' PRODUCT is GOLDEN YELLOW in COLOR - looks like vegetable oil BUT is THICKER - the Product smeared the interface Probe - Attempted to Collect the product from the Probe - ONLY able to Collect a few drops - No Product Noted @ Bottom of the Well - Attempted to recover Product using a Bailor - Product Smeared the outside of the bailer and dissipated - No Product Was recovered in the bailer. was Placed the Water from the Bailor into A BUCKET - Water Shows a sheen but No free Product - Placed Peristaltic Tubing at the Bottom of the Well and Pumped - No Product Was Pumped from Well Bottom - attempted to "skim" Product using Peristaltic Pump - recovered approx 500ML of water into a Poly Sample Bottle - No Product Noted in that Sample.
1200	Set tubing @ $\pm 1.0'$ above the Bottom of the well & began Purging Well for Sampling
1305	Collected MW-10 Sample
1310	will allow well to recover and then attempt to collect a product Sample - Decoded Equipment -
1325	Set up @ MW-19
1335	Begin Purging MW-19
1455	Collected MW-19 Sample -
1500	Surged & Purged one gallon of water to remove sediment from the Well.
1510	Dispose of Purge Water
1520	MOB to Surface water Sample Location
1535	Collected SW-2, 1655-SW-4, 1615-SW-5, 1635-SW-6
1700	off site

AMEC Engineering and Consulting
Groundwater Sampling Form

Page 1 of 1

Project/No. STI Swainsboro

Well

NW-11

Date _____

6/5/13

Screen Setting

Measuring Point Description

Casing

Diameter (inches)

24

Static

Water Level 4.10

Measured Width

Well Materials

PVC

ST. Steel

Total depth 7.30

Pump On:

Pump

Intake:

Purge Method

Pump Off:

Volume

Volumes Purged $3.2 \times 0.163 = 0.52 \times 3$

Centrifugal

Sample Time:

1152

Submersible

Other Peristaltic pump

Bailer Type:

Sampled

By: D. Howard

[illegible]

Project/No. STI Swainsboro

Project/No. STI Swainsboro

Well

MW-7

Date _____

6/5/13

Screen Setting

Measuring Point Description

TOC

Casing

Diameter (inches)

 2°

Static

Measured Width

Well Materials

PVC

ST. Steel

Water Level

3.50

Total depth

9.82

Pump On:

Pump

Intake:

Purge Method

Pump Off:

Volumes Purged

$$6,32 \times 0.163 = 1.03 \times 3$$

Centrifugal

Sample Time:

1352

Submersible

Other

Peristaltic pump

Bailer Type:

Sampled

Bv:

D Howard

[illegible]

AMEC Engineering and Consulting
Groundwater Sampling Form

Page 1 of 1

Project/No. STI Swainsboro

Well MW-6

Date 6/5/13

Screen Setting	Measuring Point Description
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Casing Diameter (inches) 2"

Static Water Level 4.16' Measured Width

Well Materials	PVC
	ST. Steel

Total depth 12.94' Pump On:

Pump
Intake:

Purge Method: Pump Off:

Volumes Purged $8.84 \times 0.163 = 1.44 \times 3$

Centrifugal _____ Sample Time: 1522

4.3 gal

Submersible

Sampled By: D Howard

Other Peristaltic pump Bailer Type:

[illegible]

AMEC Engineering and Consulting
Groundwater Sampling Form

Page 1 of 1

Project/No. STI Swainsboro

Well MW-20

Date 6/5/13

Screen Setting	Measuring Point Description
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Casing Diameter (inches) 2"

Static Water Level 5.18 Measured Width

Well Materials	PVC
	<u>ST. Steel</u>

Total depth 16.29 Pump On:

Pump

Purge Method: Pump Off:

Volumes Purged $11.11 \times 0.163 = 1.8 \times 3$

Centrifugal _____ Sample Time: 1646

5.4 gal

Submersible

Sampled 0.1

Other Peristaltic pump Bailer Type: _____

By: D Howard

[illegible]

AMEC Engineering and Consulting
Groundwater Sampling Form

Page 1 of 1

Project/No. _____ Well MW-12 Date 6-5-13

Screen Setting	Measuring Point Description	Casing Diameter (inches)
		2"

Static Water Level	4.71	Measured Width	$2.44 \times 0.17 = 0.41 \times 3 = 1.24$	Well Materials	PVC
					ST. Steel

Total depth 7.15' Pump On: _____ Pump _____

Purge Method Pump Off: Volumes Purged 1.5 Gal

Centrifugal _____ Sample Time: 1125
Submersible _____ Sampled ✓

Other PERISTALTIC Bailer Type: EVER GUILLER

[illegible]

STI

Page 1 of 1

Well

Measuring Point Description

3.0'

11.81

Pump Off:

Sample Time:

Other

[illegible]

STI

Page 1 of 1

Well MW-15

2

$$10,02 - 6,59 = 3,43 \times 0,17 = 0,58 \times 3 = 1,75$$

10.02

1.75 Gal

1510

Sampled

PERISTALTIC

TURB

STI

Page 1 of 1

MW-4

2

$$14.96 - 2.98 = 11.98 \times 0.17 = 2.04 \times 3 = 6.11$$

14.96

Pump Off:

1650

PERISTALTIC

EVER GUILLEN

AMEC Engineering and Consulting
Groundwater Sampling Form

Page 1 of 1

Project/No. STI Swainsboro

Well MW-20D

Date 6/6/13

Screen Setting	Measuring Point Description
1	1
2	2
3	3
4	4
5	5
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82	82
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86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Casing Diameter (inches) 2"

Static Water Level 7.31 Measured Width

Well Materials	PVC
	ST. Steel

Total depth 34.45 Pump On:

Pump
Intake:

Purge Method: Pump Off:

Volumes Purged $\frac{27.14 \times 0.163}{13.3} = 4.42 \times 3$

Centrifugal _____ Sample Time: 10 45

Submersible

Other Peristaltic pump Bailer Type:

Sampled By: D Howard

[illegible]

AMEC Engineering and Consulting
Groundwater Sampling Form

Page 1 of 1

Project/No. STI Swainsboro

Well AW-18

Date 6/6/13

Screen Setting	Measuring Point Description
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
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19	19
20	20
21	21
22	22
23	23
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89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Casing
Diameter (inches) 2"

Static Water Level	3.17	Measured Width
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Well Materials	PVC
	ST. Steel

Total depth 14.25 Pump On:

Pump

Purge Method: Pump Off:

Volumes Purged $11.08 \times 0.163 \approx 1.81 \times 3$

Centrifugal _____ Sample Time: 1240

5.4

Submersible

Sampled

Other Peristaltic pump Bailer Type:

By: D Howard

[illegible]

AMEC Engineering and Consulting
Groundwater Sampling Form

Page 1 of 1

Project/No. STI Swainsboro

Well MW-8
Dup-1 (Time 1200)

Date 6/6/13

Screen Setting	Measuring Point Description
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
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19	19
20	20
21	21
22	22
23	23
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97	97
98	98
99	99
100	100

Casing Diameter (inches) 2"

Static Water Level 3.36 Measured Width

Well Materials	PVC
	ST. Steel

Total depth 11.38 Pump On:

Pump
Intake:

Purge Method: Pump Off:

Volumes Purged $8.02 \times 0.163 = 1.3 \times 3$

Centrifugal _____ Sample Time: 1422

3.9 gal

Submersible

Sampled By: D Howard

Other Peristaltic pump Bailer Type: _____

[illegible]

AMEC Engineering and Consulting
Groundwater Sampling Form

Page 1 of 1

Project/No. STI Swainsboro

Well MW-5

Date 6/6/13

Screen Setting	Measuring Point Description
1	1
2	2
3	3
4	4
5	5
6	6
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91	91
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93	93
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95	95
96	96
97	97
98	98
99	99
100	100

Casing Diameter (inches) 2"

Static Water Level	6.49	Measured Width	
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Well Materials	PVC
	ST. Steel

Total depth 17.97 Pump On:

Pump Intake: 11.4

Purge Method Pump Off:

Volumes Purged $\frac{11.48 \times 0.163}{5.7 \text{ gal}} = 1.9 \times 3$

Centrifugal _____ Sample Time: 1618

Submersible

Other Peristaltic pump Bailer Type: _____

Sampled By: D Howard

[illegible]

STI

Page 1 of 1

Project/No. _____ Well MW-21 Date 6-6-13

Screen Setting	Measuring Point Description	Casing Diameter (inches)
		2

Static	Measured Width	Well Materials	PVC
Water Level <u>5.18</u>	$17.75 - 5.18 = 12.57 \times 0.17 = 2.14 \times 3 = 6.41$		ST. Steel

Total depth 17.75 Pump On: _____ Pump _____

Purge Method	Pump Off:	Volumes Purged	6.75 Gals.
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Centrifugal _____ Sample Time: 1010

Submersible _____
Other PERISTALTIC Bailer Type: _____
Sampled By: EVER SUICLOW

[illegible]

STI

Page 1 of 1

Time	Minutes Elapsed	Rate (gpm)	DTW	Gallons Purged	pH	Cond. ms/cm	TEMP. (C)	ORP	DO	REMARKS
										TURB
1340		200	4.19	0.25	5.66	0.286	17.76	37.4	2.06	375.2
1345		400	4.28	0.75	5.66	0.287	17.61	30.0	0.92	145.4
1355			4.32	1.75	5.66	0.287	17.59	25.4	0.65	41.9
1400			4.32	2.25	5.68	0.290	17.62	18.9	0.53	29.7
1405			4.32	2.75	5.69	0.292	17.63	17.0	0.52	48.4
1410			4.32	3.25	5.74	0.315	17.71	3.3	0.49	30.5
1415			4.32	3.75	5.80	0.375	17.72	-13.0	0.44	20.0
1420			4.32	4.25	5.81	0.390	17.71	-15.8	0.43	22.3
1425			4.32	4.75	5.82	0.407	17.69	-20.0	0.41	18.5
1430			4.32	5.25	5.84	0.413	17.66	-21.3	0.41	19.1
1435			4.32	5.75	5.85	0.430	17.63	-25.9	0.38	18.4
1440			4.32	6.25	5.85	0.431	17.65	-26.1	0.38	17.7
1445			4.32	6.75	5.85	0.432	17.68	-27.5	0.38	33.1
1450			4.32	7.25	5.85	0.434	17.61	-28.4	0.37	33.6
1455	Collected sample									
										Note - water was cloudy - would clear then back to cloudy - THE SAMPLE LOOKS very clear - HIGH TURBIDITY Readings Due to sediment in the flow cell.

