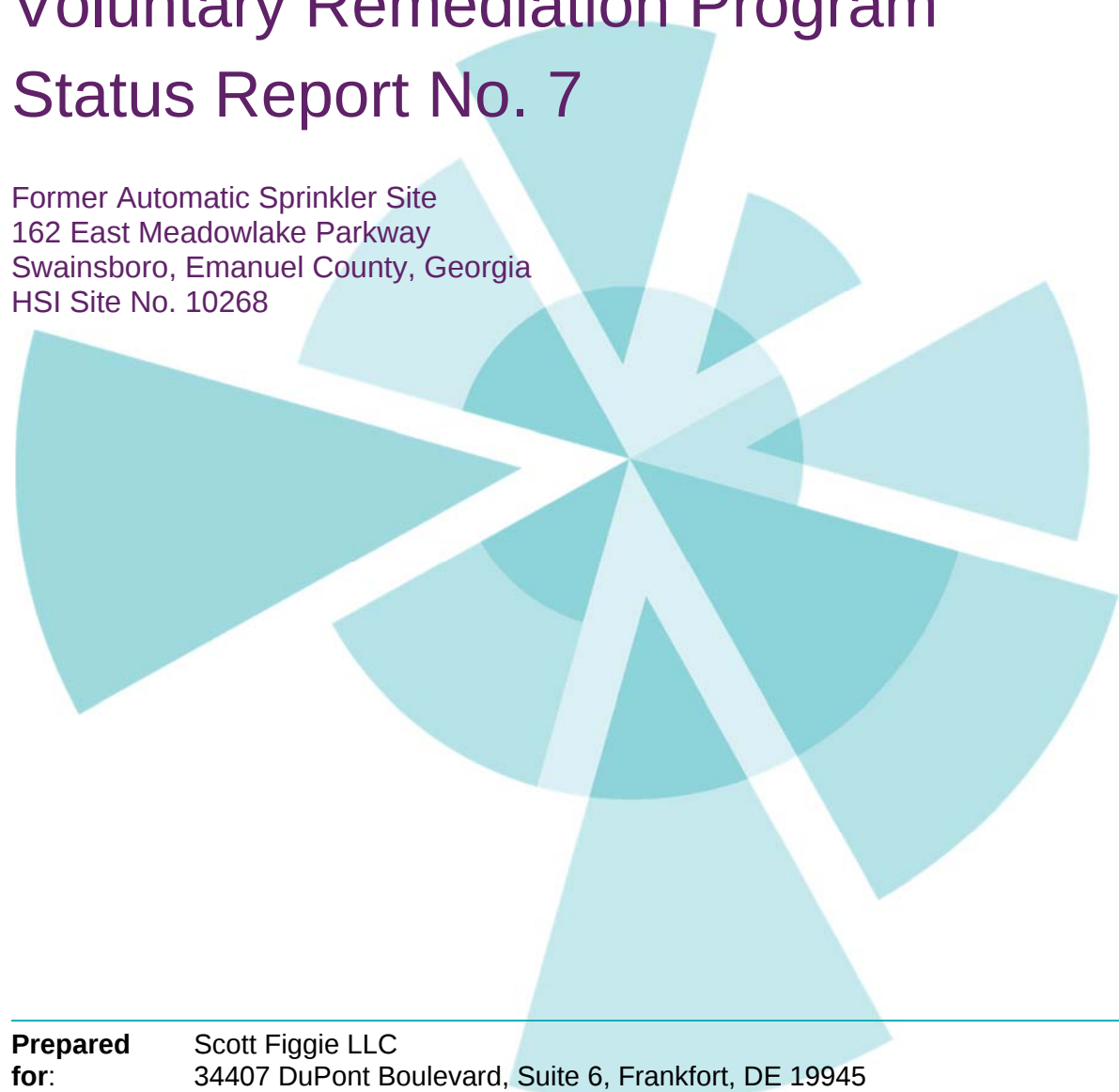


Voluntary Remediation Program Status Report No. 7

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



Prepared for: Scott Figgie LLC
34407 DuPont Boulevard, Suite 6, Frankfort, DE 19945

Date: August, 2015

Prepared by: Amec Foster Wheeler Environment & Infrastructure, Inc.
1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144

Project No.: 6125080149

August 20, 2015



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. 7**
Former Automatic Sprinkler Site, Swainsboro, Georgia
HSI Site No. 10268

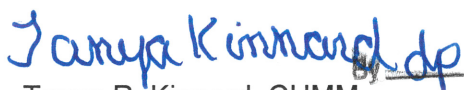
Dear Mr. Brownlee:

Amec Foster Wheeler Environment & Infrastructure, Inc. is pleased to provide Georgia Environmental Protection Division with the attached Status Report No. 7 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 January 2015 and June 2015.

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

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc.

 with permission
Tanya R. Kinnard, CHMM
Senior Professional


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

Attachment: VRP Status Report No. 7

cc: Stuart Rixman, Scott Figgie LLC
Anita Bucci, Kongsberg Automotive
Jack Bareford, Swainsboro Emanuel County Joint Development Authority

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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.

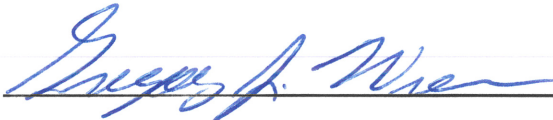
The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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

Printed Name and GA PE Number

August 20, 2015

Date



Signature and Stamp



2.0 Introduction and Background

This Voluntary Remediation Program (VRP) Semi-Annual Status Report No. 7 (Status Report) was prepared for the Former Automatic Sprinkler Site (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 seventh Status Report covers the activities conducted subsequent to Semi-Annual Status Report No. 6 submitted to the EPD on February 23, 2015.

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. was the affiliate of Scott Technologies with responsibility for its real estate operations. Due to a recent organizational change, Scott Figgie LLC is now the legal entity responsible for addressing the historical subsurface environmental issues related to the Former Automatic Sprinkler Site. Scott Figgie has engaged GSF Management Company (GSF) to manage the remediation of that site on its behalf.

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. A 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 VRP Status Report No. 2 in correspondence dated April 9, 2013.
- A 24-hour high vacuum extraction (HVE) event was conducted beginning on April 30, 2013 using MW-8 and MW-19 as extraction wells. Approximately 1,600 gallons of fluid were recovered during the HVE event. The extracted fluids were treated on-site using an air stripper and then transported to the Swainsboro publicly owned treatment works (POTW) for disposal following confirmation of treatment to acceptable levels.
- VRP Status Report No. 3, which addressed EPD comments dated April 9, 2013, was submitted to EPD on August 14, 2013.
- EPD issued comments on VRP Status Report No. 3 in correspondence dated September 13, 2013.
- VRP Status Report No. 4, which addressed EPD comments dated September 13, 2013, was submitted to EPD on February 20, 2014.
- EPD issued comments on VRP Status Report No. 4 in correspondence dated May 23, 2014.
- A 24-hour HVE event was conducted beginning on July 8, 2014 using MW-8 and MW-19 as extraction wells. Approximately 1,250 gallons of fluid were recovered during the HVE event. The extracted fluids were treated on-site using activated carbon and then transported to the Swainsboro POTW for disposal following confirmation of treatment to acceptable levels.
- VRP Status Report No. 5, which addressed EPD comments dated May 23, 2014, was submitted to EPD on August 19, 2014.
- EPD issued comments on VRP Status Report No. 5 in correspondence dated December 4, 2014.
- EPD Status Report No. 6, which addressed EPD comments dated December 4, 2014, was submitted to EPD on February 23, 2015.

3.0 Work Performed During Reporting Period

The activities currently identified to be conducted at the Former Automatic Sprinkler 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 routine semi-annual groundwater and surface water sampling event was conducted at the site in June 2015.

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 renews each year on March 25. The current estimated cost to implement the VRP is included as Table 2. The estimate contains a contingency cost allowance for conducting additional HVE events (that were not part of the approved VRP). The current estimated cost for continued VRP implementation is \$105,770. Based upon the current site data, the financial assurance appears sufficient for completion of the VRP implementation at the site.

3.2 Groundwater and Surface Water Sampling

Groundwater and surface water sampling was conducted on June 16-18, 2015. 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 gauging data dating back to 2008, are summarized on Table 3. The June 2015 groundwater elevations in the shallow zone averaged approximately 0.28 foot lower in elevation than those measured during the December 2014 sampling event. The measured groundwater elevations in the wells screened in the deep zone averaged approximately 0.51 feet higher in elevation than those measured in December 2014. Shallow zone potentiometric surface maps for June 2015 and December 2014 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 2015 and December 2014 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.

Groundwater samples were collected from shallow zone monitoring wells MW-4, MW-5, MW-6, MW-7, MW-8, MW-9/9R, 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-R3 (March 2013). 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. Appendix A contains copies of groundwater sampling logs.

The analytical results for the June 2015 groundwater sampling event are summarized on Table 4, along with historical analytical results. Constituent concentrations were similar to prior results, with generally stable or decreasing trends. Appendix B shows concentrations versus time trends for monitoring wells with historical detections of VOCs at concentrations exceeding the RRS. Figure 5 shows the results of the June 2015 event and the interpreted extent of VOCs in groundwater. No VOCs were reported above their method detection limits in monitoring well MW-20D during the June 2015 sampling event, thus indicating vertical delineation. VOCs were not detected in off-site monitoring wells. The laboratory analytical report is provided in Appendix C.

The sampling results from MW-8 showed a notable decrease in concentrations of TCE, 1,1-DCE, and 1,1,1-TCA in comparison to the post-HVE sampling events in September, November, and December 2014. Concentrations of 1,1-DCA, cis-1,2-DCE, and vinyl chloride increased in comparison to the December 2014 results, likely as a result of degradation of their parent compounds. In MW-19, the concentrations of TCE have decreased steadily from September 2014 to June 2015, while concentrations of 1,1-DCE, cis-1,2-DCE, and vinyl chloride have fluctuated over the same period.

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 Foster Wheeler personnel under chain-of-custody protocol to the laboratory, Analytical Environmental Services (AES) in Atlanta, Georgia. The laboratory analytical report is provided in Appendix C.

As shown on Table 5, all surface water sample results from the June 2015 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.

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 continue to correlate reasonably well to the previous model predictions, therefore it was not necessary to update the BIOCHLOR model for the June 2015 event. The BIOCHLOR model will be updated after the upcoming December 2015 sampling event.

5.0 Conclusions

The June 2015 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. Down gradient monitoring wells MW-9R and MW-11 are non-detect for VOCs at the property line. Down gradient offsite monitoring wells MW-15 and MW-7 are non-detect for VOCs. 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.

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. The previous BIOCHLOR predictions indicate an estimated cleanup timeframe of approximately 74 years before MNA will reduce on-site concentrations to drinking water levels. Contaminant concentrations exceeding drinking water levels appear confined to the Former Automatic Sprinkler Site.

Therefore, a UEC will be executed for the property to prohibit the use of groundwater. It is anticipated that the UEC will be in place by the end of the 5-year VRP evaluation period. Remediation enhancements to reduce contaminant mass, to limit the potential for off-site contaminant migration, and to help accelerate the cleanup timeframe continue to be considered. An additional HVE is planned to be conducted in September 2015. The next routine groundwater sampling event will be conducted in the December 2015 timeframe with the next VRP status report scheduled for submittal by February 24, 2016. An updated milestone schedule for VRP implementation activities is included as Figure 7.

6.0 Professional Hours Services this Period

Amec Foster Wheeler Environment & Infrastructure, Inc. has provided 135.2 professional service hours for VRP implementation from January 24, 2015 through July 24, 2015. The registered professional engineer responsible for implementation of the VRP at this site is Mr. Gregory Wrenn. Mr. Wrenn has personally charged 21.0 labor hours to the project to direct and review the various aspects of implementation of the VRP during this reporting period. Table 6 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
ESTIMATED COST FOR VRP IMPLEMENTATION
FORMER AUTOMATIC SPRINKLER, SWAINSBORO, GEORGIA

Task #	Task Description	Quantity	Unit	Unit Cost	Total	Notes
1.0	Annual Sampling, Reporting, Inspections, & Maintenance					
1.1	Semi-Annual Groundwater Sampling					
	Labor	2	event	\$3,000	\$6,000	Assumes 3 days/event, 2-man crew
	Laboratory Analytical	22	ea	\$280	\$6,160	VOCs, hydrogen, methane, ethane
	Rental Equipment	2	event	\$800	\$1,600	ethene
	Mobilization/Demobilization/Travel Expenses/Supplies	2	event	\$1,200	\$2,400	
1.2	Semi-Annual Surface Water Sampling					
	Labor	2	event	\$500	\$1,000	Assumes 1 day/event, 2-man crew
	Laboratory Analytical	4	ea	\$80	\$320	VOCs
	Expenses/Supplies	2	ea	\$100	\$200	
1.3	Reporting	2	ea	\$8,500	\$17,000	
1.4	Other Costs (covenant, inspections, EPD comments/invoices)	1	ea	\$2,500	\$2,500	
	SUBTOTAL - Annual Costs				\$37,180	
2.0	Supplemental Hi-Vacuum Remediation Events	2	ea	\$15,000	\$30,000	
3.0	Post-Implementation Compliance Status Report	1	ea	\$20,000	\$20,000	
Year	Cost Description	Task 1	Task 2	Task 3	Yearly Cost	
2015	Annual Costs + HVR Event	\$18,590	\$15,000		\$33,590	
2016	Annual Costs + HVR Event	\$37,180	\$15,000		\$52,180	
2017	Annual Costs + CSR			\$20,000	\$20,000	
	TOTAL PROJECTED COST				\$105,770	

Prepared by: TRK 8/12/2015

Checked by: GJW 8/12/2015

The cost opinion is provided for budgetary purposes. Actual scope of work and costs may vary as additional information and formal cost estimates are obtained.

Table 3
Summary of Groundwater Elevations June 2008 Through June 2015

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)
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-18	281.27	NI	NI	NI	NI	3.55	277.72	2.64	278.63	2.87	278.40	4.16	277.11
MW-19	281.80	NI	NI	NI	NI	4.13	277.67	3.23	278.57	3.00	278.80	2.81	278.99
MW-20	282.99	NI	NI	NI	NI	5.15	277.84	4.77	278.22	4.53	278.46	5.78	277.21
MW-21	284.12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
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
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
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
MW-20D	281.21	NI	NI	NI	NI	6.59	274.62	6.08	275.13	7.35	273.86	6.79	274.42

Notes:

BTOC: Below top of casing
FT MSL: Feet mean sea level
NM: not measured
NI = Not Installed

¹ Water level measurement collected on 4/15/2009

* Water level measurements collected on 5/31/2012

Table 3
Summary of Groundwater Elevations June 2008 Through June 2015

Well ID	TOC Elevation (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)	Depth to Water 12/3/2013 (FT BTOC)	Groundwater Elevation 12/3/2013 (FT MSL)	Depth to Water 6/2/2014 (FT BTOC)	Groundwater Elevation 6/2/2014 (FT MSL)	Depth to Water 12/1/2014 (FT BTOC)	Groundwater Elevation 12/1/2014 (FT MSL)	Depth to Water 6/16/2015 (FT BTOC)	Groundwater Elevation 6/16/2015 (FT MSL)
Shallow Aquifer															
MW-1	292.71	NM	NM	12.63	280.08	9.74	282.97	10.58	282.13	8.82	283.89	9.61	283.10	8.66	284.05
MW-2	285.70	5.14	280.56	6.14	279.56	5.83	279.87	4.91	280.79	4.94	280.76	4.88	280.82	5.21	280.49
MW-3	281.17	2.31	278.86	3.03	278.14	2.98	278.19	2.70	278.47	2.51	278.66	2.98	278.19	2.87	278.30
MW-4	281.84	1.71	280.13	3.11	278.73	2.25	279.59	2.02	279.82	1.40	280.44	2.43	279.41	1.55	280.29
MW-5	286.71	*6.65	280.06	8.42	278.29	6.49	280.22	7.51	279.20	5.78	280.93	7.29	279.42	5.58	281.13
MW-6	281.00	4.40	276.60	5.32	275.68	4.16	276.84	4.72	276.28	3.59	277.41	4.69	276.31	3.41	277.59
MW-7	281.33	2.71	278.62	3.33	278.00	3.50	277.83	3.24	278.09	3.53	277.80	3.50	277.83	3.75	277.58
MW-8	281.28	2.13	279.15	3.20	278.08	3.36	277.92	3.05	278.23	3.06	278.22	3.21	278.07	3.40	277.88
MW-9R	278.31	2.51	275.80	3.16	275.15	3.00	275.31	3.48	274.83	2.70	275.61	3.14	275.17	2.84	275.47
MW-10	289.37	4.28	285.09	7.15	282.22	6.47	282.90	6.65	282.72	5.46	283.91	5.48	283.89	5.05	284.32
MW-11	281.77	3.27	278.50	3.93	277.84	4.10	277.67	3.79	277.98	3.95	277.82	4.11	277.66	4.30	277.47
MW-12	288.04	2.85	285.19	5.04	283.00	4.71	283.33	4.51	283.53	3.62	284.42	3.33	284.71	3.28	284.76
MW-15	280.22	6.47	273.75	7.05	273.17	6.59	273.63	6.72	273.50	6.31	273.91	6.19	274.03	6.37	273.85
MW-18	281.27	2.64	278.63	3.43	277.84	3.17	278.10	3.11	278.16	3.01	278.26	3.33	277.94	3.30	277.97
MW-19	281.80	*3.27	278.53	3.64	278.16	3.83	277.97	3.45	278.35	3.49	278.31	3.65	278.15	3.92	277.88
MW-20	282.99	4.45	278.54	5.24	277.75	5.18	277.81	5.08	277.91	5.04	277.95	5.25	277.74	5.15	277.84
MW-21	284.12	*4.96	279.16	5.44	278.68	5.46	278.66	4.96	279.16	4.86	279.26	5.26	278.86	5.26	278.86
Deep Aquifer															
MW-1D	282.95	7.91	275.04	8.04	274.91	8.17	274.78	8.01	274.94	7.95	275.00	7.80	275.15	8.00	274.95
MW-2D	280.01	8.47	271.54	8.74	271.27	8.83	271.18	7.61	272.40	8.07	271.94	8.24	271.77	8.14	271.87
MW-16D	279.91	6.32	273.59	6.54	273.37	5.85	274.06	5.52	274.39	5.50	274.41	6.88	273.03	5.39	274.52
MW-20D	281.21	7.57	273.64	7.19	274.02	7.31	273.90	6.65	274.56	6.75	274.46	7.44	273.77	6.80	274.41

Notes:

BTOC: Below top of casing

FT MSL: Feet mean sea

NM: not measured

NI = Not Installed

¹ Water level measurement

* Water level measurement

Prepared by: MHA 7/30/2015

Checked by: TRK 8/11/2015

Sample Location		MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	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	Dec-09	May-10	Nov-10	Jul-98	Dec-00	Dec-03	May-04
<u>VOCs (mg/L)</u>		DUP-2																		
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	0.029	0.022	0.040	0.0024
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	NA	<0.005	<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	ND	<0.005	<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	NA	<0.005	<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	ND	<0.005	<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	ND	<0.005	<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	0.018	<0.005	<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	NA	<0.005	<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	ND	<0.005	<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	NA	<0.005	<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	0.300	0.093	0.058	0.018
<u>SVOCs (mg/L)</u>																				
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Field Parameters</u>																				
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	NA	6.37	6.24	6.12
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	NA	0.21	0.33	0.183
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	NA	17.91	18.22	21
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	NA	0.00	0.24	0.12
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	NA	-32.00	-43.1	-110
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	NA	5.40	12.5	8
Iron II (mg/L)	---	NA	4.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.40	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	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	NA	9.60	NA	NA
Chloride	---	NA	4.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.70	NA	NA
Nitrate	---	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA
Sulfate	---	NA	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.10	NA	NA
Total Alkalinity	---	NA	74.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120.00	NA	NA
Total Sulfide	---	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	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	0.001	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	NA	0.0026	0.0027	0.001
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	NA	<0.000005	<0.000005	<0.000005
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	NA	8.10	8.3	5.6
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	NA	0.16	2.6	2.7

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.