YSI CALIBRATION FORM

Date: 6/5/13
 Time: 0725

Prepared by: Daniel Howard
 Checked by: _____

Pine Sonde ID: 015971
 Sonde Serial No: _____
 Pine Handset ID: 019036
 Handset Serial No: _____
 Battery Voltage %: 90
 Circuit Board SN: _____

DISSOLVED OXYGEN (DO)	NOTES	INITIAL CALIBRATION	End of Shift CAL CHECK
Current Air Temperature, °C (meter reading):		22.71	
Current Barometric Pressure (mmHg): (from on-site barometer - convert to mmHg if needed. If handset barometer has been calibrated and confirmed, then use the handset pressure.)	Conversion Factor: 30.02 in. Hg x 25.4 = mmHg		
If using NOAA cited pressure, then correct pressure for elevation to enter into YSI DO calibration:	Ex: 30.02 in Hg x 25.4 = mmHg; Subtract 2.54 mmHg for every 100 ft. above sea level. A well elevation may be useful to determine nearby elevation.	737.9	
Theoretical DO (mg/L) from DO Table: (Based on current temperature and pressure)			
DO concentration before calibration (mg/L):		8.37	
DO concentration after calibration (mg/L):		8.38	N/A
% Recovery (actual/theory x 100)	Range is 90% to 110 % recovery		
DO Charge (DO ch): For Rapid Pulse Polarographic (RPP) DO Only (membrane/o-ring type)	Acceptable Range is 25 to 75		N/A
DO or ODO Gain: (should be between 0.7 and 1.4 for RPP or .85 to 1.15 for ODO)	Exit calibration menu and go to Advanced/Cal Constants	1.07472	N/A

SPECIFIC CONDUCTIVITY: (Calibrate before pH; pH buffers are conductive)	NOTES	VALUES	VALUES
Calibration Standard Used (mS/cm)	Lot # <u>10020</u> Expiration: <u>11/13</u>	1.413	
Current Solution Temperature, °C (meter reading):		24.67	
Conductivity before Calibration (mS/cm ⁵)		1.393	
Conductivity AFTER Calibration (mS/cm ⁵)		1.413	N/A
Conductivity Cell Constant (unitless)		4.8362	N/A

* Be sure conductivity cell vem is submerged and gently move sonde up and down in solution to ensure bubbles are dislodged from conductivity cell)

Notes:

pH	NOTES	VALUES	VALUES
pH 7.0 value before calibration:	Lot # <u>2208038</u> Expiration: <u>7/14</u>	7.04	
pH 7.0 value after calibration:	Solution Temperature: <u>25.00</u>	7.00 25.00	N/A
pH 7.0 mV:	Range is -50 to +50 mV	-26.9	

YSI CALIBRATION FORM

pH 10.0 value before calibration:	Lot # 2211639 Expiration: 5/14	9.90	
pH 10.0 value after calibration:	Solution Temperature: 24.13	9.99	N/A
pH 10.0 mV:	Range is -130 to -230 mV	-191.3	
pH 4.0 value before calibration:	Lot # 2210176 Expiration: 9/14	3.96	
pH 4.0 value after calibration:	Solution Temperature: 25.22	4.08	N/A
pH 4.0 mV:	Range is 130 to 230 mV	146.9	

NOTE: Do not empty cell. The 0 NTU turbidity standard is the pH 4.0 from Pine Environmental.

Turbidity	NOTES	Before Cal.	After Cal.	VALUES
0 NTU	C 257538 12/13 Lot # Expiration:	~1.1	0.0	
100 NTU	Lot # Expiration:			
126 NTU standard if other than above	13A 257962 Lot # Expiration: 1/14	106.9	126.0	

ORP	NOTES	VALUES	VALUES
Note: Use YSI 3682 Zobell Solution	Lot # 5245 Expiration: 11/17	240.0	
ORP before calibration		225.7	
Calculated ORP at ____ degrees C			
ORP after calibration		240.1	N/A

Notes:

Follow instructions included with the Zobell Solution for reconstituting the ORP standard.

Standard expiration is 6 months from reconstitution and should be marked on the bottle.

Each bottle contains dry potassium chloride (75%), Potassium Ferrocyanide Trihydrate (14%) and Potassium Ferrocyanide (11%) by weight.

Wear safety glasses and gloves when handling this product.

Do not mix this standard with acid, or harmful by-products may be formed, including hydrocyanide gas.

Dispose of unused standard in accordance with all Federal, State, and Local Environmental Regulations and Laws.

ORP Standard Calculation: $E(\text{Ag/AgCl electrode}) = 0.231 + 0.0013 (25 - T \text{ {Celcius}})$ Volts (multiply by 1,000 to get mV)Example: $\text{ORP mV} = 0.231 + 0.0013 (25 - 11.3)$ $= 0.24881 \text{ Volts} \times 1,000$ $= 248.81 \text{ mV}$ This is the value that gets entered into the YSI handset as the standard for the current temp.

Notes:

YSI CALIBRATION SUCCESSFUL? (Yes or No)

Prepared By/Date: D Howard 6/5/13
Checked By/Date:

ATTACHMENT 1

YSI CALIBRATION FORM

Date: 5/6/13
 Time: 0720

Prepared by: D Howard
 Checked by: _____

Pine Sonde ID: 015971
 Sonde Serial No: _____
 Pine Handset ID: 0193 019 036
 Handset Serial No: _____
 Battery Voltage %: 80
 Circuit Board SN: _____

DISSOLVED OXYGEN (DO)	NOTES	INITIAL CALIBRATION	End of Shift CAL CHECK
Current Air Temperature, °C (meter reading):		22.87	
Current Barometric Pressure (mmHg): (from on-site barometer - convert to mmHg if needed. If handset barometer has been calibrated and confirmed, then use the handset pressure.)	Conversion Factor: 30.02 in. Hg x 25.4 = mmHg	29.88	
If using NOAA cited pressure, then correct pressure for elevation to enter into YSI DO calibration:	Ex: 30.02 in Hg x 25.4 = mmHg; Subtract 2.54 mmHg for every 100 ft. above sea level. A well elevation may be useful to determine nearby elevation.	753.8	
Theoretical DO (mg/L) from DO Table: (Based on current temperature and pressure)			
DO concentration before calibration (mg/L):		8.35	
DO concentration after calibration (mg/L):		8.53	N/A
% Recovery (actual/theory x 100)	Range is 90% to 110 % recovery		
DO Charge (DO ch): For Rapid Pulse Polarographic (RPP) DO Only (membrane/o-ring type)	Acceptable Range is 25 to 75		N/A
DO or ODO Gain: (should be between 0.7 and 1.4 for RPP or .85 to 1.15 for ODO)	Exit calibration menu and go to Advanced/Cal Constants	1.0977	N/A

SPECIFIC CONDUCTIVITY: (Calibrate before pH; pH buffers are conductive)	NOTES	VALUES	VALUES
Calibration Standard Used (mS/cm)	Lot # <u>10020</u> Expiration: <u>11/13</u>	1.413	
Current Solution Temperature, °C (meter reading):		23.77	
Conductivity before Calibration (mS/cm ²)		1.406	
Conductivity AFTER Calibration (mS/cm ²)		1.413	N/A
Conductivity Cell Constant (unitless)		4.85812	N/A

* Be sure conductivity cell vent is submerged and gently move sonde up and down in solution to ensure bubbles are dislodged from conductivity cell)

Notes:

pH	NOTES	VALUES	VALUES
pH 7.0 value before calibration:	<u>2208038</u>	6.94	
	Lot # _____ Expiration: <u>7/14</u>		
pH 7.0 value after calibration:	Solution Temperature: <u>24.01</u>	7.00	N/A
pH 7.0 mV:	Range is -50 to +50 mV	-23.7	

YSI CALIBRATION FORM

pH 10.0 value before calibration:	Lot # 2211639 Expiration: 5/14	9.88	
pH 10.0 value after calibration:	Solution Temperature: 24.09	9.98	N/A
pH 10.0 mV:	Range is -130 to -230 mV	-189.2	
pH 4.0 value before calibration:	Lot # 2210176 Expiration: 9/14	4.02	
pH 4.0 value after calibration:	Solution Temperature: 24.13	4.00	N/A
pH 4.0 mV:	Range is 130 to 230 mV	148.6	

NOTE: Do not empty cell. The 0 NTU turbidity standard is the pH 4.0 from Pine Environmental.

Turbidity	NOTES	Before Cal.	After Cal.	VALUES
0 NTU	Lot # C257530 Expiration: 12/13	-0.9	0.0	
100 NTU	Lot # Expiration:	144.0	14	
126 NTU standard if other than above	Lot # 13A257962 Expiration: 1/14	144.0	126.0	

ORP	NOTES	VALUES	VALUES
Note: Use YSI 3682 Zobell Solution	Lot # 5245 Expiration: 11/17	240	
ORP before calibration		241.0	
Calculated ORP at ____ degrees C			
ORP after calibration		240.0	N/A

Notes:

Follow instructions included with the Zobell Solution for reconstituting the ORP standard.
 Standard expiration is 6 months from reconstitution and should be marked on the bottle.
 Each bottle contains dry potassium chloride (75%), Potassium Ferrocyanide Trihydrate (14%) and Potassium Ferrocyanide (11%) by weight.
 Wear safety glasses and gloves when handling this product.
 Do not mix this standard with acid, or harmful by-products may be formed, including hydrocyanide gas.
 Dispose of unused standard in accordance with all Federal, State, and Local Environmental Regulations and Laws.

ORP Standard Calculation: $E(\text{Ag/AgCl electrode}) = 0.231 + 0.0013 (25 - T \text{ {Celcius}})$ Volts (multiply by 1,000 to get mV)Example: $\text{ORP mV} = 0.231 + 0.0013 (25 - 11.3)$ $= 0.24881 \text{ Volts} \times 1,000$ $= 248.81 \text{ mV}$ This is the value that gets entered into the YSI handset as the standard for the current temp.

Notes:

YSI CALIBRATION SUCCESSFUL? (Yes or No)

Prepared By/Date: D. Howard 6/6/13
Checked By/Date:

YSI CALIBRATION FORM

Date: 6-5-13
 Time: _____
 Prepared by: EVER GUILLEN
 Checked by: _____

Pine Sonde ID: 20629
 Sonde Serial No: _____
 Pine Handset ID: 11389
 Handset Serial No: _____
 Battery Voltage %: 1211
 Circuit Board SN: _____

DISSOLVED OXYGEN (DO)	NOTES	INITIAL CALIBRATION	End of Shift CAL CHECK
Current Air Temperature, °C (meter reading):			
Current Barometric Pressure (mmHg): (from on-site barometer - convert to mmHg if needed. If handset barometer has been calibrated and confirmed, then use the handset pressure.)	Conversion Factor: 30.02 in. Hg x 25.4 = mmHg		756.1
If using NOAA cited pressure, then correct pressure for elevation to enter into YSI DO calibration:	Ex: 30.02 in Hg x 25.4 = mmHg; Subtract 2.54 mmHg for every 100 ft. above sea level. A well elevation may be useful to determine nearby elevation.		—
Theoretical DO (mg/L) from DO Table: (Based on current temperature and pressure)			
DO concentration before calibration (mg/L):			8.43
DO concentration after calibration (mg/L):			N/A 8.62
% Recovery (actual/theory x 100)	Range is 90% to 110 % recovery		—
DO Charge (DO ch): For Rapid Pulse Polarographic (RPP) DO Only (membrane/o-ring type)	Acceptable Range is 25 to 75		N/A
DO or ODO Gain: (should be between 0.7 and 1.4 for RPP or .85 to 1.15 for ODO)	Exit calibration menu and go to Advanced/Cal Constants		N/A 1.03365

SPECIFIC CONDUCTIVITY* (Calibrate before pH; pH buffers are conductive)	NOTES	VALUES	VALUES
Calibration Standard Used (mS/cm)	Lot # <u>10020</u> Expiration: <u>11/13</u>		1.413
Current Solution Temperature, °C (meter reading):			21.09
Conductivity before Calibration (mS/cm ²)			1.447
Conductivity AFTER Calibration (mS/cm ²)			N/A 1.413
Conductivity Cell Constant (unitless)			N/A 4.69836

* Be sure conductivity cell vent is submerged and gently move sonde up and down in solution to ensure bubbles are dislodged from conductivity cell)

Notes:

pH	NOTES	VALUES	VALUES
pH 7.0 value before calibration:	Lot # <u>2208038</u> Expiration: <u>7/14</u>		7.07
pH 7.0 value after calibration:	Solution Temperature:		N/A 7.00
pH 7.0 mV:	Range is -50 to +50 mV		-14.9

ATTACHMENT 1

YSI CALIBRATION FORM

pH 10.0 value before calibration:	Lot # 2211639 Expiration: 5/14		9.93
pH 10.0 value after calibration:	Solution Temperature: 21.21		N/A 10.0
pH 10.0 mV:	Range is -130 to -230 mV		-178.2
pH 4.0 value before calibration:	Lot # 2210176 Expiration: 9/14		3.87
pH 4.0 value after calibration:	Solution Temperature: 21.27		N/A 3.98
pH 4.0 mV:	Range is 130 to 230 mV		155.0

NOTE: Do not empty cell. The 0 NTU turbidity standard is the pH 4.0 from Pine Environmental.

Turbidity	NOTES	Before Cal.	After Cal.	VALUES
0 NTU	Lot # 257530 Expiration: 12/13	-0.3	0.0	
100 NTU	Lot # Expiration:	—	—	—
_____ NTU standard if other than above	Lot # Expiration:	—	—	—

ORP	NOTES	VALUES	VALUES
Note: Use YSI 3682 Zobell Solution	Lot # 5245 Expiration: 11/17		
ORP before calibration			223.8
Calculated ORP at _____ degrees C			240
ORP after calibration			N/A 240.1

Notes:

Follow instructions included with the Zobell Solution for reconstituting the ORP standard.

Standard expiration is 6 months from reconstitution and should be marked on the bottle.

Each bottle contains dry potassium chloride (75%), Potassium Ferrocyanide Trihydrate (14%) and Potassium Ferrocyanide (11%) by weight.

Wear safety glasses and gloves when handling this product.

Do not mix this standard with acid, or harmful by-products may be formed, including hydrocyanide gas.

Dispose of unused standard in accordance with all Federal, State, and Local Environmental Regulations and Laws.

ORP Standard Calculation: $E(\text{Ag/AgCl electrode}) = 0.231 + 0.0013 (25 - T \text{ (Celsius)})$ Volts (multiply by 1,000 to get mV)Example: $\text{ORP mV} = 0.231 + 0.0013 (25 - 11.3)$ $= 0.24881 \text{ Volts} \times 1,000$ $= 248.81 \text{ mV}$ This is the value that gets entered into the YSI handset as the standard for the current temp.

Notes:

YSI CALIBRATION SUCCESSFUL? (Yes or No)

Prepared By/Date: _____

Checked By/Date: _____

YSI CALIBRATION FORM

Date: 6-6-13
 Time: _____

Prepared by: EVER GUILLEN
 Checked by: _____

Pine Sonde ID: _____
 Sonde Serial No: _____
 Pine Handset ID: _____
 Handset Serial No: _____
 Battery Voltage %: _____
 Circuit Board SN: _____

DISSOLVED OXYGEN (DO)	NOTES	INITIAL CALIBRATION	End of Shift CAL CHECK
Current Air Temperature, °C (meter reading):		20.62	
Current Barometric Pressure (mmHg): (from on-site barometer - convert to mmHg if needed. If handset barometer has been calibrated and confirmed, then use the handset pressure.)	Conversion Factor: 30.02 in. Hg x 25.4 = mmHg	751.1	
If using NOAA cited pressure, then correct pressure for elevation to enter into YSI DO calibration:	Ex: 30.02 in Hg x 25.4 = mmHg; Subtract 2.54 mmHg for every 100 ft. above sea level. A well elevation may be useful to determine nearby elevation.	-	
Theoretical DO (mg/L) from DO Table: (Based on current temperature and pressure)		-	
DO concentration before calibration (mg/L):		9.03	
DO concentration after calibration (mg/L):		8.88	N/A
% Recovery (actual/theory x 100)	Range is 90% to 110 % recovery		
DO Charge (DO ch): For Rapid Pulse Polarographic (RPP) DO Only (membrane/o-ring type)	Acceptable Range is 25 to 75		N/A
DO or ODO Gain: (should be between 0.7 and 1.4 for RPP or .85 to 1.15 for ODO)	Exit calibration menu and go to Advanced/Cal Constants	1.01699	N/A

SPECIFIC CONDUCTIVITY* (Calibrate before pH; pH buffers are conductive)	NOTES	VALUES	VALUES
Calibration Standard Used (mS/cm)	Lot # _____ Expiration: _____	1.413	
Current Solution Temperature, °C (meter reading):		17.47	
Conductivity before Calibration (mS/cm ²)		1.379	
Conductivity AFTER Calibration (mS/cm ²)		1.413	N/A
Conductivity Cell Constant (unitless)		4.81132	N/A

* Be sure conductivity cell vent is submerged and gently move sonde up and down in solution to ensure bubbles are dislodged from conductivity cell)

Notes:

pH	NOTES	VALUES	VALUES
pH 7.0 value before calibration:	Lot # _____ Expiration: _____	7.09	
pH 7.0 value after calibration:	Solution Temperature: <u>18.65</u>	7.00	N/A
pH 7.0 mV:	Range is -50 to +50 mV	-17.6	

ATTACHMENT 1

YSI CALIBRATION FORM

_____, Georgia

pH 10.0 value before calibration:	Lot # _____ Expiration: _____	9.87	
pH 10.0 value after calibration:	Solution Temperature: 18.86	10.00	N/A
pH 10.0 mV:	Range is -130 to -230 mV	-175.6	
pH 4.0 value before calibration:	Lot # _____ Expiration: _____	3.72	
pH 4.0 value after calibration:	Solution Temperature: 19.21	3.96	N/A
pH 4.0 mV:	Range is 130 to 230 mV	155.4	

NOTE: Do not empty cell. The 0 NTU turbidity standard is the pH 4.0 from Pine Environmental.