Sample Location		MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-5	MW-5
Date Sampled	TYPE 3/4 RRS mg/L	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	Dec-13	Jun-14	Dec-14	Jun-15	Oct-98	Dec-00
<u>VOCs (mg/L)</u>																				
Chloroethane	---	0.021	0.0045	0.003	0.0029	0.0034	0.0029	<0.001	0.0014	0.0016	0.0013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	ND	<0.010
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	<0.005	<0.005	NA	<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	<0.005	<0.005	ND	<0.005
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	<0.005	<0.005	NA	<0.005
Trichloroethylene	0.0052	<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	<0.005	<0.005	<0.005	<0.005	ND	<0.005
1,1-Dichloroethene	0.52	<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	<0.005	<0.005	0.008	0.015
1,1-Dichloroethane	---	<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	<0.005	<0.005	0.007	0.015
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	<0.005	<0.005	<0.005	<0.005	NA	<0.005
cis -1,2-Dichloroethene	0.2	<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	<0.005	<0.005	<0.005	<0.005	ND	<0.005
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	<0.005	<0.005	NA	<0.005
Vinyl Chloride	0.0033	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	0.036	0.02	0.028	0.020	ND	<0.010
<u>SVOCs (mg/L)</u>																				
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Field Parameters</u>																				
pH (std. Units)	---	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	6.19	5.72	6.01	6.18	NA	4.84
Specific Conductance (mS/cm)	---	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	0.463	0.478	0.406	0.414	NA	0.03
Temperature (deg. C)	---	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	21.94	26.81	21.91	26.24	NA	18.50
Dissolved Oxygen (mg/L)	---	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	3.78	0.73	0.31	0.46	NA	0.00
ORP (mV)	---	-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	-63	-27.4	-66.8	-59.9	NA	210.00
Turbidity (NTU)	---	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	0.0	0.7	2.80	5.70	NA	0.00
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.80
<u>Geochemical Natural Attenuation Parameters (mg/L)</u>																				
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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0
Chloride	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.20
Nitrate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05
Sulfate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.60
Total Alkalinity	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.70
Total Sulfide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	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	<0.007	<0.007	<0.007	<0.007	NA	0.000016
Ethane	---	<0.000005	<0.00001	<0.00001	<0.00001	<0.00001	0.00001	0.000004J	<0.00001	0.000004 J	0.000008 J	NA	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	NA	<0.000005
Methane	---	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	6.2	3.8	5.9	7.0	NA	0.52
Hydrogen (nmol/L)	---	1.2	7.7	3.8	2.0	2.7	4.8	3.0	25.0	2.6	2.7	NA	NA	NA	NA	NA	NA	NA	NA	<0.030

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.

Sample Location		MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Date Sampled	TYPE 3/4 RRS mg/L	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	Dec-13	Jun-14	Dec-14	Jun-15
<u>VOCs (mg/L)</u>																				
Chloroethane	---	<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	<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	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<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	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<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	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethylene	0.0052	<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	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	0.52	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	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	---	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	<0.005	<0.005	<0.005	<0.005
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	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis -1,2-Dichloroethene	0.2	<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	<0.005	<0.005	<0.005	<0.005
trans -1,2-Dichloroethene	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride	0.0033	<0.001	<0.001	<0.001	<0.001	<0.001	0.00035 J	0.00033J	0.00026 J	<0.001	0.0003J	0.00088 J	<0.001	<0.002	<0.002	<0.002	<0.002	<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	NA	NA	NA	NA	NA	NA
<u>Field Parameters</u>																				
pH (std. Units)	---	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	5.01	4.72	4.38	4.75
Specific Conductance (mS/cm)	---	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	0.037	0.037	0.045	0.043
Temperature (deg. C)	---	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	21.28	21.2	20.94	22.13
Dissolved Oxygen (mg/L)	---	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	3.99	0.57	0.41	1.40
ORP (mV)	---	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	233.4	161.5	267.2	206.7
Turbidity (NTU)	---	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	8.6	1.2	7.41	9.71
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	NA	NA	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	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
Chloride	---	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
Sulfate	---	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
Total Sulfide	---	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
Ethene	---	0.000009	0.000011	0.000011	0.000009	0.000008 J	0.000006 J	0.000007J	0.000012	0.000006J	0.000065	0.000011 J	0.000007 J	NA	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Ethane	---	<0.000005 J	0.0000024 J	0.0000061	0.000004	0.000002 J	0.000002 J	0.000005J	0.000006 J	0.000004J	0.000008J	0.000015 J	0.000002 J	NA	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
Methane	---	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	0.078	0.054	0.09	0.260
Hydrogen (nmol/L)	---	1.2	1.7	1.6	2.3	7.2	11	4	15	7.7	11.0	8.8	3.9	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.

Sample Location		MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	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
<u>VOCs (mg/L)</u>																				
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
<u>SVOCs (mg/L)</u>																				
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
<u>Field Parameters</u>																				
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
<u>Geochemical Natural Attenuation Parameters (mg/L)</u>																				
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	0.000066	0.000068	0.00011	0.000038	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.

Sample Location		MW-6	MW-6	MW-6	MW-6	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
Date Sampled	TYPE 3/4 RRS mg/L	Dec-13	Jun-14	Dec-14	Jun-15	May-12	Dec-12	Jun-13	Dec-13	Jun-14	Dec-14	Jun-15	Oct-98	Jul-00	Dec-00	Apr-01	Dec-03	Dec-03 Dup	May-04
<u>VOCs (mg/L)</u>																			
Chloroethane	---	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.041	<1	<0.1	0.046	0.38	0.37	<0.05
1,1,2,2-Tetrachloroethane	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.001	<0.5	<0.05	<0.002	<0.050	<0.05	<0.05
1,1,1-Trichloroethane	13	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	53	6.2	0.67	2.5	1.3	1.3	0.75
1,1,2-Trichloroethane	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.052	<0.5	<0.05	<0.002	<0.050	<0.05	<0.05
Trichloroethylene	0.0052	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	140	14	1	4	2.4	2.4	1.6
1,1-Dichloroethene	0.52	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	45	8.7	0.9	2.3	2.4	2.2	1.2
1,1-Dichloroethane	---	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.94	<0.5	0.13	0.17	0.28	0.27	0.17
1,2-Dichloroethane	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.03	<0.5	<0.05	<0.002	<0.050	<0.05	<0.05
cis -1,2-Dichloroethene	0.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	4.5	4.5	1.1	1.4	2.3	2.1	2.1
trans -1,2-Dichloroethene	---	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.5	<0.05	NA	<0.050	<0.05	<0.05
Vinyl Chloride	0.0033	<0.002	<0.002	0.0042	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.93	1.6	0.99	0.37	1.8	1.8	0.73
<u>SVOCs (mg/L)</u>																			
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA
<u>Field Parameters</u>																			
pH (std. Units)	---	5.90	4.93	5.40	5.83	5.06	5.18	5.05	5.28	4.67	4.61	5.19	NA	NA	6.04	5.23	6.09	NA	5.81
Specific Conductance (mS/cm)	---	0.157	0.146	0.142	0.180	0.057	0.082	0.170	0.196	0.157	0.086	0.097	NA	NA	0.17	0.14	0.48	NA	0.33
Temperature (deg. C)	---	23.19	27.11	23.85	27.72	20.63	16.08	18.95	17.20	20.83	17.76	22.09	NA	NA	17.02	NA	18.53	NA	20.95
Dissolved Oxygen (mg/L)	---	0.21	0.28	0.22	0.30	0.24	0.68	0.58	0.23	0.32	2.25	0.71	NA	NA	0.00	NA	0.24	NA	0.33
ORP (mV)	---	-33.2	-23.8	-101.8	-18.5	131.9	224.2	-37.0	52.4	4.9	260.40	52.1	NA	NA	-49.00	NA	-47.4	NA	-70
Turbidity (NTU)	---	9.2	8.47	8.63	4.9	60.8	161.4	7.3	455.9	7.6	10.20	5.3	NA	NA	10.50	NA	6.7	NA	0.5
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.00	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	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.00	NA	NA	NA	NA
Chloride	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.00	NA	NA	NA	NA
Nitrate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA
Sulfate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.90	NA	NA	NA	NA
Total Alkalinity	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	59.00	NA	NA	NA	NA
Total Sulfide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.16	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	---	<0.007	<0.007	<0.007	<0.007	NA	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	NA	NA	0.23	NA	0.32	NS	0.11
Ethane	---	<0.009	<0.009	<0.009	<0.009	NA	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	NA	NA	0.00	NA	0.00022	NS	0.00072
Methane	---	3.5	1.8	2.1	2.8	NA	0.17	0.94	0.95	1.3	0.006	1.1	NA	NA	7.70	NA	7.3	NS	7.7
Hydrogen (nmol/L)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.03	NA	2	NS	1.6

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.

Sample Location		MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
Date Sampled	TYPE 3/4 RRS mg/L	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	Jun-08	Jun-08 Dup	Oct-08	Oct-08 Dup	Apr-09	Apr-09	Sep-09	Sep-09
<u>VOCs (mg/L)</u>																	DUP		DUP
Chloroethane	---	<0.05	0.04	<0.1	0.03	<0.050	0.025 J	<0.020	0.02	<0.020	<0.020	<0.1	<0.05	<0.025	<0.025	<0.005	<0.005	0.0595	0.0556
1,1,2,2-Tetrachloroethane	0.005	<0.05	<0.025	<0.1	<0.001	<0.050	<0.025	<0.02	<0.02	<0.02	<0.02	<0.1	<0.05	<0.025	<0.025	<0.005	<0.005	<0.04	<0.025
1,1,1-Trichloroethane	13	0.95	2.0	1.9	1.9	2.2	1.7	0.55	0.65	0.74	0.87	5.55	5.27	0.217	0.194	0.32	0.32	1.1	0.802
1,1,2-Trichloroethane	0.005	<0.05	<0.025	<0.1	0.0019	<0.050	<0.025	<0.020	<0.020	<0.02	<0.02	<0.1	<0.05	<0.025	<0.025	<0.005	<0.005	<0.0400	<0.0250
Trichloroethylene	0.0052	1.8	3.3	4.6	4.7	5.3	4.4	0.71	0.8	1.3	1.6	11.9	11.1	0.532	0.529	0.577	0.594	1.54	1.05
1,1-Dichloroethene	0.52	1.3	3.6	3.3	3.5	4.9	3.2	2.1	2.3	1.7	1.9	8.34	7.86	0.567	0.541	0.611	0.587	3.17	2.26
1,1-Dichloroethane	---	0.2	0.19	0.23	0.24	0.28	0.23	0.18	0.19	0.15	0.18	0.43	0.428	0.0797	0.0834	0.0442	0.0472	0.397	0.38
1,2-Dichloroethane	0.005	<0.050	<0.025	<0.1	<0.001	<0.050	<0.025	<0.020	<0.020	<0.020	<0.020	<0.100	<0.05	<0.025	<0.025	<0.005	<0.005	<0.0400	<0.0250
cis -1,2-Dichloroethene	0.2	2.3	3.6	2.7	3	4.2	3.4	3.4	3.7	1.9	2.2	5.86	5.66	0.875	0.815	0.808	0.783	4.19	3.36
trans -1,2-Dichloroethene	---	<0.05	<0.025	<0.1	0.01	<0.050	<0.025	<0.020	<0.020	<0.020	<0.020	<0.100	<0.05	<0.025	<0.025	0.0051	0.0064	<0.0400	<0.0250
Vinyl Chloride	0.0033	0.85	0.73	1.1	1.2	1.4	0.89	0.81	0.78	0.69	0.67	1.32	1.22	0.421	0.372	0.219	0.23	2.4	2.09
<u>SVOCs (mg/L)</u>																			
1,4-Dioxane (p-Dioxane)	---		NA	NA		NA		NA		NA		NA		NA		<0.0200	<0.0200	NA	NA
<u>Field Parameters</u>																			
pH (std. Units)	---	NA	6.14	5.88	5.88	5.75	5.75	5.86	5.86	5.76	5.76	5.72	5.72	NA	NA	6.41	NA	5.87	5.87
Specific Conductance (mS/cm)	---	NA	0.524	0.384	0.384	0.419	0.419	0.403	0.403	0.371	0.371	0.489	0.489	NA	NA	0.29	NA	0.482	0.482
Temperature (deg. C)	---	NA	20.71	19.16	19.16	21.15	21.15	19.27	19.27	19.54	19.54	24.25	24.25	NA	NA	17.77	NA	24.82	24.82
Dissolved Oxygen (mg/L)	---	NA	0.65	0.93	0.93	0.46	0.46	0.33	0.33	0.88	0.88	0.61	0.61	NA	NA	0.3	NA	0.08	0.08
ORP (mV)	---	NA	-82.2	-19.1	-19.1	-12.1	-12.1	-45.2	-45.2	-8.5	-8.5	-131.4	-131.4	NA	NA	7.4	NA	-14.6	-14.6
Turbidity (NTU)	---	NA	5.6	4.9	4.9	3.9	3.9	1.7	1.7	4.5	4.5	4	4	NA	NA	0.1	NA	5.3	5.3
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Geochemical Natural Attenuation Parameters (mg/L)</u>																			
Iron II	---	NA	NA	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	NA	9.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	NA	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	NA	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	NA	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	NA	76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	---	NA	NA	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	0.12	0.053	0.054	NA	0.13	0.13	0.051	0.064	0.046	0.063	0.062	0.057	NA	NA	0.0021	0.0045	0.074	0.08
Ethane	---	0.0013	0.0014	0.0012	NA	0.0038	0.0037	0.0018	0.003	0.0021	0.0042	0.0025	0.0024	NA	NA	0.00013	0.00032	0.0018	0.0019
Methane	---	11	4.1	8	NA	12	12	4.3	7.1	7.7	9.6	8.2	11	NA	NA	0.42	1.2	4.1	4.4
Hydrogen (nmol/L)	---	NA	2.0	1.2	NA	0.87	NA	18	NA	1.2	NA	7.3	NA	NA	NA	2.8	0.0019	56	61

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.

Sample Location		MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
Date Sampled	TYPE 3/4 RRS mg/L	Dec-09	May-10	DUP-1	Nov-10	Nov-10	May-12	Dec-12	Dec-12	Jun-13	Jun-13	Dec-13	Dec-13	Jun-14	Jun-14	Sep-14	Nov-14	Dec-14
<u>VOCs (mg/L)</u> Chloroethane 1,1,2,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,1-Dichloroethene 1,1-Dichloroethane 1,2-Dichloroethane <i>cis</i> -1,2-Dichloroethene <i>trans</i> -1,2-Dichloroethene Vinyl Chloride		DUP-1					DUP-1					DUP-1			Dup-1		Dup-1	
	---	<0.01	0.0134	<0.025	0.0905	0.0632	<0.01	0.025	0.026	<0.010	<0.010	0.067	0.078	0.016	0.016	0.013	NA	<0.010
	0.005	<0.01	<0.01	<0.025	<0.02	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	13	0.296	1.1	0.96	1.65	1.36	0.740	2.5	2.6	0.470	0.520	0.74	0.79	0.49	0.55	3.90	1.20	4.60
	0.005	<0.01	<0.01	<0.025	<0.02	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	0.0052	0.396	1.87	1.68	3.56	2.99	1.5	4.6	4.8	0.73	0.82	1.5	1.6	1.5	1.7	8.6	1.9	9.7
	0.52	1.17	1.99	1.75	4.19	3.21	2.2	6.2	6.5	1.9	1.9	2.1	2.2	1.1	1.2	5.3	3.2	4.3
	---	0.0789	0.128	0.127	0.252	0.247	0.170	0.250	0.250	0.110	0.110	0.28	0.28	0.12	0.12	0.17	0.18	0.034
	0.005	<0.01	<0.01	<0.025	<0.02	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	0.2	1.82	2.02	1.87	4.1	3.54	2.7	7.0	7.1	2.1	2.0	2.2	2.2	1.5	1.5	3.4	2.8	0.370
	---	<0.01	<0.01	<0.025	<0.02	<0.02	<0.005	8.6	9.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	0.0033	0.589	0.902	0.802	1.89	1.56	0.47	2.1	2.2	0.86	0.82	2.6	2.6	0.90	0.99	0.78	0.89	0.100
<u>SVOCs (mg/L)</u>																		
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Field Parameters</u>																		
pH (std. Units)	---	6.40	5.94	5.94	5.67	5.67	6.02	6.05	6.05	5.41	5.41	6.01	NA	5.76	NA	5.64	NA	6.12
Specific Conductance (mS/cm)	---	0.442	0.400	0.40	0.404	0.404	0.499	0.669	0.669	0.288	0.288	0.311	NA	0.320	NA	0.27	NA	0.407
Temperature (deg. C)	---	19.80	20.16	20.16	21.70	21.70	23.12	17.50	17.50	20.19	20.19	19.98	NA	21.93	NA	25.22	NA	18.72
Dissolved Oxygen (mg/L)	---	0.31	0.22	0.22	0.48	0.48	0.85	2.22	2.22	0.53	0.53	3.89	NA	0.87	NA	1.37	NA	0.44
ORP (mV)	---	-100.7	8.0	8.0	-428.8	-428.8	4.5	-52.6	-52.6	-32.8	-32.8	-21.7	NA	-65.4	NA	-3.6	NA	-25.5
Turbidity (NTU)	---	4.6	20.1	20.1	0	0	10.1	7.4	7.4	2.7	2.7	5.3	NA	3.84	NA	5.76	NA	5.10
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA
Total Organic Carbon	---	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
Nitrate	---	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
Total Alkalinity	---	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
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	0.016	0.023 J	0.048	0.078	0.078	NA	0.067	0.067	0.01	0.014	0.049	NA	0.024	0.023	<0.007	NA	<0.007
Ethane	---	0.00093	0.00077 J	0.003	0.00072	0.00072	NA	<0.009	<0.009	<0.009	<0.009	<0.0090	NA	<0.009	<0.009	0.02	NA	<0.009
Methane	---	2.4	3.0 J	12.0	1.7	1.7	NA	6.4	6.4	7.9	8	6.8	NA	4.8	4	6.5	NA	0.440
Hydrogen (nmol/L)	---	1.5	2.1	NA	0.92	0.92	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.

Sample Location		MW-8	MW-8	MW-8	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R
Date Sampled	TYPE 3/4 RRS mg/L	Dec-14	Jun-15	Jun-15	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
<u>VOCs (mg/L)</u>		DUP-1		Dup-1															
Chloroethane	---	<0.010	<0.010	<0.010	ND	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
1,1,2,2-Tetrachloroethane	0.005	<0.005	<0.005	<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
1,1,1-Trichloroethane	13	4.80	0.29	0.26	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
1,1,2-Trichloroethane	0.005	<0.005	<0.005	<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
Trichloroethylene	0.0052	9.6	0.41	0.39	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
1,1-Dichloroethene	0.52	4.3	0.94	0.91	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
1,1-Dichloroethane	---	0.042	0.11	0.110	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
1,2-Dichloroethane	0.005	<0.005	<0.005	<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
cis -1,2-Dichloroethene	0.2	0.400	1.20	1.00	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
trans -1,2-Dichloroethene	---	<0.005	<0.005	<0.005	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
Vinyl Chloride	0.0033	0.160	0.640	0.590	0.003	<0.010	<0.001	0.0021	0.0013	0.00067 J	0.00056 J	0.00066J	0.0014	<0.001	<0.001	0.00068J	<0.001	<0.001	<0.002
<u>SVOCs (mg/L)</u>																			
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0208	NA	NA	NA	NA	NA
<u>Field Parameters</u>																			
pH (std. Units)	---	NA	6.00	NA	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
Specific Conductance (mS/cm)	---	NA	0.353	NA	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
Temperature (deg. C)	---	NA	24.66	NA	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
Dissolved Oxygen (mg/L)	---	NA	0.62	NA	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
ORP (mV)	---	NA	-30.1	NA	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
Turbidity (NTU)	---	NA	4.1	NA	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
Iron II (mg/L)	---	NA	NA	NA	NA	6.4	NA	NA	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	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	NA	NA	NA	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	---	NA	NA	NA	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	---	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	---	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	---	NA	NA	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfide	---	NA	NA	NA	NA	<0.1	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	---	<0.007	<0.007	<0.007	NA	0	0.000053	0.00033	0.00018	0.00023	0.00017	0.000078	0.00014	0.000009J	0.000002J	0.000042	0.000025 J	0.000041	NA
Ethane	---	<0.009	<0.009	<0.009	NA	<0.000005	0.0000054	0.000032	0.00001	0.000008 J	0.000006 J	0.000008J	0.000019	<0.00001	0.000027	0.000002J	<0.00001	0.000004 J	NA
Methane	---	0.410	4.40	4.30	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
Hydrogen (nmol/L)	---	NA	NA	NA	NA	0.38	4501	0.71	1.1	1.5	2.1	3.7	1.4	0.65	210	28	14	0.8	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.

Sample Location		MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-9/9R	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11	MW-11
Date Sampled	TYPE 3/4 RRS mg/L	Dec-12	Jun-13	Dec-13	Jun-14	Dec-14	Jun-15	Oct-98	Dec-00	Dec-03	May-04	Dec-04	May-05	Jun-06	Jun-13	Jun-14	Oct-98	Dec-00	Dec-03	May-04
<u>VOCs (mg/L)</u>																				
Chloroethane	---	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	ND	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010	NA	ND	<0.010	<0.001	<0.001
1,1,2,2-Tetrachloroethane	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	NA	NA	<0.005	<0.001	<0.001
1,1,1-Trichloroethane	13	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.005	<0.001	<0.003	<0.001	<0.001	<0.001	<0.005	NA	ND	<0.005	<0.001	<0.001
1,1,2-Trichloroethane	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.001	<0.004	<0.001	<0.001	<0.001	<0.005	NA	NA	<0.005	<0.001	<0.001
Trichloroethylene	0.0052	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.002	<0.005	<0.001	<0.005	<0.001	0.001	0.00057 J	<0.005	NA	ND	<0.005	<0.001	<0.001
1,1-Dichloroethene	0.52	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.005	0.0017	0.0014	<0.001	<0.001	0.00099 J	<0.005	NA	ND	<0.005	<0.001	<0.001
1,1-Dichloroethane	---	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.003	<0.005	0.0023	0.0024	0.0012	0.0015	0.0015	<0.005	NA	ND	<0.005	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	NA	NA	<0.005	<0.001	<0.001
cis -1,2-Dichloroethene	0.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	ND	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	NA	ND	<0.005	<0.001	<0.001
trans -1,2-Dichloroethene	---	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	NA	NA	<0.005	<0.001	<0.001
Vinyl Chloride	0.0033	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	ND	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	NA	ND	<0.010	<0.001	<0.001
<u>SVOCs (mg/L)</u>																				
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Field Parameters</u>																				
pH (std. Units)	---	6.37	6.37	6.33	6.05	5.93	6.34	NA	4.98	5.37	5.22	5.20	4.74	4.44	5.07	3.38	NA	5.18	5.54	5.51
Specific Conductance (mS/cm)	---	0.216	0.337	0.402	0.316	0.609	0.317	NA	0.04	0.05	0.038	0.048	0.039	0.038	0.051	0.053	NA	0.43	0.06	0.06
Temperature (deg. C)	---	18.99	21.54	20.49	26.07	20.44	26.55	NA	14.36	16.48	19.22	18.05	19.63	19.02	17.11	19.78	NA	8.47	10.95	21.2
Dissolved Oxygen (mg/L)	---	3.31	1.49	0.24	0.37	0.42	0.40	NA	0.00	0.38	0.33	0.21	0.48	0.58	0.55	0.49	NA	0.00	0.27	0.36
ORP (mV)	---	46.0	-27.4	-25.0	-27.8	-90.5	-3.9	NA	-35.00	2.8	61.2	5.9	103.0	36.2	119.7	38.5	NA	137.00	141.7	90.1
Turbidity (NTU)	---	8.3	9.6	9.2	8.07	8.63	8.7	NA	0.20	0.7	3.5	2.0	0.0	2.3	101.6	7.77	NA	4.50	10.3	10.8
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	NA	2.80	NA	NA	NA	NA	NA	NA	NA	NA	2.60	NA	NA
<u>Geochemical Natural Attenuation Parameters (mg/L)</u>																				
Iron II	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	---	NA	NA	NA	NA	NA	NA	NA	2.40	NA	NA	NA	1.2	NA	NA	NA	NA	6.30	NA	NA
Chloride	---	NA	NA	NA	NA	NA	NA	NA	2.80	NA	NA	NA	2.5	NA	NA	NA	NA	4.50	NA	NA
Nitrate	---	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	<0.10	NA	NA	NA	NA	<0.05	NA	NA
Sulfate	---	NA	NA	NA	NA	NA	NA	NA	4.10	NA	NA	NA	<1.0	NA	NA	NA	NA	1.70	NA	NA
Total Alkalinity	---	NA	NA	NA	NA	NA	NA	NA	11.00	NA	NA	NA	7.5	NA	NA	NA	NA	9.00	NA	NA
Total Sulfide	---	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	<0.10	NA	NA	NA	NA	<0.10	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	60	NA	NA	NA	NA	NA	NA	NA
Ethene	---	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	NA	<0.000005	<0.000005	0.000004 J	<0.000005	<0.00001	<0.00001	NA	NA	NA	0.00040	0.000092	0.000025
Ethane	---	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	NA	<0.000005	<0.000005	0.0000021 J	0.000018	0.000005	0.000002 J	NA	NA	NA	<0.000005	<0.000005	<0.000005
Methane	---	0.084	0.24	1.8	0.2	0.10	0.38	NA	0.08	0.3	0.16	0.18	0.15	0.22	NA	NA	NA	0.07	0.16	0.15
Hydrogen (nmol/L)	---	NA	NA	NA	NA	NA	NA	NA	0.28	1.1	1.8	0.63	1.2	24	NA	NA	NA	<0.030	0.94	1.3

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.

Sample Location		MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-12	MW-12
Date Sampled	TYPE 3/4 RRS mg/L	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	Dec-13	Jun-14	Dec-14	Jun-15	Oct-98	Dec-00
<u>VOCs (mg/L)</u>																				
Chloroethane	---	<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	<0.010	<0.010	<0.010	<0.010	ND	<0.010
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	<0.005	<0.005	NA	<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	<0.005	<0.005	ND	<0.005
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	<0.005	<0.005	NA	<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	<0.005	<0.005	ND	<0.005
1,1-Dichloroethene	0.52	<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	<0.005	<0.005	<0.005	<0.005	ND	<0.005
1,1-Dichloroethane	---	<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	<0.005	<0.005	ND	<0.005
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	<0.005	<0.005	<0.005	<0.005	NA	<0.005
cis -1,2-Dichloroethene	0.2	<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	<0.005	<0.005	<0.005	<0.005	ND	<0.005
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	<0.005	<0.005	NA	<0.005
Vinyl Chloride	0.0033	<0.001	<0.001	0.00036 J	<0.001	<0.001	<0.001	0.00095J	0.00031J	0.0025	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	ND	<0.010
<u>SVOCs (mg/L)</u>																				
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	<0.0200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Field Parameters</u>																				
pH (std. Units)	---	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	5.52	5.33	4.69	5.19	NA	4.97
Specific Conductance (mS/cm)	---	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	0.056	0.061	0.112	0.052	NA	0.02
Temperature (deg. C)	---	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	14.82	21.37	16.39	23.38	NA	15.32
Dissolved Oxygen (mg/L)	---	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	4.75	0.65	0.67	0.70	NA	2.80
ORP (mV)	---	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	155.9	136.1	279.1	168.7	NA	280.00
Turbidity (NTU)	---	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	3.9	6.51	11.9	3.6	NA	1.20
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
<u>Geochemical Natural Attenuation Parameters (mg/L)</u>																				
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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0
Chloride	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.40
Nitrate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05
Sulfate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.10
Total Alkalinity	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.40
Total Sulfide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	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	<0.007	<0.007	<0.007	<0.007	NA	0.00003
Ethane	---	0.0000018 J	<0.00001	0.000003 J	<0.00001	<0.00001	0.000002 J	0.000003J	<0.00001	0.000008 J	0.000004 J	NA	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	NA	<0.000005
Methane	---	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	0.11	0.74	0.007	0.62	NA	0.01
Hydrogen (nmol/L)	---	1.4	1.1	4.4	1.4	1.2	1.3	19	6.9	1.7	1.1	NA	NA	NA	NA	NA	NA	NA	NA	<0.030

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.

Sample Location		MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-15	MW-15	MW-15	MW-15
Date Sampled	TYPE 3/4 RRS mg/L	May-04	Dec-04	May-05	Jun-06	Apr-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13	Dec-13	Jun-14	Dec-14	Jun-15	Jun-99	Dec-00	Jun-06	Dec-06
<u>VOCs (mg/L)</u>																				
Chloroethane	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	<0.01	<0.001	<0.001
1,1,2,2-Tetrachloroethane	0.005	<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	<0.005	<0.005	NA	NA	<0.001	<0.001
1,1,1-Trichloroethane	13	<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	<0.005	<0.005	ND	<0.0050	<0.001	<0.001
1,1,2-Trichloroethane	0.005	<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	<0.005	<0.005	NA	NA	<0.001	<0.001
Trichloroethylene	0.0052	<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	<0.005	<0.005	ND	<0.0050	<0.001	<0.001
1,1-Dichloroethene	0.52	<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	<0.005	<0.005	NA	<0.0050	<0.001	<0.001
1,1-Dichloroethane	---	<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	<0.005	<0.005	NA	<0.0050	<0.001	<0.001
1,2-Dichloroethane	0.005	<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	<0.005	<0.005	NA	NA	<0.001	<0.001
cis -1,2-Dichloroethene	0.2	<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	<0.005	<0.005	ND	<0.0050	<0.001	<0.001
trans -1,2-Dichloroethene	---	<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	<0.005	<0.005	ND	<0.0050	<0.001	<0.001
Vinyl Chloride	0.0033	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	ND	<0.01	0.0012	0.0022
<u>SVOCs (mg/L)</u>																				
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Field Parameters</u>																				
pH (std. Units)	---	4.98	5.07	4.94	4.97	5.15	5.47	5.09	5.05	4.79	5.45	4.73	5.23	2.93	4.75	4.66	NA	6.47	5.92	6.06
Specific Conductance (mS/cm)	---	0.027	0.03	0.028	0.026	0.033	0.029	0.032	0.026	0.031	0.029	0.57	0.026	0.041	0.036	0.031	NA	0.23	0.251	0.243
Temperature (deg. C)	---	19.62	18.38	19.31	21.4	17.26	17.66	18.48	19.9	20.94	15.27	19.33	19.19	20.11	18.67	21.16	NA	17.29	26.5	20.68
Dissolved Oxygen (mg/L)	---	2.46	4.20	2.23	3.06	3.05	3.47	1.41	5.40	1.39	6.89	1.91	1.42	0.90	3.59	0.82	NA	0.00	0.35	0.28
ORP (mV)	---	160	269.0	275.5	325.6	144.1	246.9	283.9	-175.3	307.4	215.3	237.0	75.9	53.4	33.7	262.9	NA	-62.0	4.8	-262.9
Turbidity (NTU)	---	2.5	10.2	10	11.7	7.7	7.5	14.3	82.9	41.9	80.8	8.6	8.4	4.5	5.04	5.1	NA	1.0	0	0.9
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.6	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	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	9.90	NA	NA
Chloride	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.50	NA	NA
Nitrate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.05	NA	NA
Sulfate	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA	NA
Total Alkalinity	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	NA	NA
Total Sulfide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	NA	NA
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	0.0000085	0.0000081	<0.00001	<0.00001	NA	NA	NA	NA	NA	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	NA	0.0002	0.000088	0.000033
Ethane	---	<0.000005	<0.000005	<0.00001	<0.00001	NA	NA	NA	NA	NA	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	NA	0.00011	0.00002	0.000046
Methane	---	0.0034	0.0059	0.0022	0.000086	NA	NA	NA	NA	NA	<0.004	<0.004	<0.004	<0.004	<0.004	0.06	NA	9.4	8.8	8.5
Hydrogen (nmol/L)	---	NA	0.58	1.5	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2.5	3

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.

Sample Location		MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D	MW-16D
Date Sampled	TYPE 3/4 RRS mg/L	May-07	Jun-08	Apr-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13	Dec-13	Jun-14	Dec-14	Jun-15	May-07	Jun-08	Apr-09	Dec-09	May-10	Nov-10
<u>VOCs (mg/L)</u>																				
Chloroethane	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethylene	0.0052	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	0.52	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis -1,2-Dichloroethene	0.2	0.0011	0.0011	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans -1,2-Dichloroethene	---	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	0.0033	0.0014	0.0012	0.00045J	<0.001	0.0015	0.0015	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
<u>SVOCs (mg/L)</u>																				
1,4-Dioxane (p-Dioxane)	---	NA	NA	<0.0211	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Field Parameters</u>																				
pH (std. Units)	---	6.06	5.25	5.96	5.80	6.07	5.81	5.45	5.97	6.07	5.96	5.84	5.10	5.70	11.1	9.79	12.09	11.51	11.48	12.67
Specific Conductance (mS/cm)	---	0.375	0.193	0.109	0.072	0.243	0.197	0.047	0.198	0.219	0.11	0.136	0.074	0.082	0.444	0.294	4.56	0.705	1.58	1.581
Temperature (deg. C)	---	22.36	24.42	19.2	17.94	21.82	23.77	25.66	19.8	21.32	21.78	24.38	21.64	25.56	20.73	21.83	19.82	18.18	20.54	16.99
Dissolved Oxygen (mg/L)	---	0.4	0.35	1.22	0.74	0.19	0.42	0.44	0.70	0.39	0.42	0.38	0.49	0.34	0.71	0.75	4.64	5.95	5.89	5.47
ORP (mV)	---	-48.7	33.6	45.8	28.3	-33.9	-319.2	61.9	-20.8	-41.5	20.7	-41.7	-95.6	40.2	138.9	272.3	-55.9	-59.2	120.4	6.5
Turbidity (NTU)	---	0	0.2	9.7	2.7	4.8	1.8	2.68	8.0	4.3	7.1	3.8	2.00	4.90	12	5.8	6.2	18.9	2.6	12.6
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	NA	NA	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	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
Chloride	---	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
Sulfate	---	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
Total Sulfide	---	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
Ethene	---	0.00009	0.000049	0.000004J	0.000004J	0.000053 J	0.000024	NA	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	NA	NA	NA	NA	NA	NA
Ethane	---	0.000095	0.000028	0.000014	<0.00001	0.000055 J	0.000006 J	NA	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	NA	NA	NA	NA	NA	NA
Methane	---	8.6	6.2	2.4	0.54	7.7 J	1.9	NA	7.5	6.9	5.3	3.5	0.58	3.3	NA	NA	NA	NA	NA	NA
Hydrogen (nmol/L)	---	3.1	69	0.62	11.0	2.2	1.8	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.

Sample Location		MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	
Date Sampled	TYPE 3/4 RRS mg/L	Sep-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13	Dec-13	Jun-14	Dec-14	Jun-15	Sep-09	Dec-09	May-10	DUP-2	Nov-10	May-12	Dec-12	Jun-13	
<u>VOCs (mg/L)</u>																					
Chloroethane	---	0.0011	0.0012	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010	<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	<0.005	<0.005	<0.005	<0.005	<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	<0.005	<0.005	<0.005	<0.005	<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	<0.005	<0.005	<0.005	<0.005	<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	<0.005	<0.005	<0.005	<0.005	<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	0.0025	0.0022	0.0019	0.0019	<0.005	<0.005	<0.005	<0.005	<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	---	0.00085J	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<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	<0.005	<0.005	<0.005	<0.005	<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	0.0021	0.0019	0.0013	0.0020	<0.005	<0.005	<0.005	<0.005	<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	<0.005	<0.005	<0.005	<0.005	<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	0.0051	0.0038	0.0035	0.0038	0.0033	0.0028	0.0032	0.0038	0.0029	0.003	<0.002	0.502	0.113	2.02	2.01	0.198	0.83	0.33	2.9	
<u>SVOCs (mg/L)</u>																					
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<u>Field Parameters</u>																					
pH (std. Units)	---	5.32	5.76	5.70	5.63	5.72	5.91	5.58	5.72	5.61	5.51	5.61	5.85	6.19	5.66	5.66	6.27	5.55	5.87	5.85	
Specific Conductance (mS/cm)	---	0.173	0.221	0.361	0.276	0.355	0.354	0.291	0.241	0.239	0.28	0.218	0.408	0.413	0.477	0.477	0.374	0.315	0.364	0.434	
Temperature (deg. C)	---	28.05	20.6	23.25	23.11	24.61	20.48	23.55	21.47	24.74	21.9	26.69	23.76	17.84	18.52	18.52	18.54	20.36	16.78	17.61	
Dissolved Oxygen (mg/L)	---	0.28	0.29	0.45	0.63	1.2	0.78	0.5	0.12	0.72	0.25	0.56	0.26	0.26	0.27	0.27	0.44	1.3	0.70	0.37	
ORP (mV)	---	138.9	-30.8	12.5	-313.2	6.9	0.4	-39.1	8.6	-36.6	-21.4	27.0	-36.6	-49.2	-14.0	-14.0	-12.1	36.4	-22.8	-28.4	
Turbidity (NTU)	---	9.7	10.1	21.4	6.9	7.49	7.1	4.4	8.2	2.23	2.23	4.2	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	
<u>Geochemical Natural Attenuation Parameters (mg/L)</u>																					
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	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	
Nitrate	---	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	
Total Alkalinity	---	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	
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ethene	---	0.00066	0.00045	0.00065 J	0.00028	NA	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	0.78	0.37	0.99 J	1.4	0.77	NA	0.47	0.37	
Ethane	---	0.00033	0.0015	0.00099 J	0.00063	NA	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	0.022	0.014	0.049 J	0.1	0.029	NA	0.081	0.063	
Methane	---	3.7	3.8	2.5 J	3.8	NA	6.8	7.2	6.9	4.1	7.1	5.3	3.7	1.4	6.9 J	15	5.8	NA	7.0	5.3	
Hydrogen (nmol/L)	---	27	5.8	0.98	7.2	NA	NA	NA	NA	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.

Sample Location		MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20D
Date Sampled	TYPE 3/4 RRS mg/L	Dec-13	Jun-14	Sep-14	Nov-14	Dec-14	Jun-15	Sep-09	Dec-09	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13	Dec-13	Jun-14	Dec-14	Jun-15	Sep-09
<u>VOCs (mg/L)</u>								DUP-1												
Chloroethane	---	0.340	0.270	0.022	NA	0.180	0.027	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001
1,1,2,2-Tetrachloroethane	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
1,1,1-Trichloroethane	13	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0053
1,1,2-Trichloroethane	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Trichloroethylene	0.0052	0.280	0.450	4.10	4.20	1.10	0.89	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.012
1,1-Dichloroethene	0.52	0.200	0.270	2.00	2.90	0.59	0.59	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0191
1,1-Dichloroethane	---	0.012	0.044	0.018	0.035	0.046	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00099 J
1,2-Dichloroethane	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
cis -1,2-Dichloroethene	0.2	0.087	0.220	0.250	0.740	0.180	0.190	0.0016	0.0032	0.0031	0.0027	0.0020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0152
trans -1,2-Dichloroethene	---	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Vinyl Chloride	0.0033	0.300	0.420	0.120	0.370	0.240	0.490	0.0102	0.0115	0.0116	0.0083	0.0067	0.0068	0.0051	<0.002	0.0046	0.0048	0.0037	0.0039	0.0071
<u>SVOCs (mg/L)</u>																				
1,4-Dioxane (p-Dioxane)	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Field Parameters</u>																				
pH (std. Units)	---	6.3	5.73	5.36	NA	4.77	5.21	5.67	5.87	5.87	4.93	5.62	5.66	5.95	5.62	5.76	5.77	5.81	5.57	6.14
Specific Conductance (mS/cm)	---	0.397	0.338	0.176	NA	0.141	0.180	0.306	0.311	0.311	0.326	0.313	0.294	0.459	0.369	0.274	0.328	0.305	0.329	0.145
Temperature (deg. C)	---	18.42	20.72	26	NA	19.65	22.14	24.03	18.94	18.94	19.8	20.8	22.50	18.65	20.28	20.38	24.10	16.87	24.26	23.21
Dissolved Oxygen (mg/L)	---	4.06	0.35	0.43	NA	0.29	0.28	0.37	0.35	0.35	0.29	0.48	0.83	2.15	0.53	0.09	1.38	0.5	0.7	1.79
ORP (mV)	---	-38.8	16.6	130.3	NA	-61.3	119.1	7.5	-23.3	-23.3	44.1	64.9	6.1	-58.9	-42.5	-23.4	17.3	6.7	1.9	40.2
Turbidity (NTU)	---	8.6	3.2	45	NA	7.43	6.1	9.5	14.1	14.1	3.9	9.8	3.85	12.6	2.9	16.7	1.27	10.1	46.7	364.3
Iron II (mg/L)	---	NA	NA	NA	NA	NA	NA	NA	NA	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	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
Chloride	---	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
Sulfate	---	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
Total Sulfide	---	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
Ethene	---	0.38	0.26	0.028	NA	0.065	0.130	0.0022	0.0019	0.0054	0.00081 J	0.00048	NA	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	NA
Ethane	---	0.041	0.037	<0.009	NA	0.01	0.015	0.00082	0.0005	0.0021	0.00019 J	0.00014	NA	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	NA
Methane	---	5.4	4.8	0.9	NA	1.2	2.2	7.3	4.4	13	7.2 J	5	NA	5.8	8.9	6.1	5.4	3.2	4.9	NA
Hydrogen (nmol/L)	---	NA	NA	NA	NA	NA	NA	5.4	1.1	NA	0.93	1.5	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.