Turbidity	NOTES	Before Cal.	After Cal.	VALUES
0 NTU	Lot # _____ Expiration: _____	0.5	0.0	
100 NTU	Lot # _____ Expiration: _____			
____ NTU standard if other than above	Lot # _____ Expiration: _____			

ORP	NOTES	VALUES	VALUES
Note: Use YSI 3682 Zobell Solution	Lot # _____ Expiration: _____	-	
ORP before calibration		238.9	
Calculated ORP at ____ degrees C	19.29	240.0	
ORP after calibration		240.2	N/A

Notes:

Follow instructions included with the Zobell Solution for reconstituting the ORP standard.

Standard expiration is 6 months from reconstitution and should be marked on the bottle.

Each bottle contains dry potassium chloride (75%), Potassium Ferrocyanide Trihydrate (14%) and Potassium Ferrocyanide (11%) by weight.

Wear safety glasses and gloves when handling this product.

Do not mix this standard with acid, or harmful by-products may be formed, including hydrocyanide gas.

Dispose of unused standard in accordance with all Federal, State, and Local Environmental Regulations and Laws.

ORP Standard Calculation: $E(\text{Ag/AgCl electrode}) = 0.231 + 0.0013 (25 - T \text{ {Celcius}})$ Volts (multiply by 1,000 to get mV)Example: $\text{ORP mV} = 0.231 + 0.0013 (25 - 11.3)$ $= 0.24881 \text{ Volts} \times 1,000$ $= 248.81 \text{ mV}$ This is the value that gets entered into the YSI handset as the standard for the current temp.

Notes:

YSI CALIBRATION SUCCESSFUL? (Yes or No)

Prepared By/Date: _____

Checked By/Date: _____

6/5/13 STI Swainsboro
0725 Calibrated YSI 6920V2 at
hotel

0800 Tailgate safety meeting

Daniel Howard

Ever Guillen

Put cone out when working along
road way. Watch out for rigs when
working on site. Slip trip & Fall,
0830 We will take water level first

ID	DTW(ft)	TD(ft)	
MW-3	2.98		New lock & cover
MW-19	3.83	16.45	New lock
MW-4	2.25	14.75	well cap not on well
MW-21	5.46	17.55	New lock
MW-8	3.36	11.38 11.38	on
MW-18	3.17	14.25	
MW-20D	7.31	34.45	
MW-20	5.18	16.29	New lock
MW-11	4.10	7.30	5-ft bottom
MW-6	4.16	12.94	
MW-16D	5.85		
MW-2D	8.83		
MW-1	9.74		

Rite in the Rain.

6/5/13	STI	Swainsboro	
<u>ID</u>	<u>DTW</u>	<u>TD</u>	<u>comment</u>
MW-2	5.83		
MW-12	4.71	7.15	
MW-10	6.47		
MW-1D	8.17		
MW-9A	3.0	11.81	
MW-15	6.59	10.02	
MW-7	3.50	9.82	hasp is broke on protective casing
MW-5	6.49	17.97	manhole cover needs to be reset in concrete
1100 Trip Blank TB-01 in cooler			
1115 Setup at well MW-11 to purge well + sample			
1123 Began purging well			
1152 Collected sample MW-11. Analyses VOC list + meth, ethane, ethene, H_2			
1250 Setup at well MW-7			
1310 Began purging well			
1352 Collected sample MW-7			
VOC list + meth, ethane, ethene, H_2			
1405 Setup at well MW-6			
1425 Began purging well			
1522 Collected sample MW-6 Analyses VOC list + H_2 , methane, ethane, ethene			

D Howard

6/5/13 STI Swainsboro
 1540 Setup at well MW-20
 1550 Began purging well
 1646 Collected sample MW-20
 Analyses: VOC list, H_2 , meth, ethene + ethane
 1715 Clean up and left the site

D Howard

6/6/13 STI Swainsboro
 0720 Calibrated YSI 6920V2
 0755 Finished calibrating YSI
 0810 Health & Safety meeting.

Daniel Howard
 Ever Guillen

Slip, trip & Fall. Change of rain
 concrete can be slippery. Left
 with your legs not back

0830 Setup at well MW-20D

0848 Began purging well

1045 Removed 4.3 gal from well, all
 parameters stable, Water level was
 dropping below pump limits

1100 Collected sample MW-20D

Analyses: VOC list, meth, ethane
 & ethene, H₂

1100 Collected equipment blank

EB-01. Analyses: VOC list

Equipment blank of tubing: teflon
 & silicon tubing

1115 Setup at well MW-18

1130 Began purging well

1240 Collected sample MW-18

Analyses: VOC list, H₂, meth, ethane & ethene

D. Howard

6/6/13 STI Swainsboro

1315 Setup at well MW-8 a duplicate
 sample will be collected at this
 well

1330 Began purging well

1422 Collected sample MW-8 and

Dup-1 (1200 Time) Analyses:

VOC list, H₂, methane, ethane,
 ethene

1450 Setup at MW-5.

1505 Began purging well

1618 Collected sample MW-5 analyses

VOC list, H₂, meth, ethane, ethene

Collection time for surface
 water sample. Analysis: VOC list

1535 SW-2

1555 SW-4

1615 SW-5

1635 SW-6

1630 Dump purge water and
 in drum and closed drum

1650 Cleaned up equipment

1715 Left the site

D. Howard

Rite in the Rain.

6/7/13 STI Swainsboro

0800 Went by the site to check
well MW-10 for product.

No measurable product in well
took sample of water.

0820 Iced down samples.

Ever will take samples to
lab. MW-10 sample is
on ~~seper~~ COC by itself.

Analysis: Total VOC list
by 8260B.

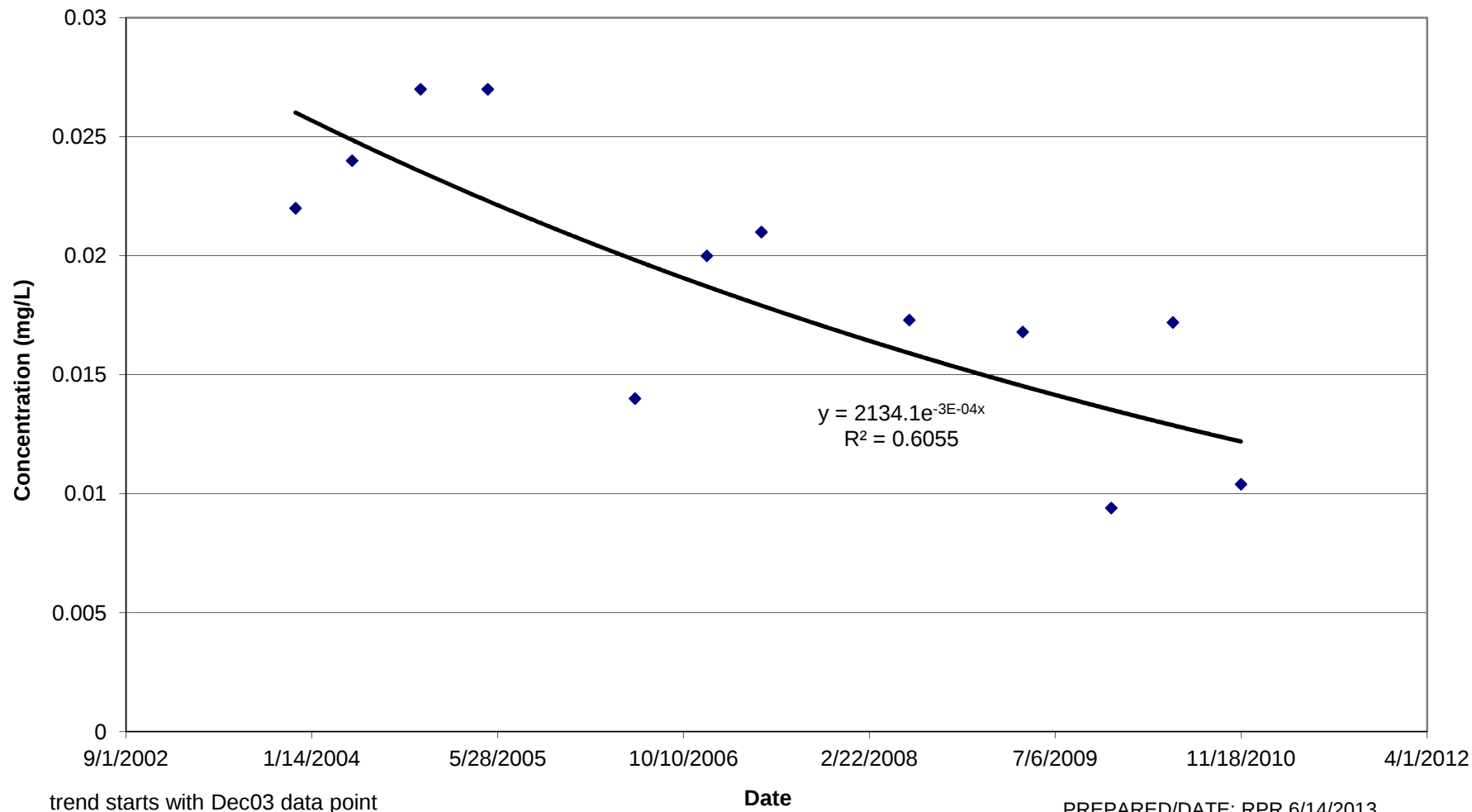
0900 Got on road to head back
to office

0830 Drum has $\approx 3/4$ full
with purge water. Labeled
and dated.

APPENDIX D

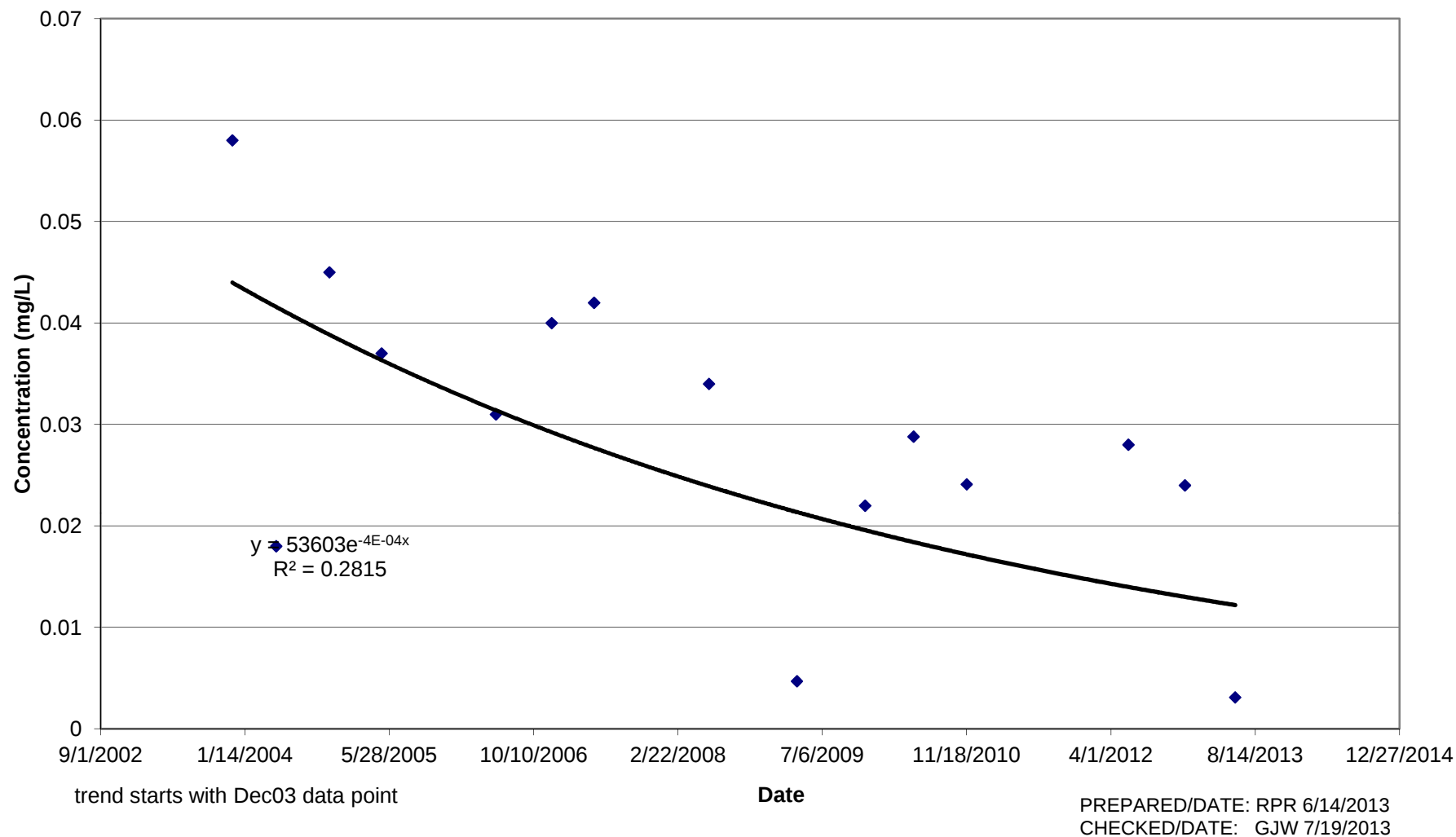
VOC CONCENTRATION TREND GRAPHS

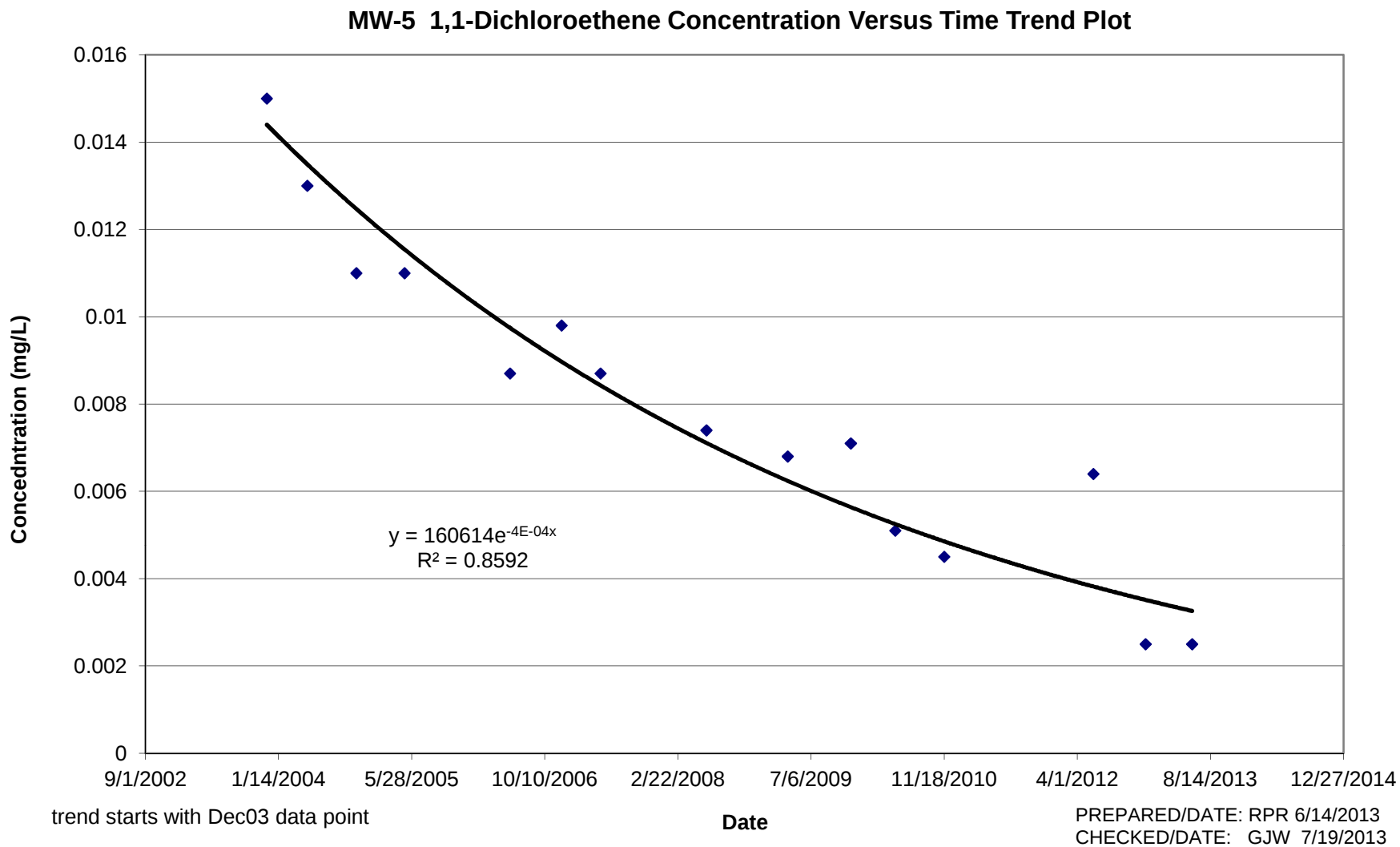
MW-3 Vinyl Chloride Concentration Versus Time Trend Plot