Sample Location		MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21
Date Sampled	TYPE 3/4 RRS mg/L	Dec-09	May-10	Nov-10	May-12	Dec-12	Jun-13	Dec-13	Jun-14	Dec-14	Jun-15	May-12	Dec-12	Jun-13	Dec-13	Jun-14	Dec-14	Jun-15
VOCs (mg/L)																		
Chloroethane	---	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	13	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	0.005	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethylene	0.0052	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	0.52	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	---	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.005	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis -1,2-Dichloroethene	0.2	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans -1,2-Dichloroethene	---	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride	0.0033	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0075	0.005	0.0071	0.0082	0.006	<0.002	0.0025
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)	---	5.80	4.95	4.36	4.38	4.84	4.43	5.12	4.55	4.44	4.51	5.93	6.05	5.95	6.42	5.04	5.95	5.76
Specific Conductance (mS/cm)	---	0.084	0.053	0.043	0.050	0.153	0.093	0.051	0.048	0.062	0.053	0.398	0.472	0.476	0.462	0.424	0.342	0.175
Temperature (deg. C)	---	19.25	21.2	20.83	22.27	19.69	20.98	21.04	23.57	18.52	23.44	20.98	17.32	18.03	17.64	21.62	18.39	21.24
Dissolved Oxygen (mg/L)	---	2.08	2.09	0.41	1.01	2.11	0.76	5.27	1.9	0.79	1.12	1.79	0.71	2.46	4.18	0.32	0.42	0.29
ORP (mV)	---	181.5	262.6	-305.3	266.7	241.8	143.9	4.04	229.3	230.1	330.9	-20.6	-34.5	-50.2	-27	-6.7	-88.8	23.2
Turbidity (NTU)	---	73.8	5.6	200.1	9.40	19.7	9.7	9.0	9.5	7.09	4.5	25.8	7.7	2.2	9	6.37	9.90	6.20
Iron II (mg/L)	---	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
Total Organic Carbon	---	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
Nitrate	---	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
Total Alkalinity	---	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
Carbon Dioxide	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	---	NA	NA	NA	NA	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	NA	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Ethane	---	NA	NA	NA	NA	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	NA	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
Methane	---	NA	NA	NA	NA	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	NA	7.1	7.5	8.4	3.4	2.3	3.2
Hydrogen (nmol/L)	---	NA	NA	NA	NA	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: MHA 7/30/2015

Checked by: TRK 8/11/2015

Table 5
Summary of Surface Water Analytical Results

Sample Location	SW-1	SW-2									SW-3
Date Sampled	4/13/2009	4/13/2009	5/17/2010	5/30/2012	12/13/2012	6/6/2013	12/5/2013	6/5/2014	12/3/2014	6/18/2015	4/13/2009
<u>VOCs (mg/L)</u>											
Chloroethane	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001
1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
1,1,1-Trichloroethane	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
1,1,2-Trichloroethane	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Trichloroethylene	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
1,1-Dichloroethene	<0.001	<0.001	0.0006 ^J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
1,1-Dichloroethane	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
1,2-Dichloroethane	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
<i>cis</i> -1,2-Dichloroethene	0.00096 ^J	<0.001	0.00098 ^J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
<i>trans</i> -1,2-Dichloroethene	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
Vinyl Chloride	0.00044 ^J	0.00048 ^J	0.00042 ^J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001

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

Table 5
Summary of Surface Water Analytical Results

Sample Location Date Sampled	SW-4							
	5/17/2010	5/30/2012	12/13/2012	6/6/2013	12/5/2013	6/5/2014	12/3/2014	6/18/2015
<u>VOCs (mg/L)</u>								
Chloroethane	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
1,1,2,2-Tetrachloroethane	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethylene	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<i>cis</i> -1,2-Dichloroethene	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<i>trans</i> -1,2-Dichloroethene	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride	<0.001	<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

Table 5
Summary of Surface Water Analytical Results

Sample Location Date Sampled	SW-5							SW-6						
	5/30/2012	12/13/2012	6/6/2013	12/5/2013	6/5/2014	12/3/2014	6/18/2015	5/30/2012	12/13/2012	6/6/2013	12/5/2013	6/5/2014	12/3/2014	6/18/2015
<u>VOCs (mg/L)</u>														
Chloroethane	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<i>cis</i> -1,2-Dichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<i>trans</i> -1,2-Dichloroethene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Prepared by: MHA 7/31/2015
Checked by: TRK 8/11/2015

Notes:

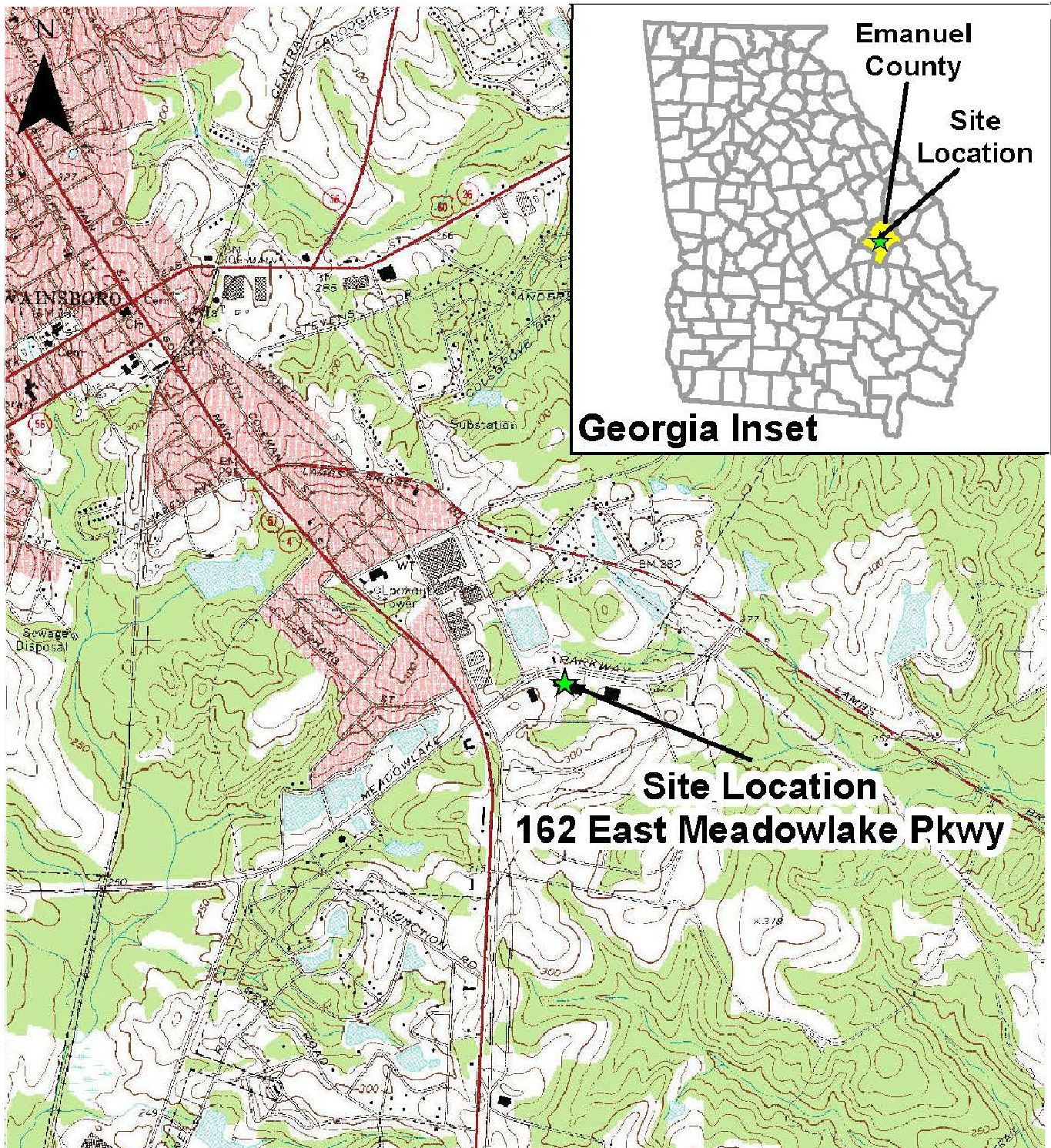
J - Qualification flags were placed on values that were below the laboratory reporting limit but greater than the method detection limit. Concentration reported is estimated
NA = not analyzed

TABLE 6: SUMMARY OF HOURS INVOICED AND DESCRIPTION OF SERVICES

	Hours Invoiced	Billing Period	Invoice #	Description of Services
Gregory J. Wrenn, P.E.	8.5	1/24/2015-2/20/2015	H081001843	Finalize and Submit VRP Progress Report No. 6
Total Project Hours for Billing Period	35.5		2/25/2015	Coordinate and oversee repair of damaged monitoring well in warehouse
Gregory J. Wrenn, P.E.	2.0	2/21/2015-3/20/2015	H081001919	Coordinate and oversee repair of damaged monitoring well in warehouse
Total Project Hours for Billing Period	3.5		3/26/2015	Shipping charges for submittal of VRP Status Report No. 6 Subcontractor and expense charges for repair of damaged monitoring well in warehouse.
Gregory J. Wrenn, P.E.	6.0	3/21/2015-6/20/2015	H081002176	Coordinate and conduct groundwater sampling event
Total Project Hours for Billing Period	88.5		6/26/2015	Initiate preparation of response to EPD request for surface water monitoring data
Gregory J. Wrenn, P.E.	4.5	6/21/2015-7/24/2015	H081002248	Preparation of draft VRP Progress Report No. 7
Total Project Hours for Billing Period	7.7		7/31/2015	Field expenses/equipment for groundwater/surface water sampling event
Total Hours for PE Gregory J. Wrenn	21.0			
Total Project Hours	135.2			

Prepared by: MHA 8/5/2015
Checked by: TRK 8/11/2015

FIGURES



Source: USGS 7.5 Minute Topographic Quadrangle, Swainsboro Quad

0 1,000 2,000
Feet

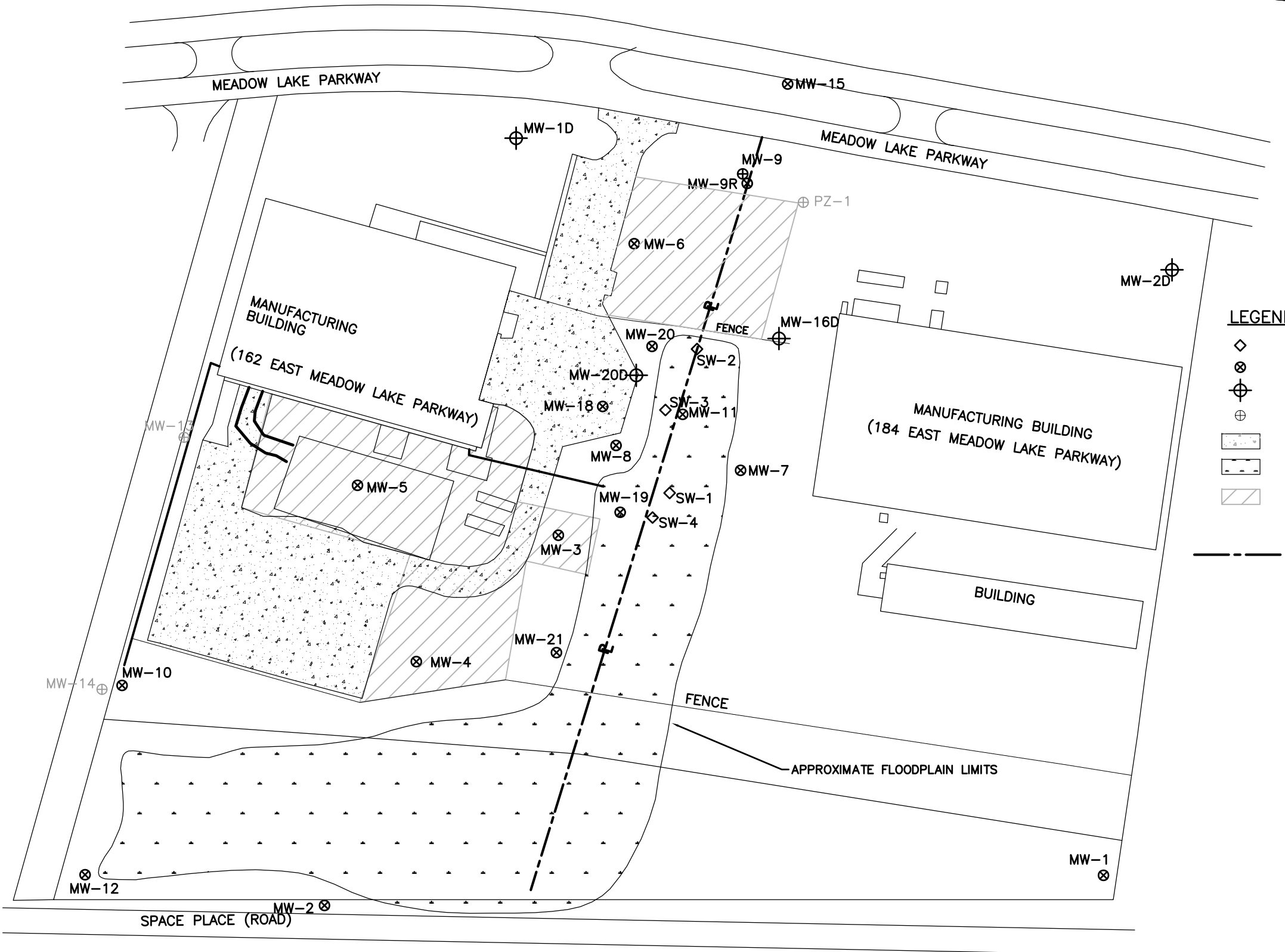
FORMER AUTOMATIC
SPRINKLER SITE
162 E. MEADOWLAKE PKWY
SWAINSBORO, GA

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

SITE LOCATION MAP

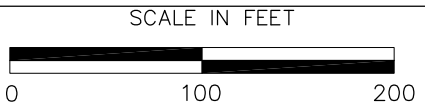
JOB NO. 6125-08-0149 FIGURE 1

PREPARED BY/DATE
CHECKED BY/DATE



LEGEND

- ◇ SURFACE WATER MONITORING LOCATION
- ⊗ SHALLOW MONITORING WELL
- ⊕ DEEP MONITORING WELL
- ⊕ ABANDONED WELL
- ▨ PAVED SURFACE
- ▨ FLOODPLAIN
- ▨ RECENTLY CONSTRUCTED PARKING AREA (PAVED) AND BUILDINGS
- PROPERTY LINE



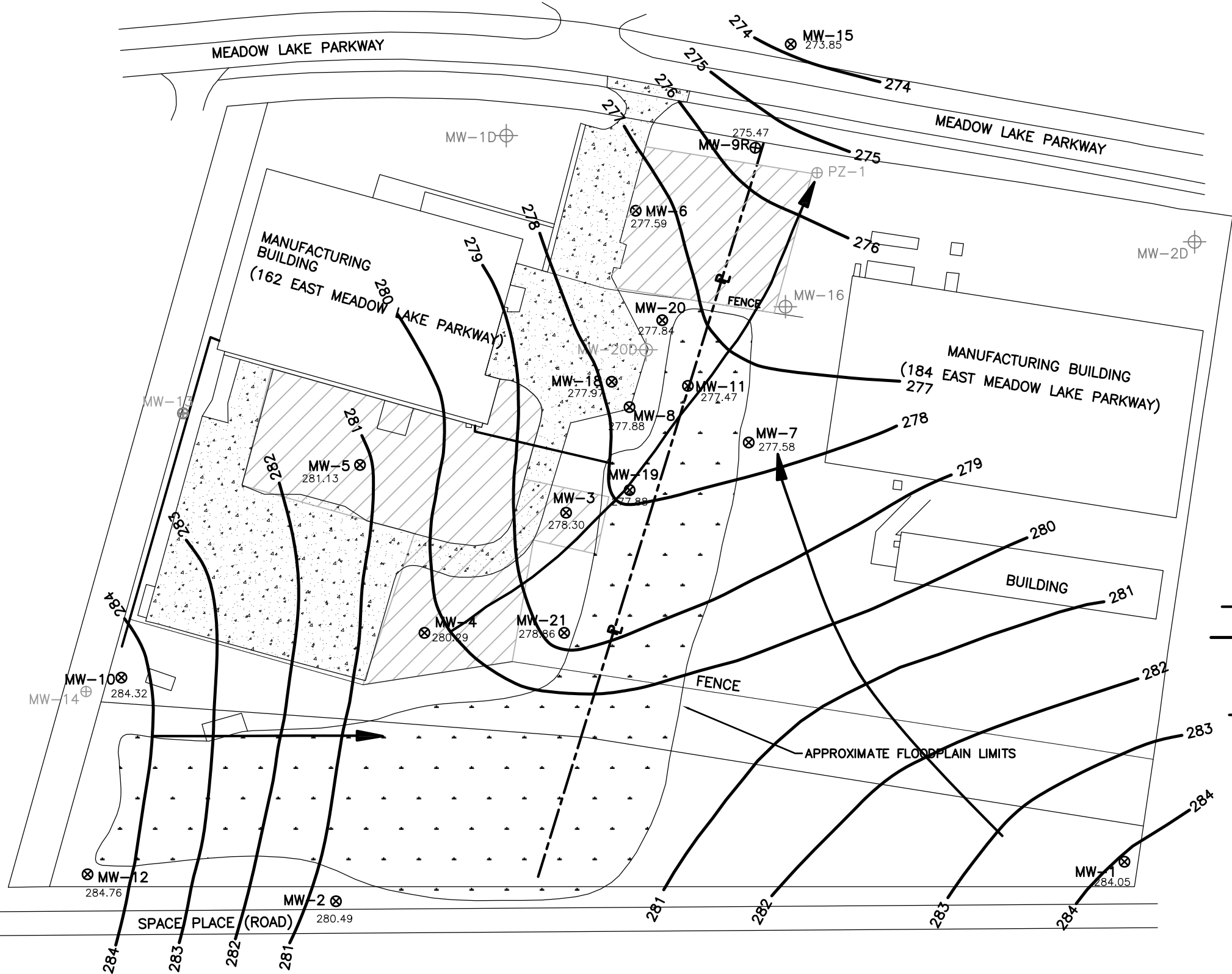
SOURCE: BASE MAP EMCON, 12/98 AND 6/99. GIS, AND ESRI WEBMAP SERVICE.

FORMER AUTOMATIC SPRINKLER SITE
162 EAST MEADOWLAKE PKWY
SWAINSBORO, GEORGIA

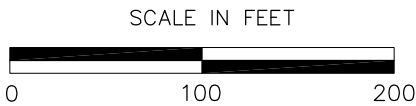
amec foster wheeler
Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD, NW, SUITE 100
KENNESAW, GEORGIA 30144 (770) 421-3400

FIGURE 2
SITE LAYOUT MAP

JOB NO. 6125-08-0149



- LEGEND**
- ⊗ SHALLOW MONITORING WELL
 - ⊕ DEEP MONITORING WELL
 - ⊕ ABANDONED WELL
 - ▨ PAVED SURFACE
 - ▨ FLOODPLAIN
 - ▨ RECENTLY CONSTRUCTED PARKING AREA (PAVED) AND BUILDINGS
 - PROPERTY LINE
 - 282 POTENTIOMETRIC CONTOUR (FT MSL)
 - 283.10 GROUNDWATER SURFACE ELEVATION (FT MSL)
 - NM NOT MEASURED
 - DIRECTION OF GROUNDWATER FLOW



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

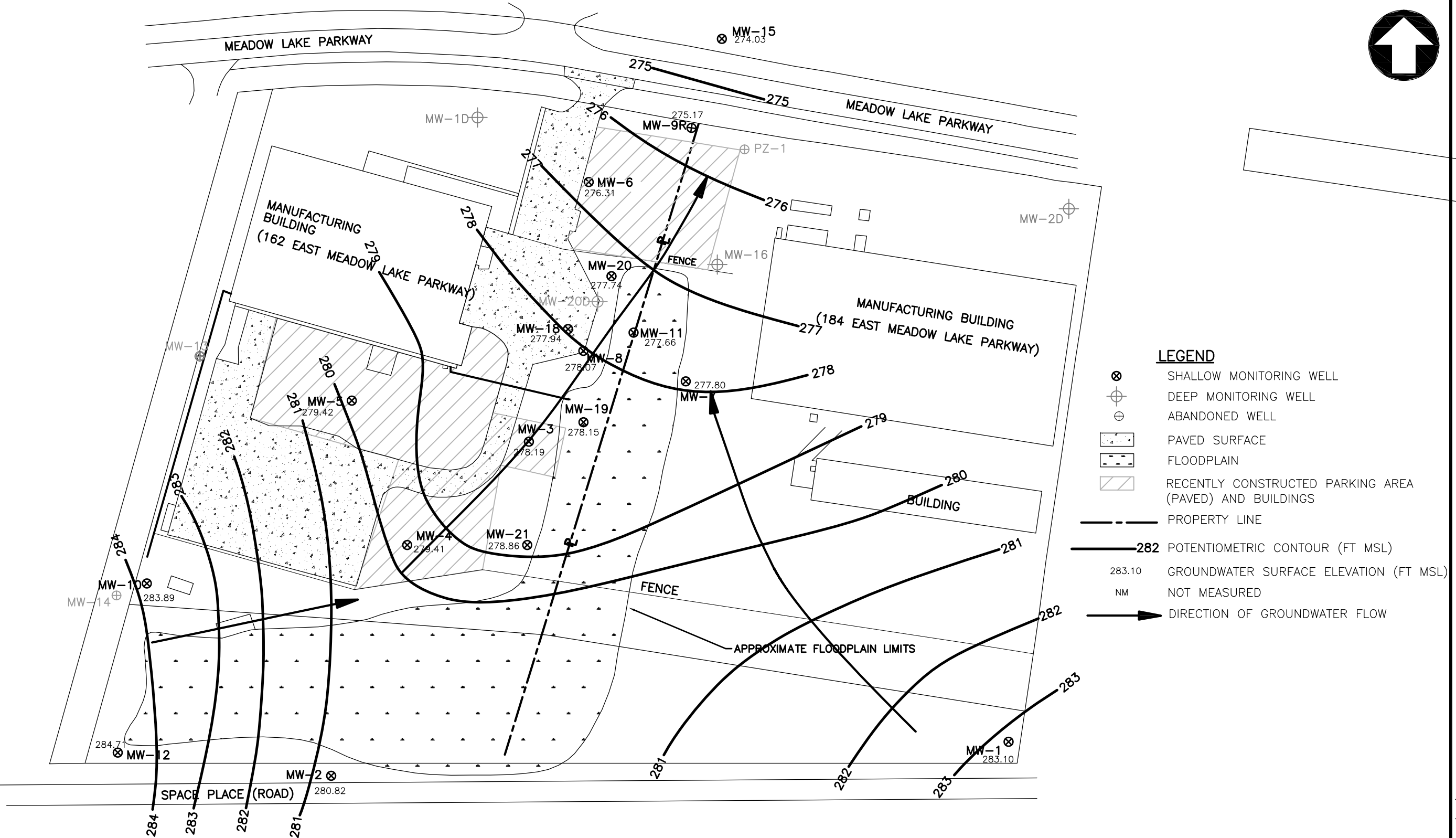
FORMER AUTOMATIC SPRINKLER SITE
162 EAST MEADOWLAKE PKWY
SWAINSBORO, GEORGIA

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

FIGURE 3a
SHALLOW ZONE
POTENTIOMETRIC SURFACE MAP
JUNE 2015

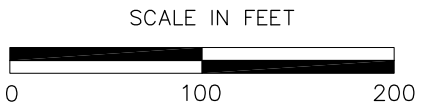
JOB NO. 6125-08-0149

PREPARED BY/DATE MHA 8/6/2015
CHECKED BY/DATE TRK 8/6/2015



LEGEND

- ⊗ SHALLOW MONITORING WELL
- ⊕ DEEP MONITORING WELL
- ⊕ ABANDONED WELL
- ▨ PAVED SURFACE
- ▨ FLOODPLAIN
- ▨ RECENTLY CONSTRUCTED PARKING AREA (PAVED) AND BUILDINGS
- PROPERTY LINE
- 282 POTENTIOMETRIC CONTOUR (FT MSL)
- 283.10 GROUNDWATER SURFACE ELEVATION (FT MSL)
- NM NOT MEASURED
- ➔ DIRECTION OF GROUNDWATER FLOW



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

FORMER AUTOMATIC SPRINKLER SITE
162 EAST MEADOWLAKE PKWY
SWAINSBORO, GEORGIA

amec foster wheeler

Environment & Infrastructure, Inc.

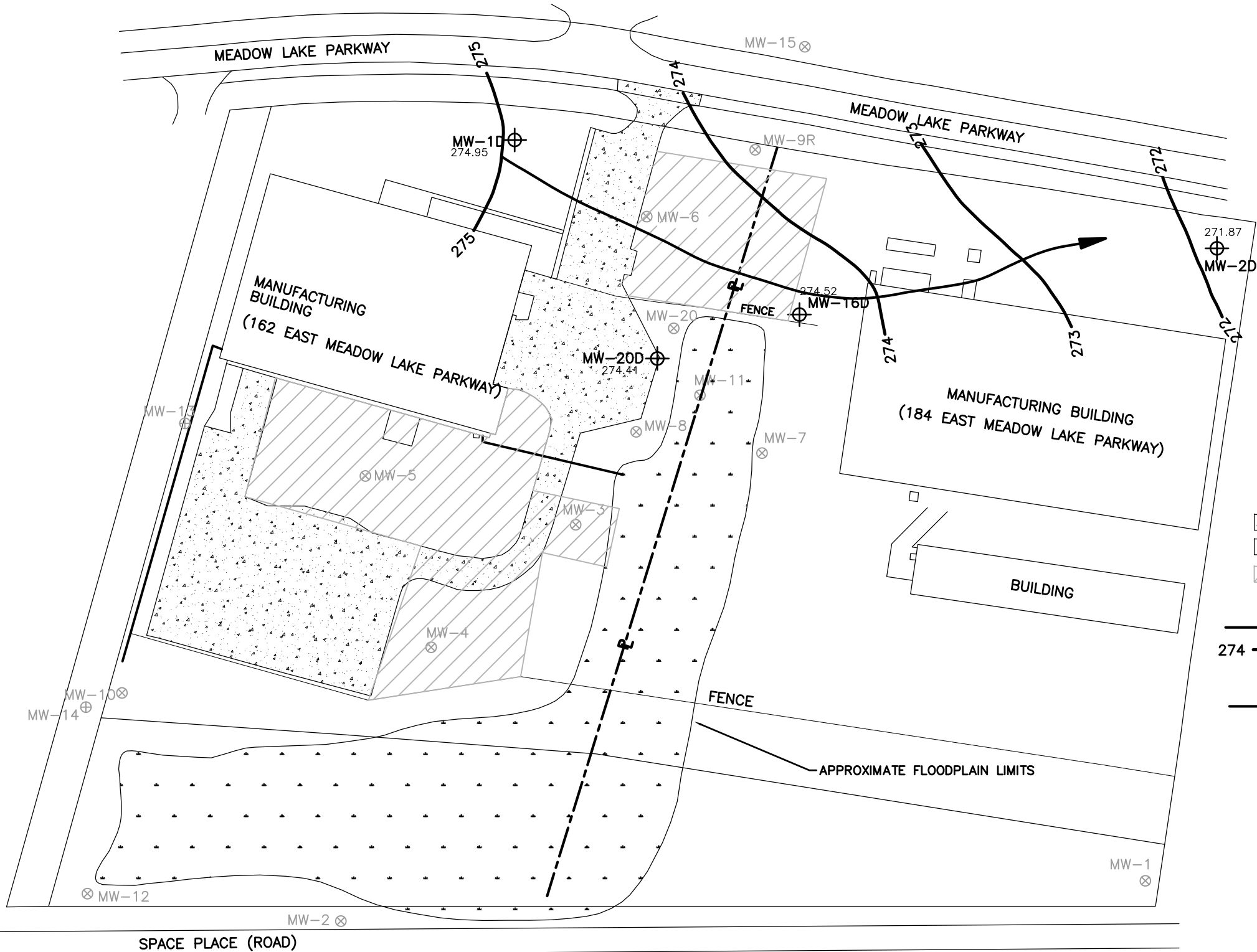
1075 BIG SHANTY ROAD, NW, SUITE 100
KENNESAW, GEORGIA 30144 (770) 421-3400

FIGURE 3b
SHALLOW ZONE
POTENTIOMETRIC SURFACE MAP
DECEMBER 2014

JOB NO. 6125-08-0149

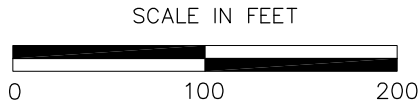
PREPARED BY/DATE
TRK 1/20/2015

CHECKED BY/DATE
TRK 1/27/2015



LEGEND

- ⊗ SHALLOW MONITORING WELL
- ⊕ DEEP MONITORING WELL
- ▨ PAVED SURFACE
- ▤ FLOODPLAIN
- ▧ RECENTLY CONSTRUCTED PARKING AREA (PAVED) AND BUILDINGS
- PROPERTY LINE
- 274 — POTENTIOMETRIC CONTOUR LINE (FT MSL)
- 273.03 — GROUNDWATER SURFACE ELEVATION (FT MSL)
- ➔ DIRECTION OF GROUNDWATER FLOW



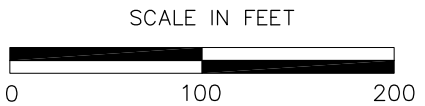
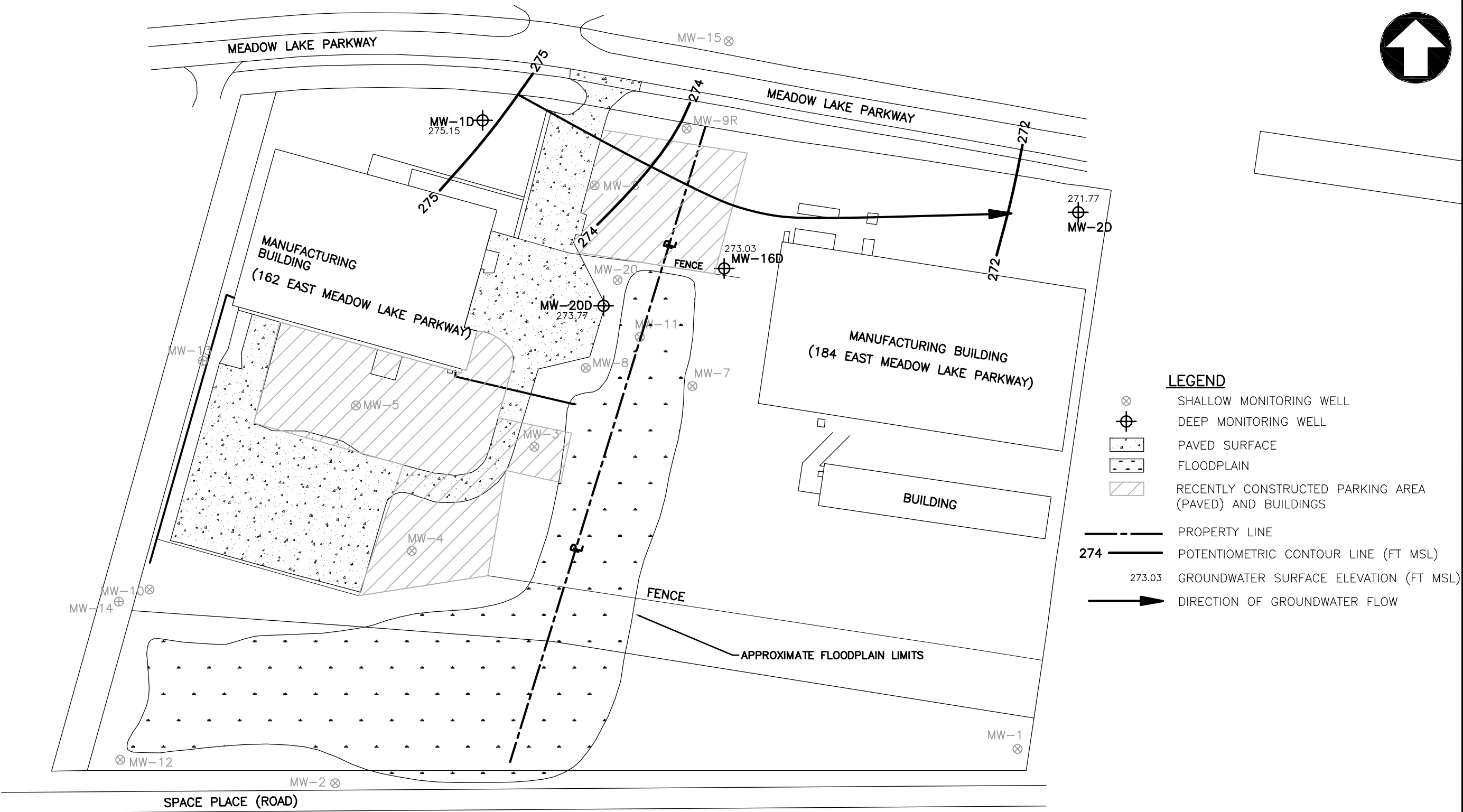
SOURCE: EMCON, 12/98 AND 6/99

FORMER AUTOMATIC SPRINKLER SITE
162 EAST MEADOWLAKE PKWY
SWAINSBORO, GEORGIA

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

FIGURE 4a
DEEP ZONE
POTENTIOMETRIC SURFACE MAP
JUNE 2015

JOB NO. 6125-08-0149



SOURCE: EMCON, 12/98 AND 6/99

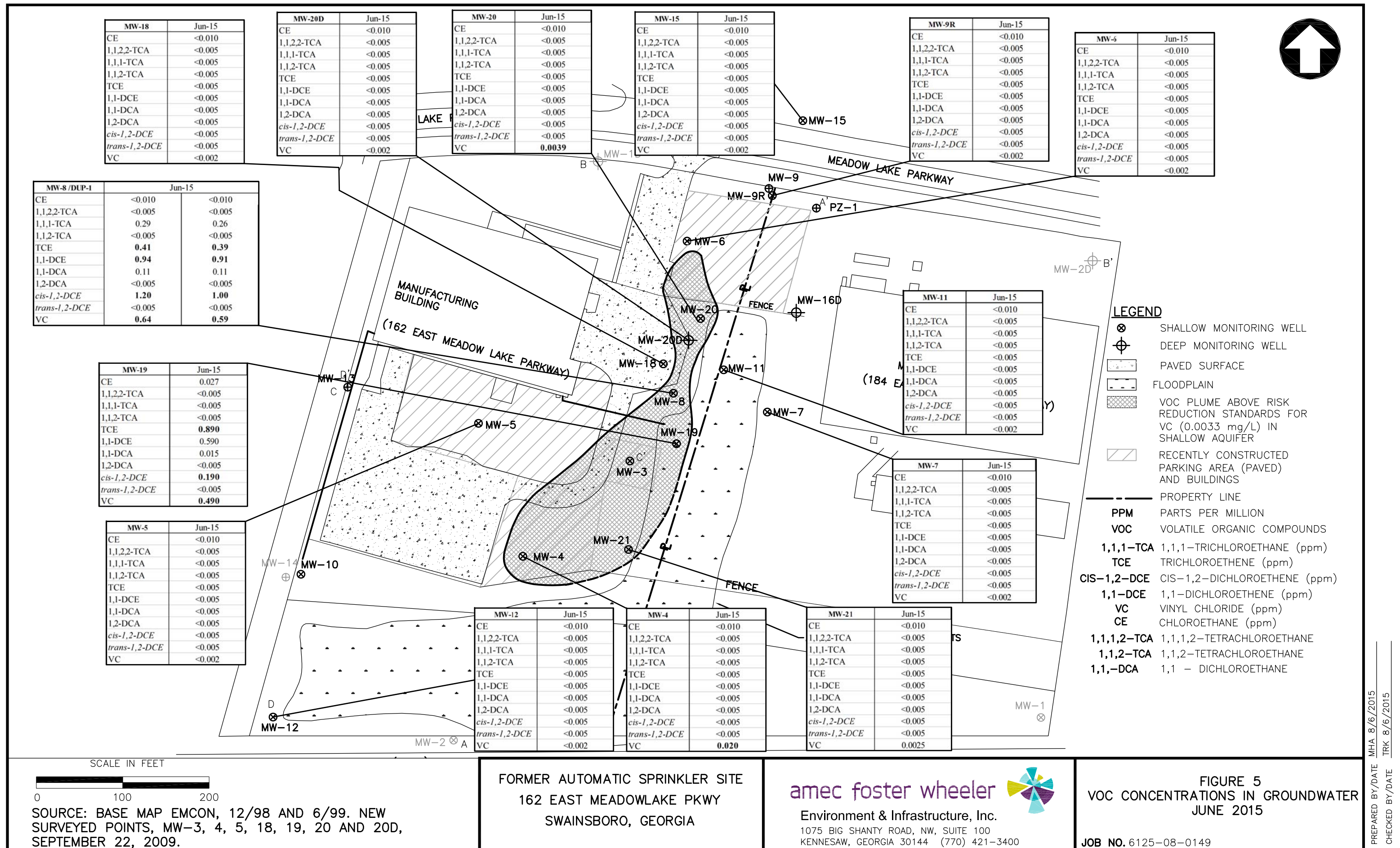
FORMER AUTOMATIC SPRINKLER SITE
162 EAST MEADOWLAKE PKWY
SWAINSBORO, GEORGIA

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

FIGURE 4b
DEEP ZONE
POTENTIOMETRIC SURFACE MAP
DECEMBER 2014

JOB NO. 6125-08-0149

PREPARED BY/DATE
TRK 1/20/2015
CHECKED BY/DATE
TRK 1/27/2015



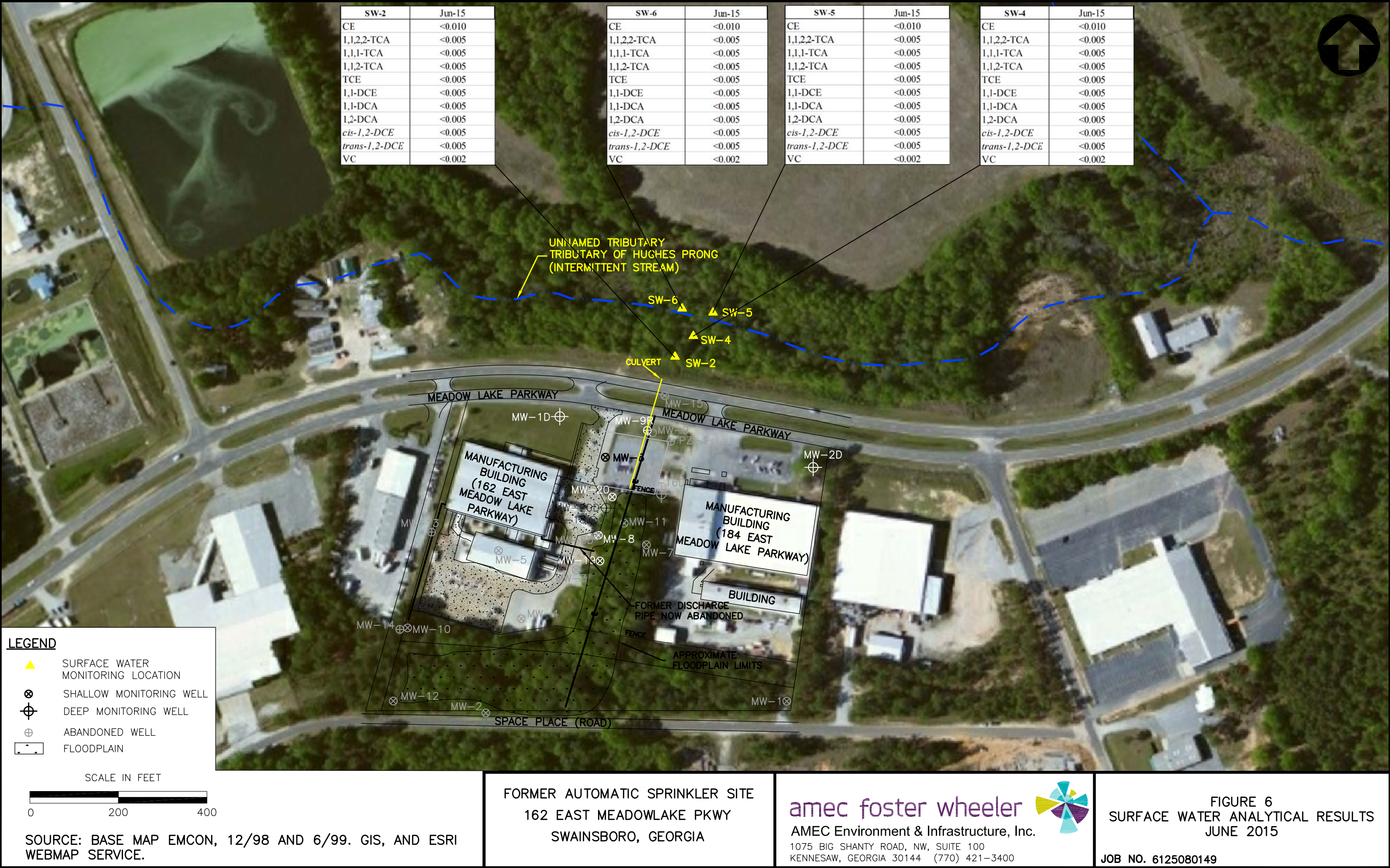
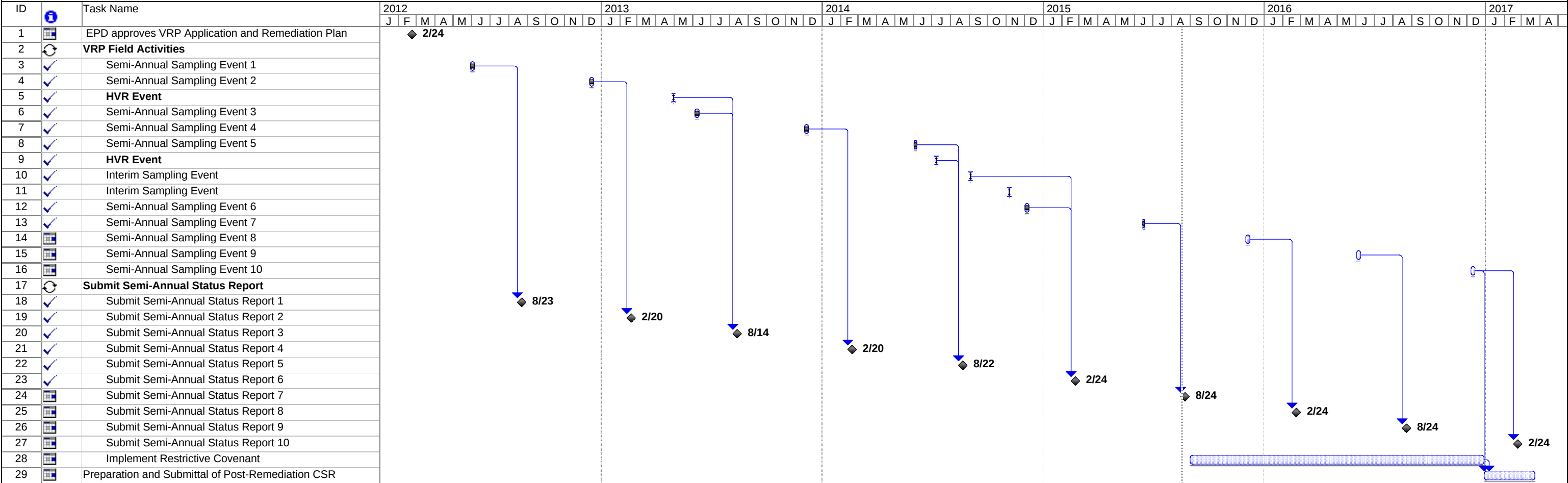