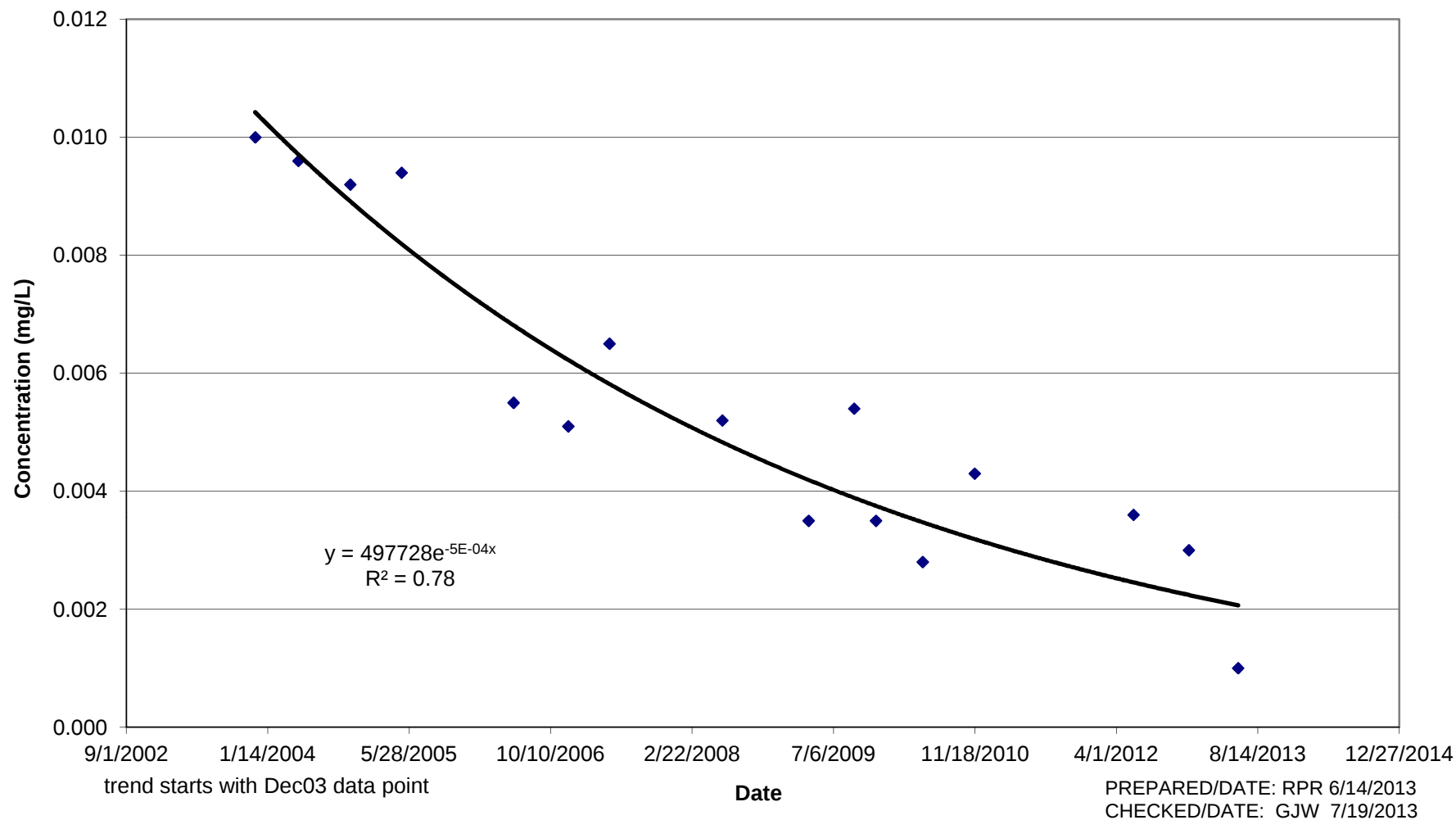
PREPARED/DATE: RPR 6/14/2013
CHECKED/DATE: GJW 7/19/2013

MW-4 Vinyl Chloride Concentration Versus Time Trend Plot

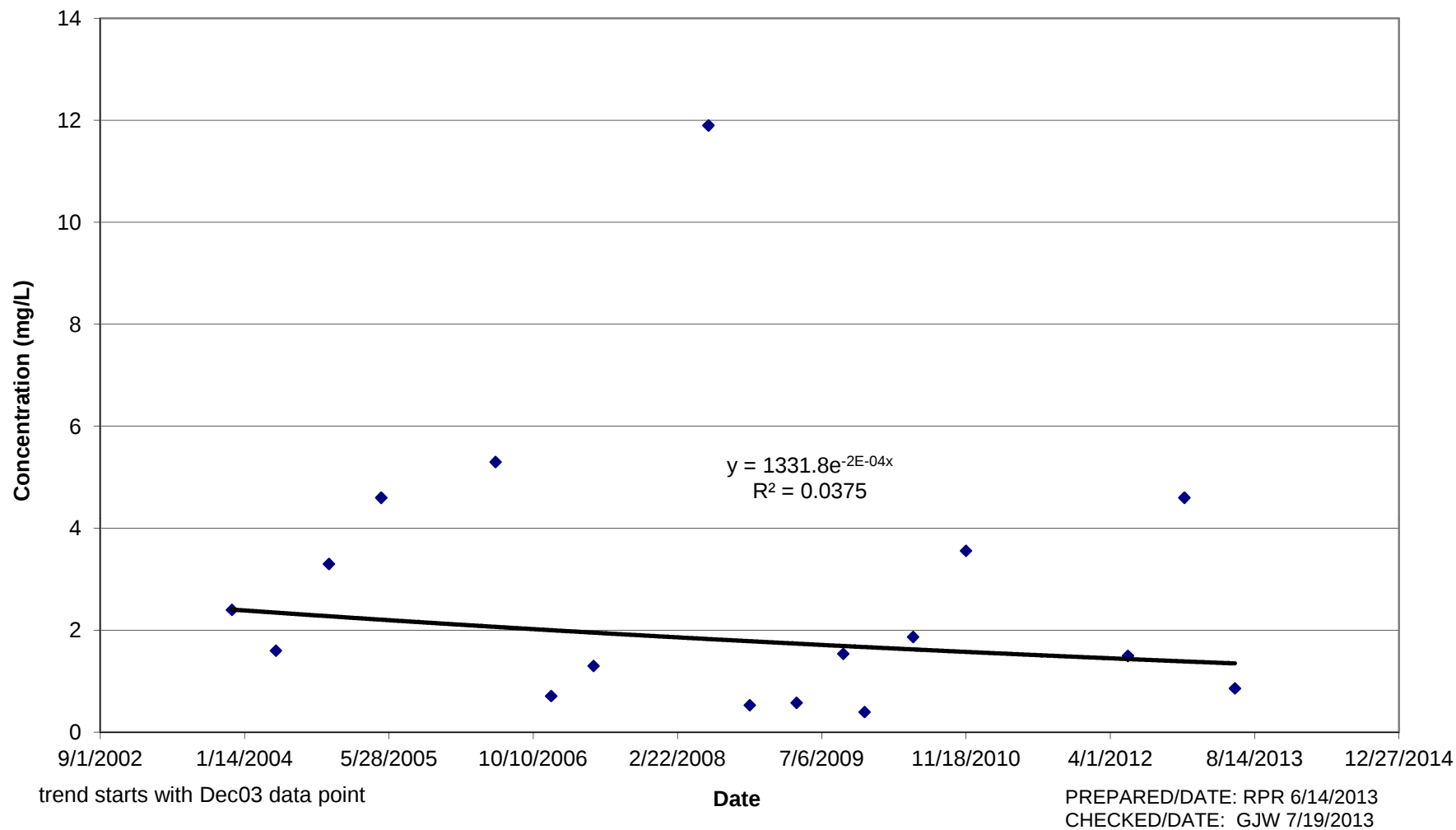


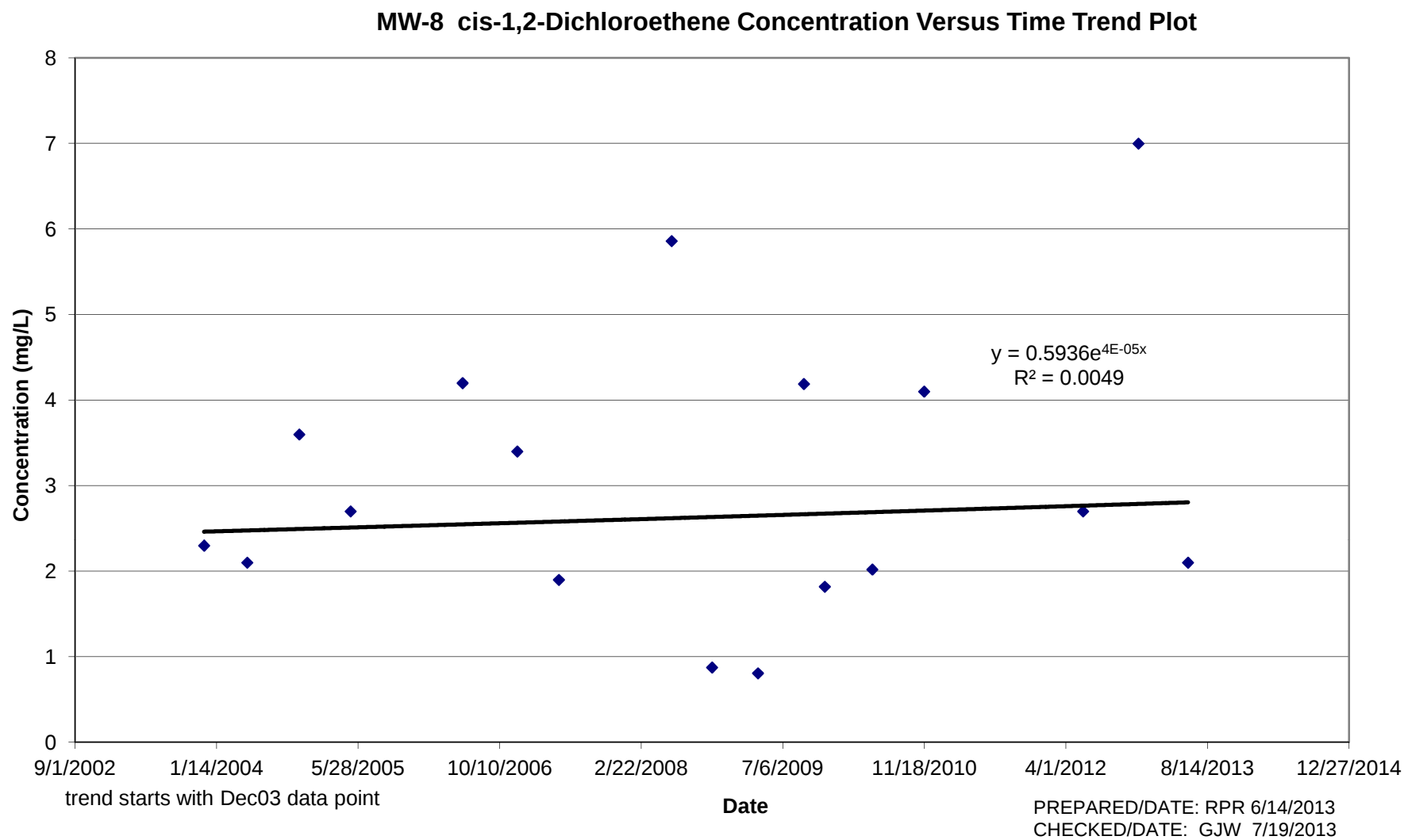


MW-6 Vinyl Chloride Concentration Versus Time Trend Plot