FIGURE 7
UPDATED SCHEDULE FOR VRP IMPLEMENTATION
FORMER AUTOMATIC SPRINKLER SITE, SWAINSBORO, GA



APPENDIX A

WELL PURGING/GROUNDWATER SAMPLING LOGS

Project Number:

PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLE METHOD: PERISTALTIC "soda straw method"

WELL DIAMETER: 2"

DEPTH TO WATER: 1.59 GRAB (x) COMPOSITE ()

TOTAL DEPTH: 14.80

WATER COLUMN HEIGHT: 13.21 $\times 1.7 = 2.24 \times 3.0 = 6.73$

PURGE VOLUME: 6.73

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

Water Has Grayish Color. Tubing intake $\approx 10'$ (approximate midstream)
Tubing type = teflon lined

SAMPLE TIME: 1710

HCL

GENERAL INFORMATION

SAMPLER: EVER GUILLEN

OBSERVER:

MHA
Revised
8/18/15

WELD SAMPLING REPORT

Project Number:

AMEC, E&I

1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144

PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: 1ST QUARTER 2ND QUARTER 3RD QUARTER 4TH QUARTER

MONITORING WELL TYPE: Standard Compliance Background Extraction

WELL ID: MAZ-5

WELL MATERIAL: PVC

SAMPLE METHOD: peristaltic pump "600g string method"

WELL DIAMETER: 52"

DUP./REP. OF:

DEPTH TO WATER: 5.50

GRAB (x) COMPOSITE ()

Top of Screened Interval (btoc):_____

TOTAL DEPTH: 17.92

Screen length: 9.7'

TOTAL DEPTH: 17.92

Arrived at: 1201

TOTAL DEPTH: 17.92

Initial PID = _____

WATER COLUMN HEIGHT: _____

Balling PID = _____

PURGE VOLUME:

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

SAMPLE DATE: 6/18/15

SAMPLE TIME: 124

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
100 ml / Vial	2	HCl	8260	Sitn VOCs
100 ml / Vial	2	HCl	SOP-RSLITS	Gas GCs

GENERAL INFORMATION	
WEATHER:	Sunny Clear Hot
SHIPPED VIA:	Delivered to AES laboratory
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340
SAMPLER: Mark A.	OBSERVER:

MHA
Revised
8/18/15

PROJECT NAME: STI

FIELD SAMPLING REPORT

Project Number:

AMEC, E&I

1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144

PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: 1ST QUARTER 2ND QUARTER 3RD QUARTER 4TH QUARTERMONITORING WELL TYPE: Standard Compliance Background ExtractionWELL ID: MW-6WELL MATERIAL: PVCSAMPLE METHOD: PERISTALTIC "Soda Straw Method"

DUP./REP. OF: _____

WELL DIAMETER: 2"DEPTH TO WATER: 3.41 GRAB (x) COMPOSITE ()TOTAL DEPTH: 13.21WATER COLUMN HEIGHT: 9.8 $\times .17 = 1.66 \times 3 = 4.99$ PURGE VOLUME: 4.99

Top of Screened Interval (btoc): _____

Screen length: 10'

Arrived at: _____

Initial PID = _____

Bailing PID = _____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1150	0.25	1.19	29.3	5.80	0.199	25.71	75.3	200 ()	3.77
1155	.15	0.56	8.9	5.81	0.204	25.77	25.5	200	3.81
1200	.75	0.42	-0.6	5.81	0.205	26.16	12.0	200	3.85
1205	1.0	0.38	-6.9	5.83	0.206	26.42	9.4		3.87
1210	1.25	0.32	-18.1	5.86	0.192	27.25	4.6		3.89
1215	1.5	0.30	-18.4	5.84	0.185	27.49	5.1		3.90
1220	1.75	0.29	-18.4	5.83	0.183	27.57	5.2		3.90
1225	2.0	0.31	-18.6	5.83	0.181	27.64	5.0		3.90
1230	2.25	0.30	-18.5	5.83	0.180	27.72	4.9		3.91
1235	Collect		Sample						

SAMPLE DATE: 06-18-15SAMPLE TIME: 1235

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 ML VIAL	4	HCL		

GENERAL INFORMATION

WEATHER:	<u>HOT - HUMID - Clear</u>
SHIPPED VIA:	<u>Delivered to AES laboratory</u>
SHIPPED TO:	<u>AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340</u>
SAMPLER:	<u>EVER GUILLEN</u>
OBSERVER:	

MHA
Revised
8/18/15

Project Number:

PHONE: (770) 421-3400 / FAX: (770) 421-3486

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

SAMPLE TIME: 1033

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 ml/vial	2	HCl	8260	Site VOCs
40 ml/vial	2	HCl	8260-RSK176	GAES

GENERAL INFORMATION	
WEATHER:	Sunny Clear Hot
SHIPPED VIA:	Delivered to AES laboratory
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340
SAMPLER: Mark A.	OBSERVER:

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8/18/15

Project Number:

PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLE METHOD: Peristaltic Pump "Soda Stream Method"

DUP./REP. OF: DUP-1

WELL DIAMETER: 2'

DEPTH TO WATER: 3.40 GRAB (x) COMPOSITE ()

TOTAL DEPTH: 11.48

WATER COLUMN HEIGHT:

Top of Screened interval (btoc):_____

Screen length: 10'

Arrived at: 1715

Initial P/D =

Balling PID = _____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

SAMPLE DATE: 6/17/15
SAMPLE TIME: 1310

GENERAL INFORMATION	
WEATHER:	Sunny clear Hot
SHIPPED VIA:	Delivered to AES laboratory
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340
SAMPLER:	MARK A
OBSERVER:	

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Revised
8/18/15

FIELD SAMPLING REPORT

Project Number:

AMEC, E&I

1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144

PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT:	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER
-----------------	-------------	-------------	-------------	-------------

MONITORING WELL TYPE: Standard Compliance Background Extraction

WELL ID: MW-9R

WELL MATERIAL: PVC

SAMPLE METHOD: PERISTALTIC "Soda Straw Method"

DUP./REP. OF:

WELL DIAMETER: 2"

DEPTH TO WATER: 2.90 GRAB (x) COMPOSITE ()

TOTAL DEPTH: 11.58

WATER COLUMN HEIGHT: 8.68 $\times 1.7 = 1.47 \times 3 = 4.42$

PURGE VOLUME: 4.42

Top of Screened interval (btoc):_____

Screen length: 10'

Arrived at:

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

Initial PID =

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

Bailing PID = _____

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

SAMPLE DATE: 6-17-15

SAMPLE TIME: 1230

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 ML VIAL	4	HCL		

GENERAL INFORMATION	
WEATHER:	HOT-HUMID-CLEAR
SHIPPED VIA:	Delivered to AES laboratory
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340
SAMPLER: EVER BULLER	OBSERVER:

MHA
Revised
8/18/15

Project Number:

PHONE: (770) 421-3400 / FAX: (770) 421-3486

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

Tubing Intake = ~5' Tubing type = Teflon lined
(Approximate midscreen)

SAMPLE TIME: 11603

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 ml/vial	2	Hcl	4260	STP VOCs
40 ml/vial	2	Hcl	80P RSK-175	GA.SOS

WEATHER:	Sunny Hot
SHIPPED VIA:	Delivered to AES laboratory
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340
SAMPLER:	Mark A.
OBSERVER:	

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Revised
8/18/15

PROJECT NAME: STI

FIELD SAMPLING REPORT

Project Number:

AMEC, E&I

1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144

PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: 1ST QUARTER 2ND QUARTER 3RD QUARTER 4TH QUARTERMONITORING WELL TYPE: Standard Compliance Background ExtractionWELL ID: MW-12WELL MATERIAL: PVCSAMPLE METHOD: PERISTALTIC "Soda Straw Method"

DUP./REP. OF: _____

WELL DIAMETER: 2"DEPTH TO WATER: 3.33 GRAB (x) COMPOSITE ()TOTAL DEPTH: 7.02WATER COLUMN HEIGHT: 3.69 $X_{17} = 0.62 \times 3 = 1.88$ PURGE VOLUME: 1.88

Top of Screened Interval (btoc): _____

Screen length: 5'

Arrived at: _____

Initial PID = _____

Bailing PID = _____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1005	0.25	1.38	254.3	4.35	0.035	21.20	12.3	200 ()	3.93
1010	0.5	1.09	266.0	4.31	0.035	21.75	4.5		3.93
1015	0.75	1.11	272.5	4.43	0.034	21.90	4.1		
1020	1.0	0.92	280.1	4.44	0.031	21.65	4.7		
1025	1.25	0.86	289.2	4.34	0.030	21.09	5.3		
1030	1.5	0.77	275.4	4.45	0.031	21.15	4.5		
1035	1.75	0.72	265.4	4.61	0.031	21.16	4.9		
1040	2.0	0.83	264.4	4.63	0.031	21.13	5.1		
1045	2.25	0.76	263.8	4.64	0.031	21.14	5.0		
1050	2.5	0.82	262.9	4.66	0.031	21.16	5.1		
1055	Collect		Sample						
NOTES:	Tubing intake = 5' Tubing Type = Teflon lined (Approximate midscreen)								

SAMPLE DATE: 6-17-15SAMPLE TIME: 1055

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40ML VIAL	4	HCL		

GENERAL INFORMATION

WEATHER:	<u>Hot - Humid - Clear</u>
SHIPPED VIA:	<u>Delivered to AES laboratory</u>
SHIPPED TO:	<u>AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340</u>
SAMPLER:	<u>EVER GUILLEN</u>
OBSERVER:	

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Revised
8/18/15

Project Number:

PHONE: (770) 421-3400 / FAX: (770) 421-3486

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

SAMPLE TIME: 1415

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40ML VIAL	4	HCL		

GENERAL INFORMATION	
WEATHER:	HOT - HUMID - CLEAR
SHIPPED VIA:	Delivered to AES laboratory
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340
SAMPLER: EVER GUILLEN	OBSERVER:

MHA
Revised
8/18/15

FIELD SAMPLING REPORT

Project Number:

AMEC, E&I

1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144

PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: 1ST QUARTER 2ND QUARTER 3RD QUARTER 4TH QUARTER

MONITORING WELL TYPE: Standard Compliance Background Extraction

WELL ID: MU-18

WELL MATERIAL: PVC

SAMPLE METHOD: Peristaltic pump "Soln straw method"

DUP./REP. OF: _____

WELL DIAMETER: 2"

DEPTH TO WATER: 3.30 GRAB (x) COMPOSITE ()

TOTAL DEPTH: 14.20

WATER COLUMN HEIGHT: _____

Top of Screened Interval (btoc):_____

Screen length: 10'

PURGE VOLUME:

Arrived at: 1053 .

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

Initial PID =

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

Bailing PID = _____

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

SAMPLE DATE: 6/17/15

SAMPLE TIME: 11.53

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40ml/vial	2		8260	Sitp VOCs
40ml/vial	2		SOP RSL 175	GN5PS

GENERAL INFORMATION

WEATHER:	Sunny clear Hot
SHIPPED VIA:	Delivered to AES laboratory
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340
SAMPLER: Mark A	OBSERVER:

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Revised
8/18/15

PROJECT NAME: STI

FIELD SAMPLING REPORT

Project Number:

AMEC, E&I

1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144

PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: 1ST QUARTER 2ND QUARTER 3RD QUARTER 4TH QUARTERMONITORING WELL TYPE: Standard Compliance Background ExtractionWELL ID: MW-19WELL MATERIAL: PVCSAMPLE METHOD: PERISTALTIC "Solo straw method"

DUP./REP. OF: _____

WELL DIAMETER: 2"DEPTH TO WATER: 3.68 GRAB (x) COMPOSITE ()TOTAL DEPTH: 16.90WATER COLUMN HEIGHT: 12.42 $\times 1.17 = 2.16 \times 3 = 6.48$ PURGE VOLUME: 6.48

Top of Screened Interval (btoc): _____

Screen length: 10'

Arrived at: _____

Initial PID = _____

Bailing PID = _____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1015	0.25	0.74	109.2	5.08	0.1186	21.67	25.4	200 ()	4.02
1020	.5	0.46	114.8	5.05	0.182	20.53	19.6		4.02
1025	.75	0.55	116.5	5.08	0.181	21.36	18.9		
1030	1.0	0.44	118.5	5.11	0.180	21.56	18.0		
1035	1.25	0.38	120.9	5.14	0.180	22.02	19.7		
1040	1.5	0.35	121.9	5.16	0.180	21.80	18.3		
1045	1.75	0.32	120.6	5.18	0.180	21.99	17.2		
1050	2.0	0.28	120.1	5.19	0.180	21.97	12.4		
1055	2.25	0.25	119.8	5.20	0.180	22.0	9.9		
1100	2.5	0.28	119.1	5.21	0.180	22.14	6.1		
1105	collect sample								

SAMPLE DATE: 6-18-15SAMPLE TIME: 1105

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40ML VIAL	4	HCC		

GENERAL INFORMATION

WEATHER:	<u>HOT - HUMID - CLEAR</u>
SHIPPED VIA:	<u>Delivered to AES laboratory</u>
SHIPPED TO:	<u>AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340</u>
SAMPLER:	<u>EVER GUILLEN</u>
OBSERVER:	

MHA
Revised
8/18/15

Project Number:

PHONE: (770) 421-3400 / FAX: (770) 421-3486

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 ml/vial	2	HCl	8260	5.4% VOCs
40 ml/vial	2	HCl	SOP-RSK175	GAS 8260

WEATHER:	Sunny & clear Very Hot	
SHIPPED VIA:	Delivered to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER:	Mark A.	OBSERVER:

MHA
Revised
8/18/15

Project Number:

PHONE: (770) 421-3400 / FAX: (770) 421-3486

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

SAMPLE TIME: 14 38'

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 ml/Vial	2	HCl	8260	StP VOCs
40 ml/Vial	2	HCl	8260 Rev. 175	GAHCS

GENERAL INFORMATION	
WEATHER:	Sunny Clear Hot
SHIPPED VIA:	Delivered to AES laboratory
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340
SAMPLER: Mark A.	OBSERVER:

MHA
Revised
8/18/15

FIELD SAMPLING REPORT

Project Number:

AMEC, E&I

1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144

PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT:	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER
-----------------	-------------	-------------	-------------	-------------

MONITORING WELL TYPE: Standard Compliance Background Extraction

WELL ID: MW-21

WELL MATERIAL: PVC

SAMPLE METHOD: PERISTALTIC "Soda Straw Method"

DUP./REP. OF: _____

WELL DIAMETER: 2'

DEPTH TO WATER: 5.40 GRAB (x) COMPOSITE ()

TOTAL DEPTH: 17.51

WATER COLUMN HEIGHT: 12.11 $\times 17 = 2.05 \times 3 = 6.12$

PURGE VOLUME: 6.17

Top of Screened interval (btoc):_____

Screen length: 10'

Arrived at: _____

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

Initial PID =

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

Bailing PID = _____

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

SAMPLE DATE: 6-17-15
SAMPLE TIME: 1543

SAMPLE TIME: 1543

CONTAINER SIZE/TYPER	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40ML VIAL	4	HCL		

GENERAL INFORMATION	
WEATHER:	HOT-HUMID-Clear
SHIPPED VIA:	Delivered to AES laboratory
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340
SAMPLER: EVER GULLEN	OBSERVER:

MHA
Revised
8/18/15

Project Number:

AMEC, E&I

1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144

PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: 1ST QUARTER 2ND QUARTER 3RD QUARTER 4TH QUARTER

MONITORING WELL TYPE: Standard ☐ Compliance ☐ Background ☐ Extraction ☐

WELL ID: SW-2

WELL MATERIAL: PVC

SAMPLE METHOD: _____

DUP./REP. OF: _____

Top of Screened Interval (btoc): _____

Screen length: _____

Arrived at: _____

Initial PID = _____

Balling PID = _____

WELL DIAMETER: Surface water

DEPTH TO WATER: _____ GRAB (x) COMPOSITE ()

TOTAL DEPTH:

WATER COLUMN HEIGHT: _____

PURGE VOLUME:

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

SAMPLE DATE: 6/13/13

SAMPLE TIME: 14.25

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 ml/vial	2	Hcl	8260	Site VOCs

GENERAL INFORMATION

WEATHER:	Sun & clear Hot	
SHIPPED VIA:	Delivered to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER:	Frank G.	OBSERVER: Mark A.

FIELD SAMPLING REPORT

Project Number:

AMEC, E&I

1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144

PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: 1ST QUARTER 2ND QUARTER 3RD QUARTER 4TH QUARTER

MONITORING WELL TYPE: Standard Compliance Background Extraction

WELL ID: SW-4

WELL MATERIAL: PVC

SAMPLE METHOD: _____

DUP./REP. OF: _____

Top of Screened Interval (btoc):_____

Screen length: _____

Arrived at: _____

Initial PID = _____

Balling PID = _____

WELL DIAMETER: *Surface water*

DEPTH TO WATER: _____ GRAB (x) COMPOSITE ()

TOTAL DEPTH:

WATER COLUMN HEIGHT:

PURGE VOLUME:

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

SAMPLE DATE: 6/18/15
SAMPLE TIME: 1450

SAMPLE TIME: 1450

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
4.0 ml / vial	2	HCl	8260	5140 VOCs

GENERAL INFORMATION

WEATHER:	
SHIPPED VIA:	Delivered to AES laboratory
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340
SAMPLER:	OBSERVER:

Project Number:

PHONE: (770) 421-3400 / FAX: (770) 421-3486

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

SAMPLE TIME: 1525

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL Vial	2	HCl	8260	51+ VOCs

WEATHER:	Sunny Clear Hot	
SHIPPED VIA:	Delivered to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER:	Enviro 6	OBSERVER: Mark H

Project Number:

PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLE METHOD: _____

Bailing PID = _____

PURGE VOLUME:

[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

[illegible]

CONTAINER		
-----------	--	--

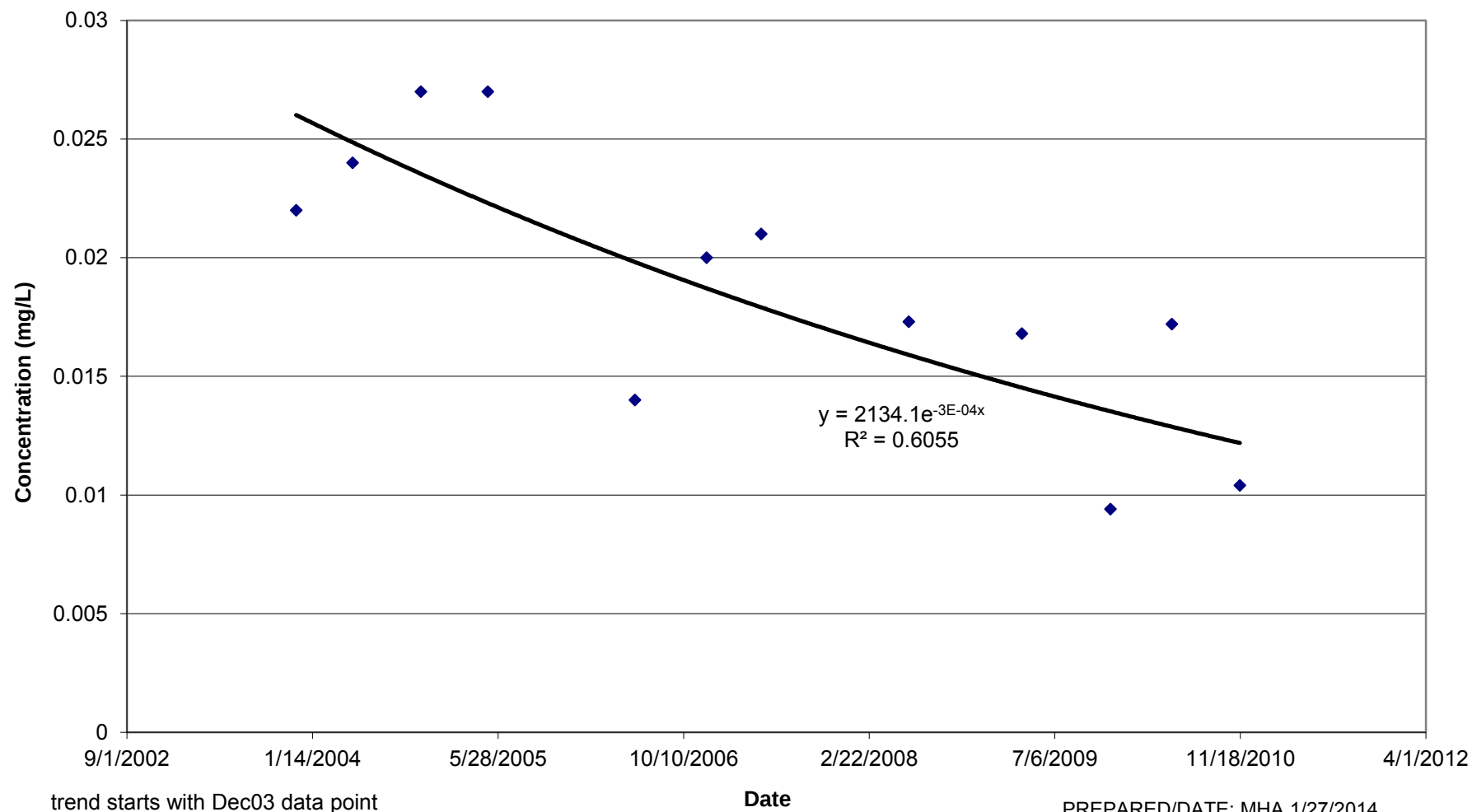
CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 ml vial	2	HCl	8260	5.4% VOCs