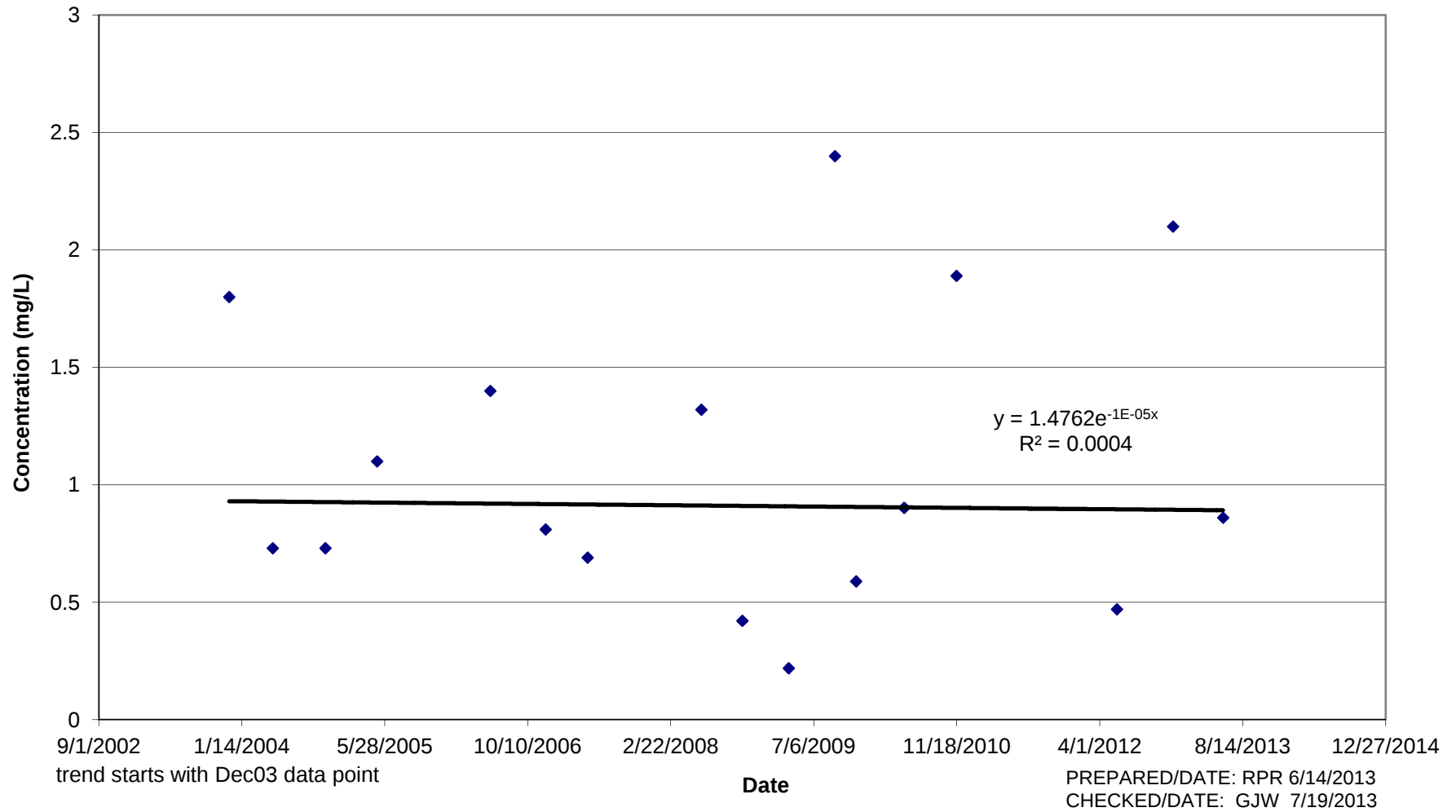


MW-8 Trichloroethene Concentration Versus Time Trend Plot

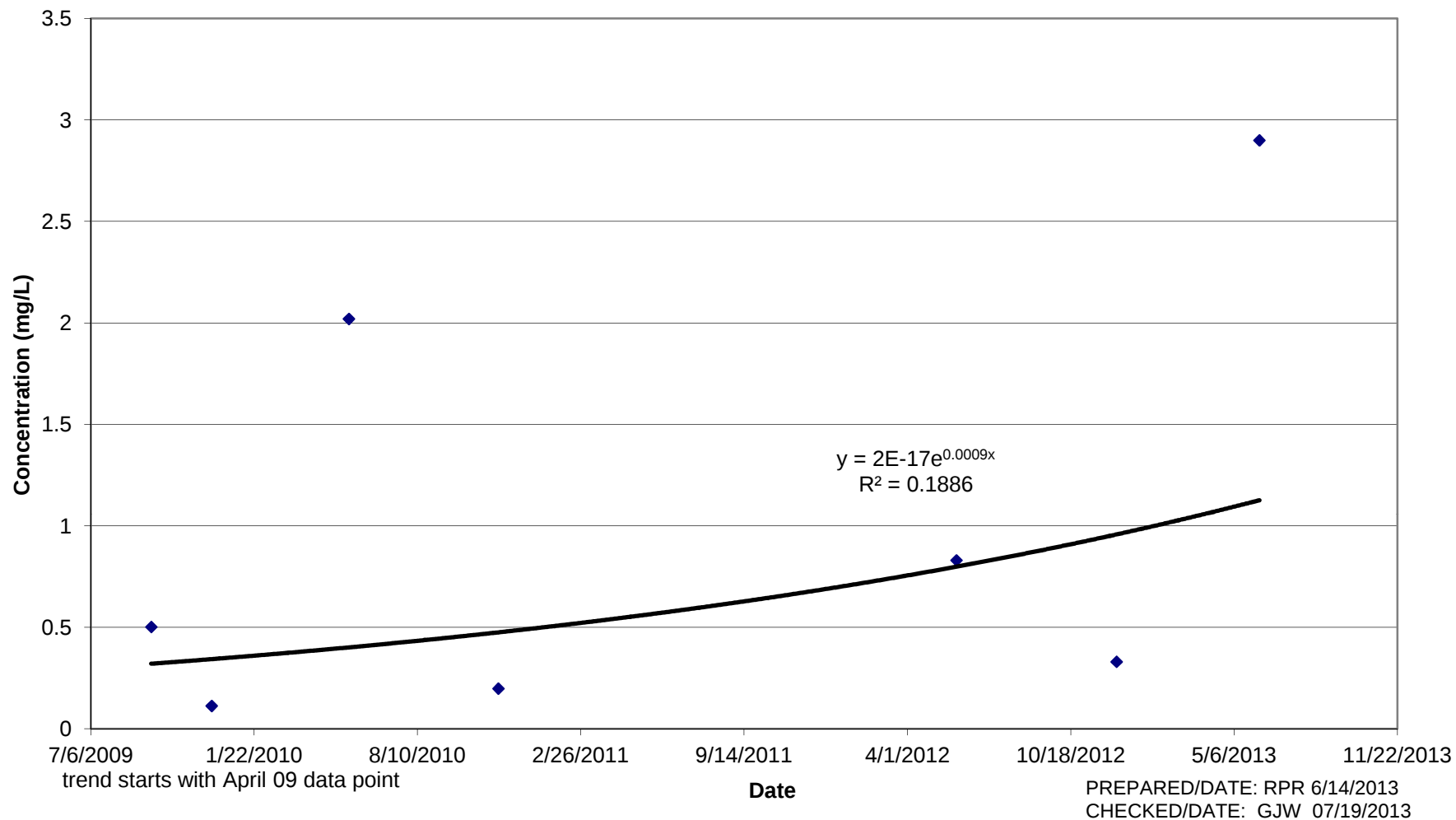




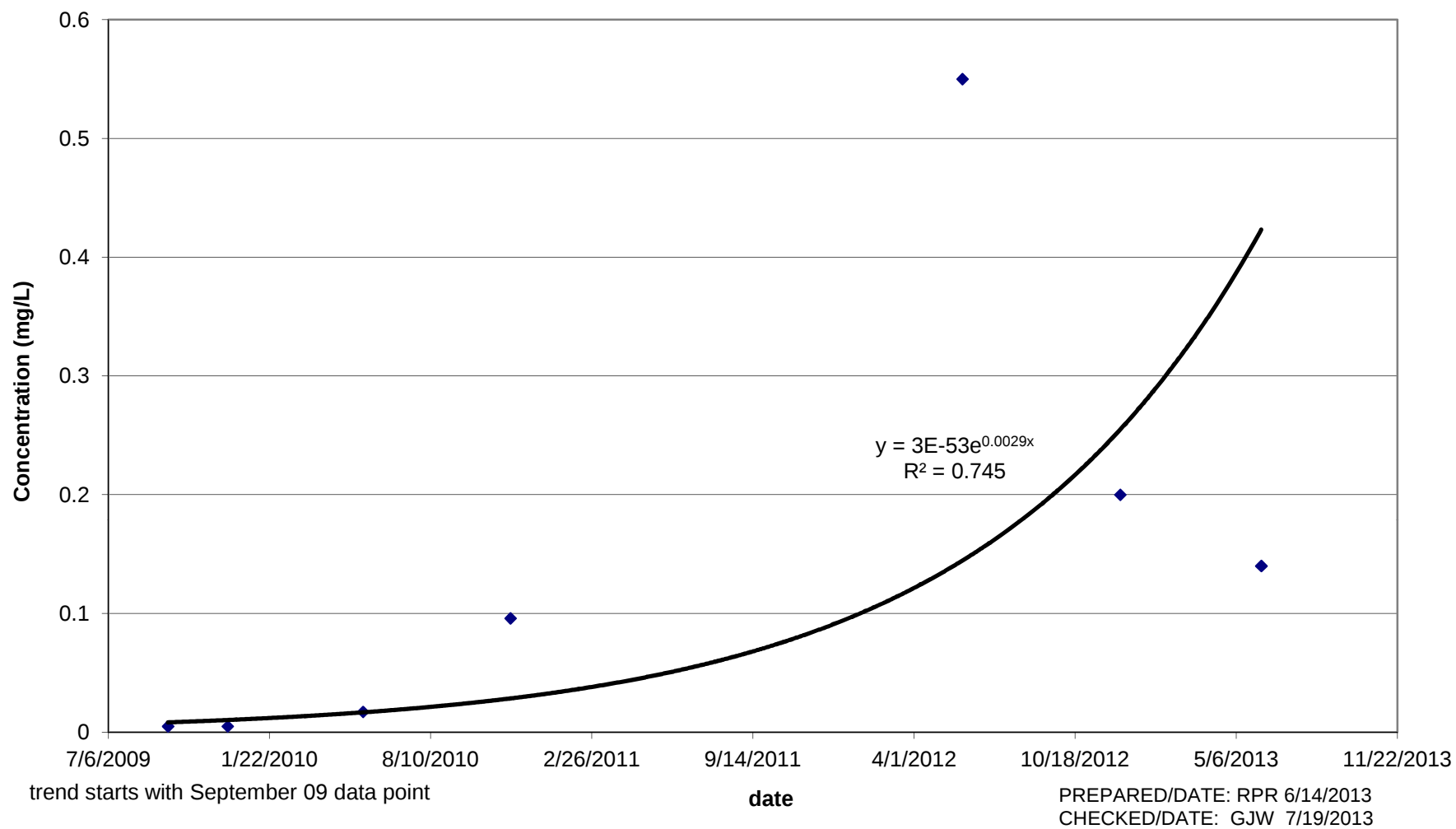
MW-8 Vinyl Chloride Concentration Versus Time Trend Plot