WEATHER:	Sunny Clear Hot
SHIPPED VIA:	Delivered to AES laboratory
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340
SAMPLER: <i>Frank G</i>	OBSERVER: <i>Mark A</i>

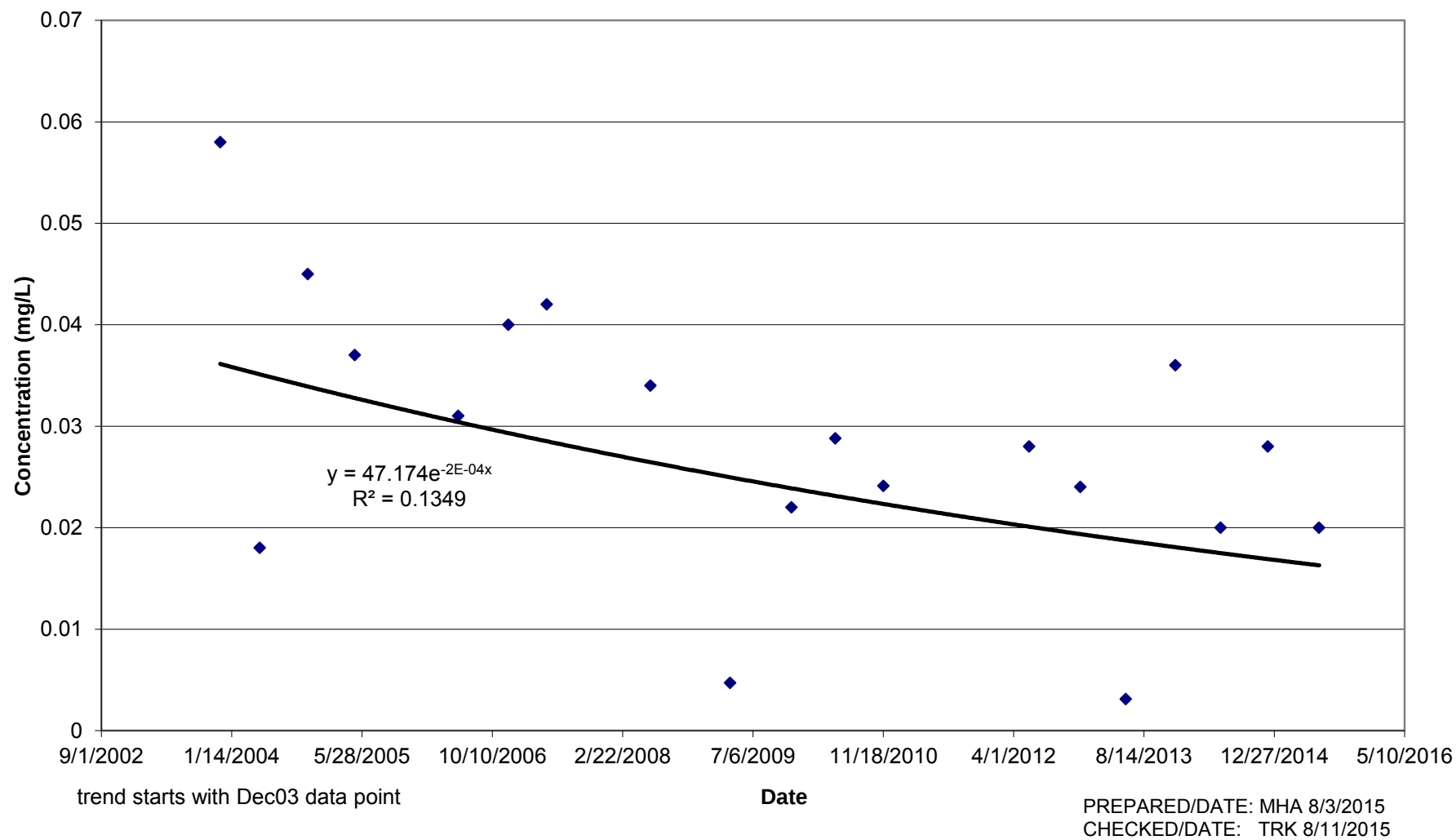
APPENDIX B

VOC CONCENTRATION TREND GRAPHS

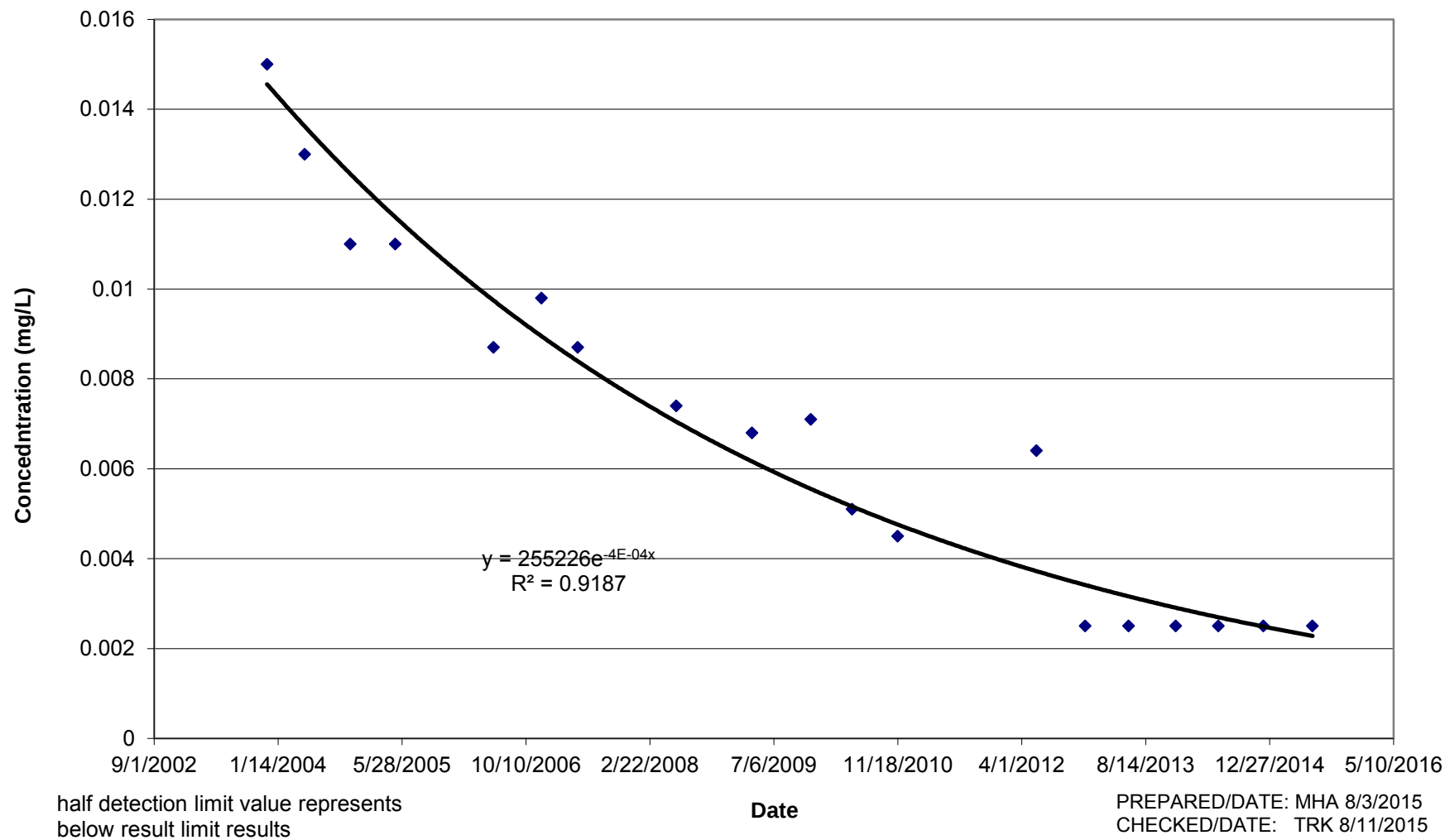
MW-3 Vinyl Chloride Concentration Versus Time Trend Plot



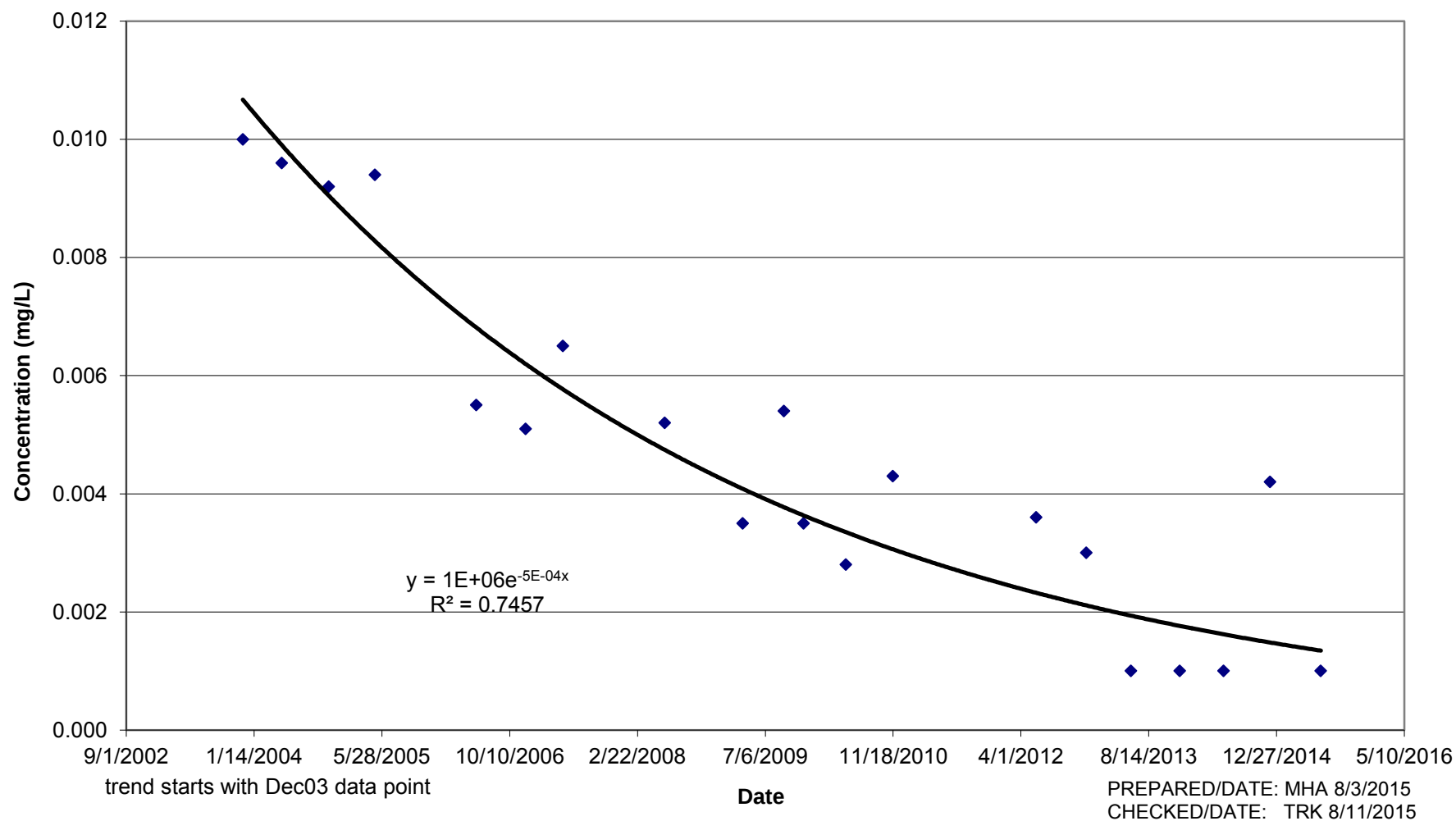
MW-4 Vinyl Chloride Concentration Versus Time Trend Plot



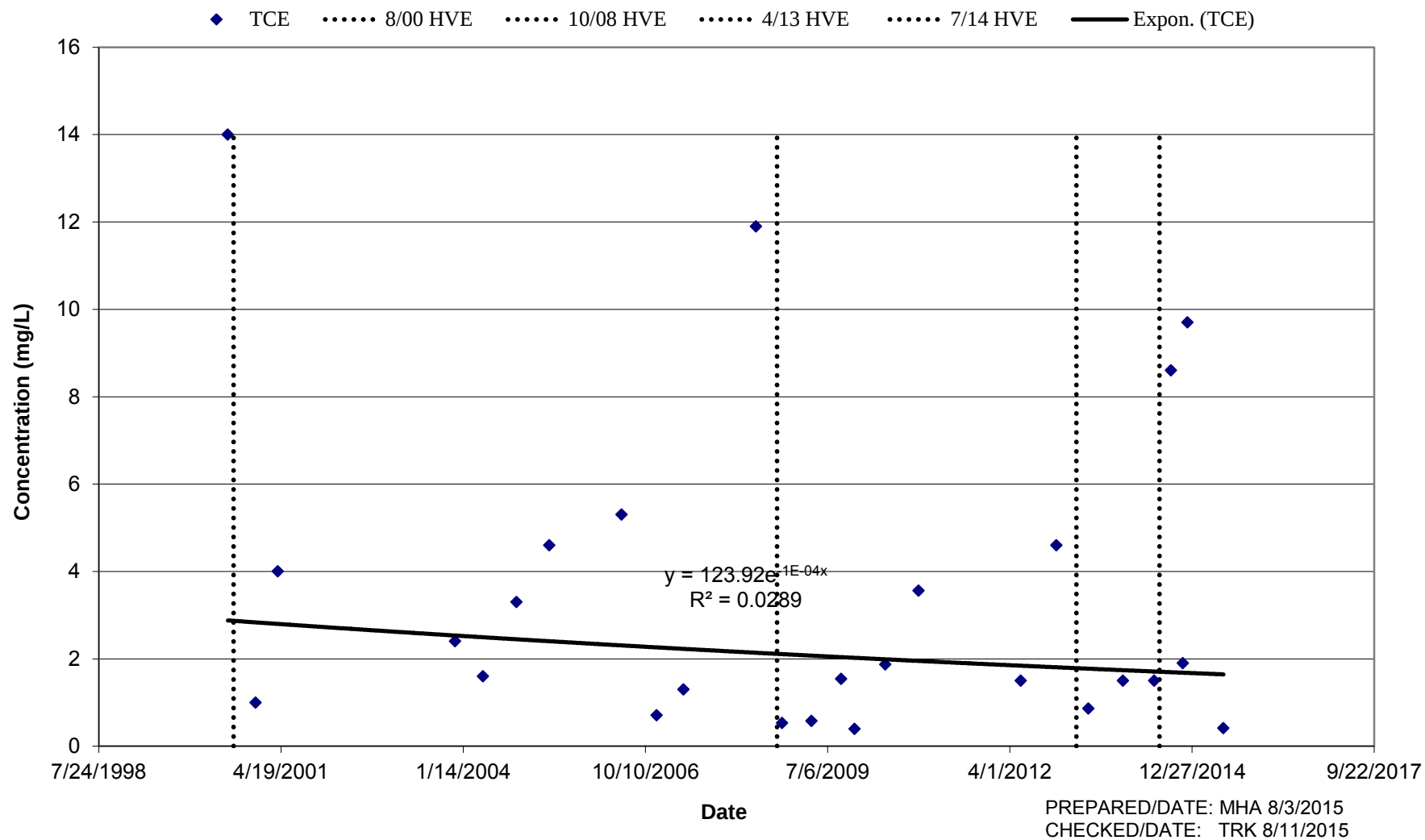
MW-5 1,1-Dichloroethene Concentration Versus Time Trend Plot



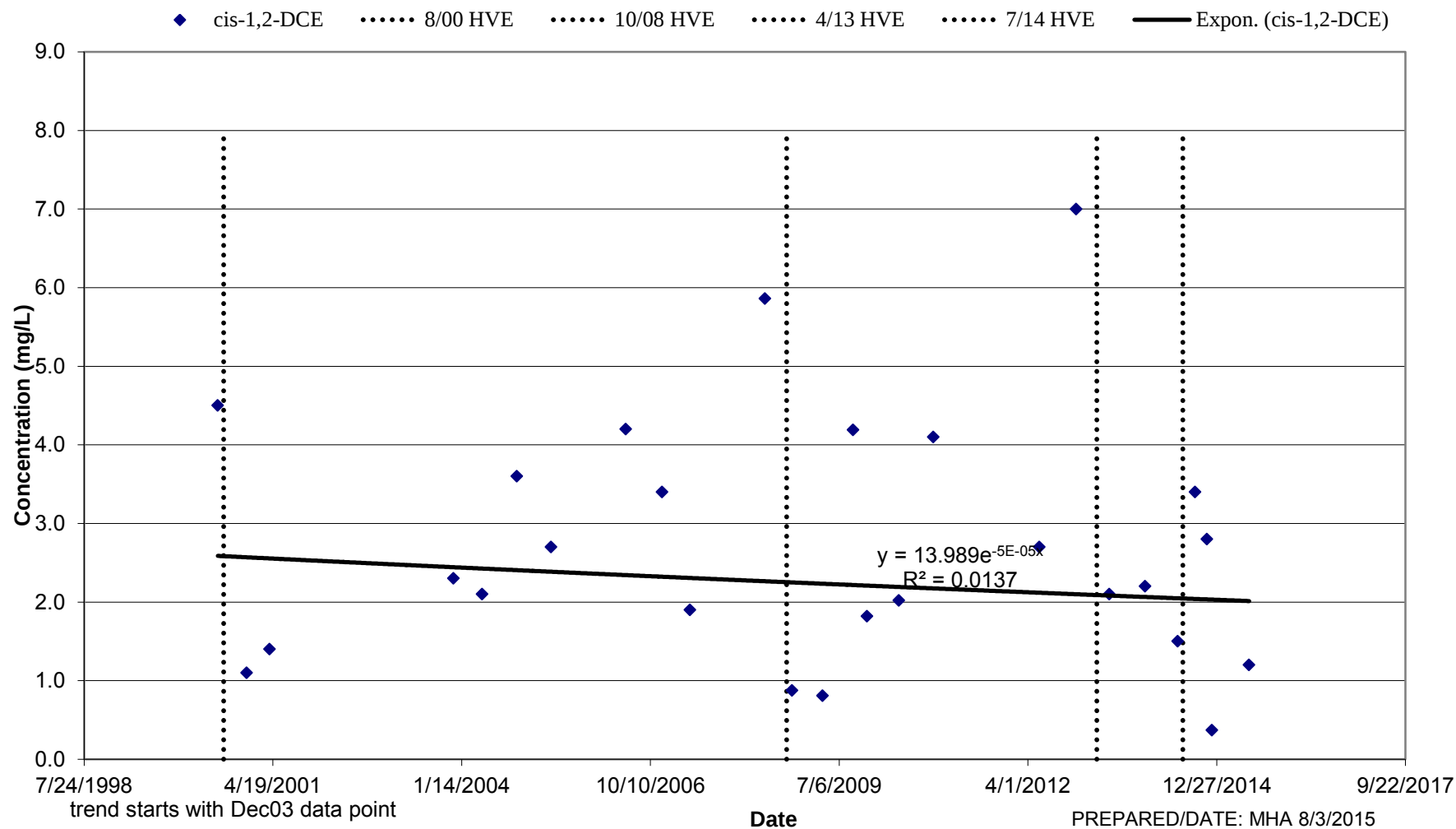
MW-6 Vinyl Chloride Concentration Versus Time Trend Plot