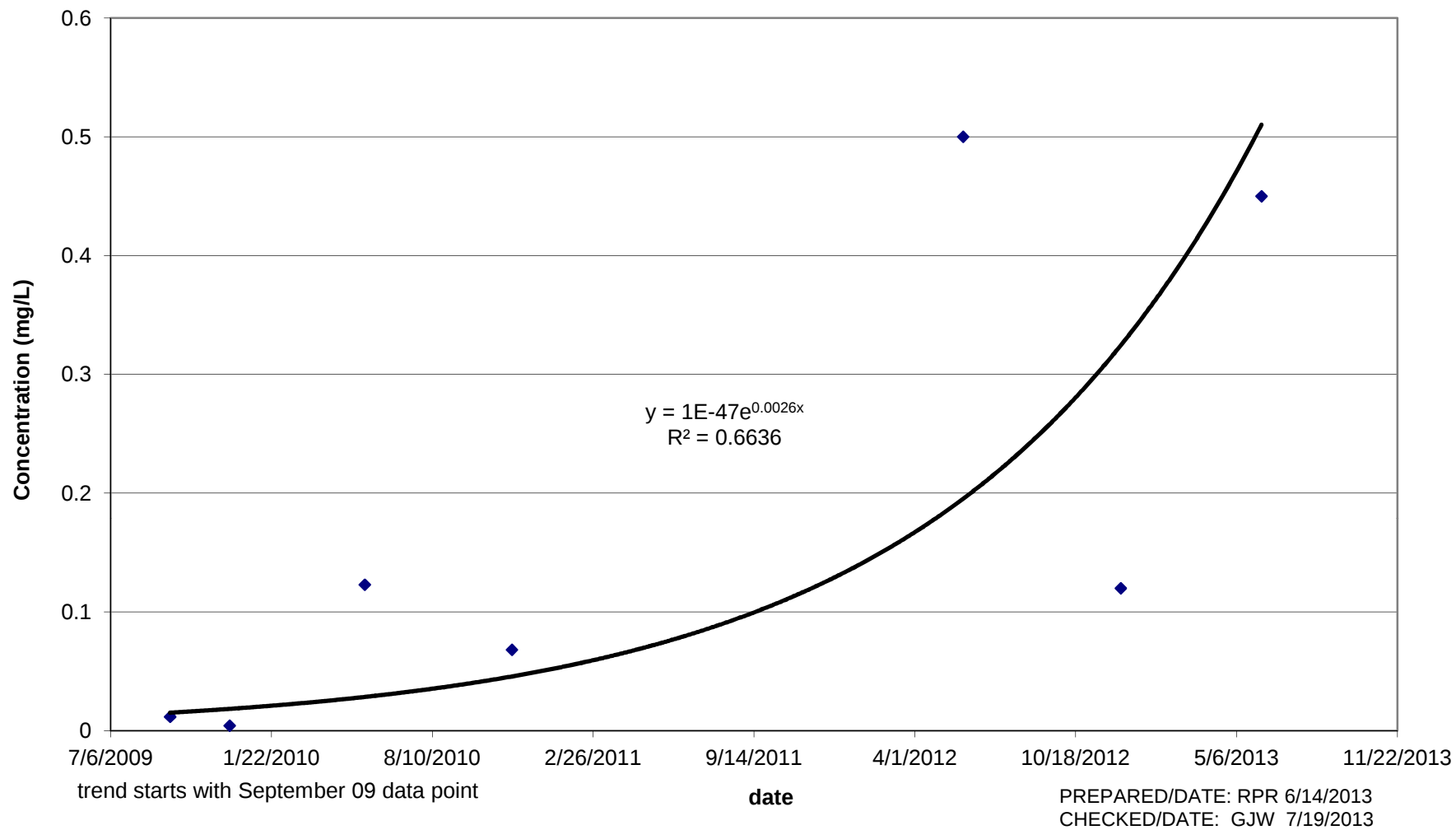
MW-19 Vinyl Chloride Concentration Versus Time Trend Plot



MW-19 Trichloroethene Concentration Versus Time Trend Plot



MW-19 1,1-Dichloroethene Concentration Versus Time Trend Plot



MW-19 cis-1,2-Dichloroethene Concentration Versus Time Trend Plot