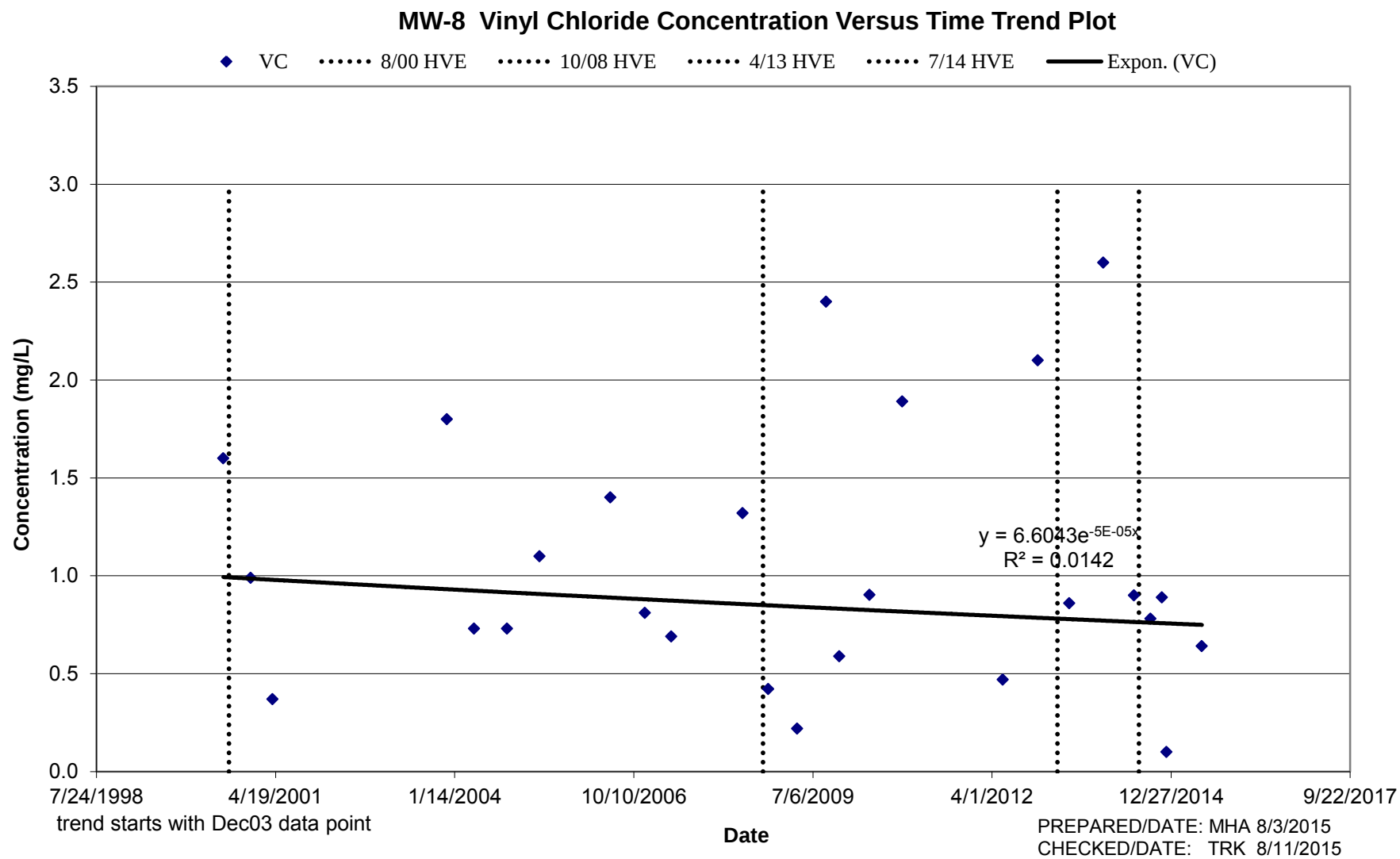


MW-8 Trichloroethene Concentration Versus Time Trend Plot

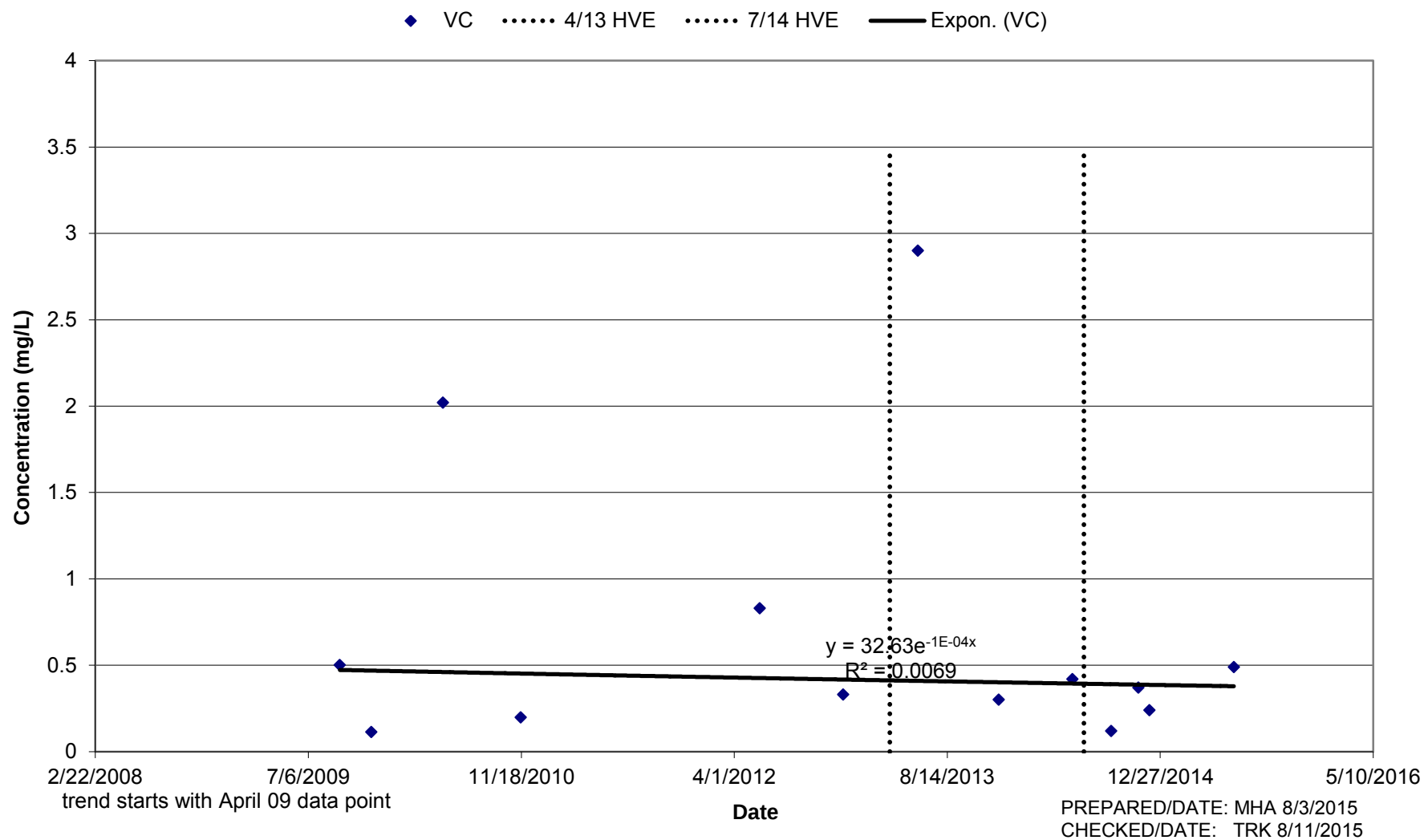


MW-8 cis-1,2-Dichloroethene Concentration Versus Time Trend Plot

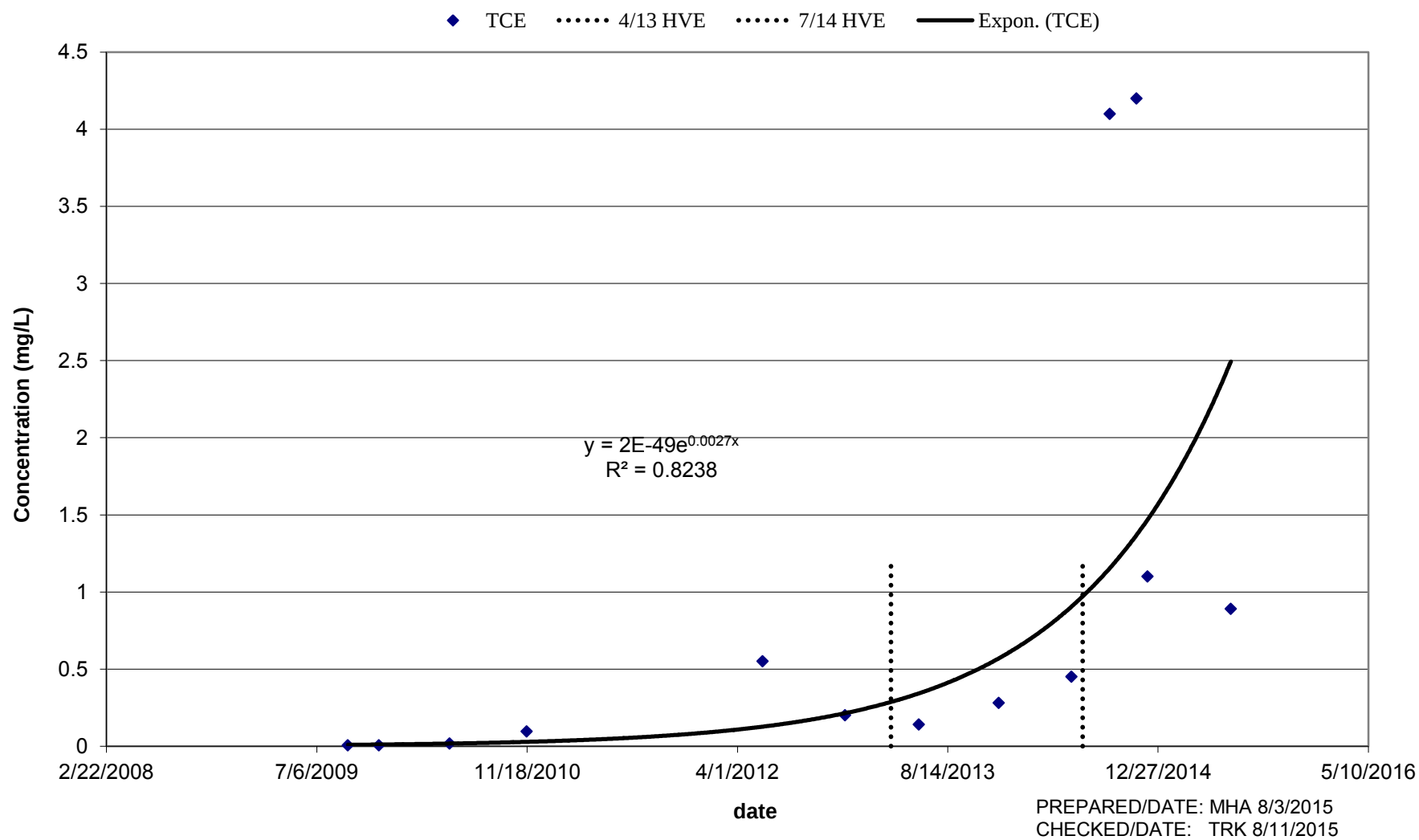




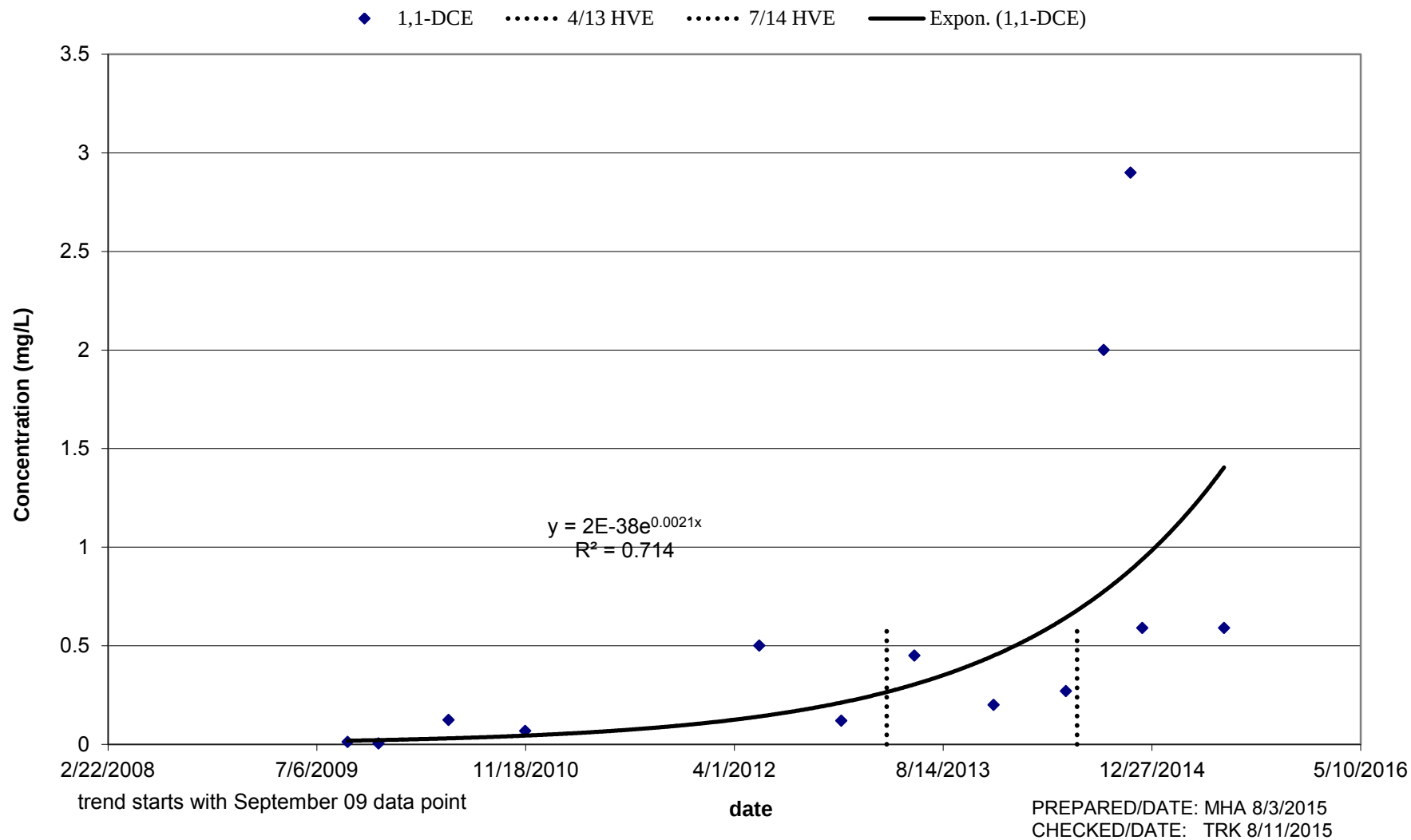
MW-19 Vinyl Chloride Concentration Versus Time Trend Plot



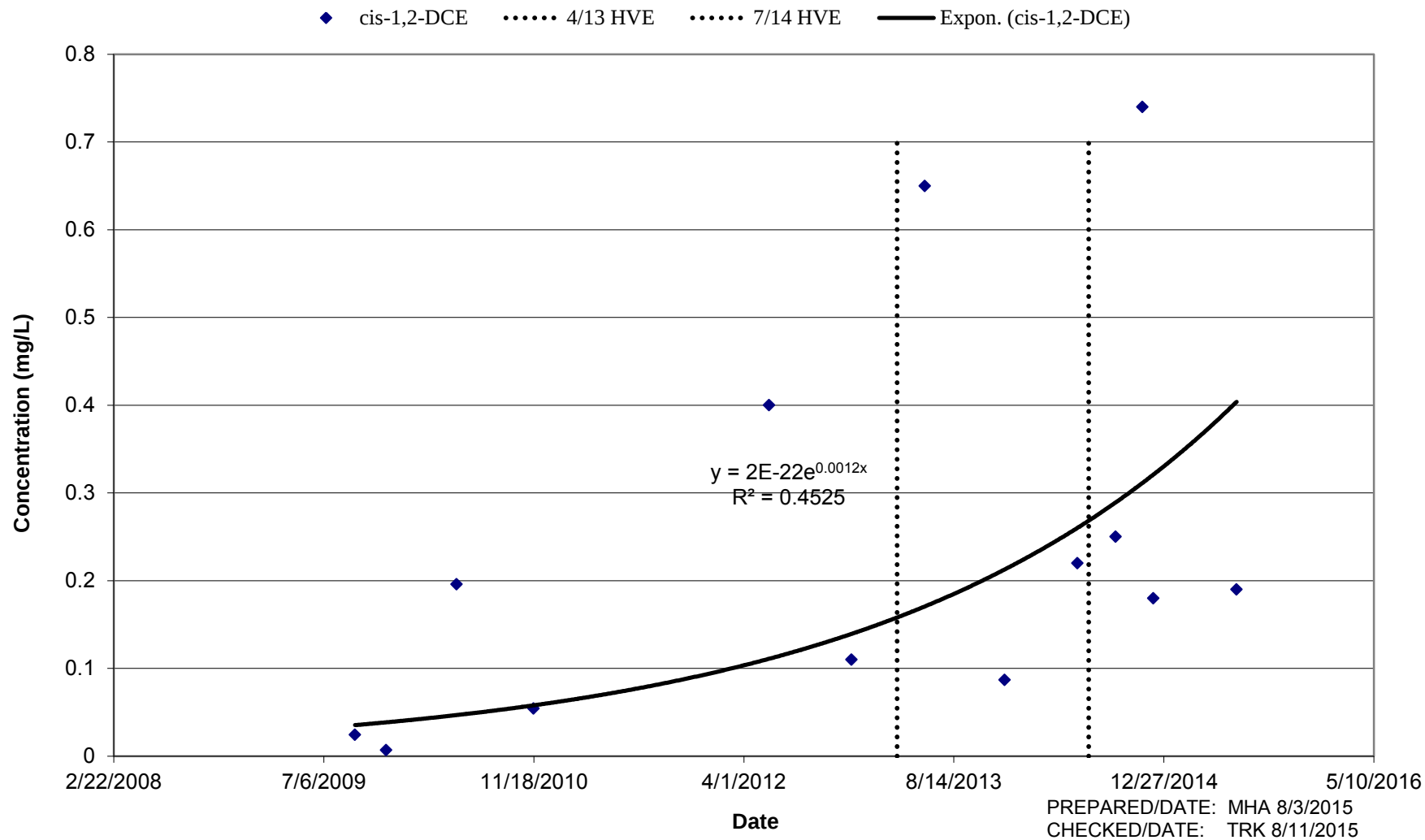
MW-19 Trichloroethene Concentration Versus Time Trend Plot



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



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



APPENDIX C

LABORATORY REPORTS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 25, 2015

Greg Wrenn
AMEC E&I, Inc. -Kennesaw
1075 Big Shanty Rd NW
Kennesaw GA 30144

TEL: (770) 421-3444
FAX: (770) 421-3486

RE: STI

Dear Greg Wrenn:

Order No: 1506L68

Analytical Environmental Services, Inc. received 20 samples on 6/19/2015 12:15:00 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 07/01/15-06/30/16.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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

3080 Presidential Drive, Atlanta GA 30340-3704

AES

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

CHAIN OF CUSTODY

Work Order: 150668

Date: 6/19/15 Page 1 of 2

COMPANY: AMEC Foster Wheeler		ADDRESS: 1075 Big Shanty RD NW Suite 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: 770-421-34017		FAX:																
SAMPLED BY: Mark A. Ever G		SIGNATURE: [Signature]		PRESERVATION (See codes)										REMARKS				
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)												
1	MW-4	6/17/15	1710	✓		GW												4
2	MW-5	6/18/15	1242	✓		GW	✓	✓										4
3	MW-6	6/18/15	1235	✓		GW	✓	✓										4
4	MW-7	6/18/15	1033	✓		GW	✓	✓										4
5	MW-8	6/17/15	1310	✓		GW	✓	✓										4
6	MW-9R	6/17/15	1230	✓		GW	✓	✓										4
7	MW-11	6/17/15	1603	✓		GW	✓	✓										4
8	MW-12	6/17/15	1055	✓		GW	✓	✓										4
9	MW-15	6/17/15	1415	✓		GW	✓	✓										4
10	MW-18	6/17/15	1153	✓		GW	✓	✓										4
11	MW-19	6/18/15	1105	✓		GW	✓	✓										4
12	MW-20	6/17/15	1028	✓		GW	✓	✓										4
13	MW-20D	6/17/15	1438	✓		GW	✓	✓										4
14	MW-21	6/17/15	1545	✓		GW	✓	✓										4

RELINQUISHED BY: [Signature]	DATE/TIME: 6-19-15/12:15	RECEIVED BY: Cataya Reeves	DATE/TIME: 6/19/15 12:15	PROJECT INFORMATION		RECEIPT	
1: [Signature]		2: [Signature]		PROJECT NAME: STI		Total # of Containers	
3: [Signature]		3: [Signature]		PROJECT #: 612-5-08-0149		Turnaround Time Request	
SPECIAL INSTRUCTIONS/COMMENTS: 5 site VOCs and a site specific list		SHIPMENT METHOD		SITE ADDRESS: Swainsboro, GA		☒ Standard 5 Business Days ☐ 2 Business Day Rush ☐ Next Business Day Rush ☐ Same Day Rush (auth req.) ☐ Other	
		OUT / / VIA:		SEND REPORT TO: Greg Wilson		STATE PROGRAM (if any):	
		IN / / VIA:		INVOICE TO: (IF DIFFERENT FROM ABOVE)		E-mail? Y/N; Fax? Y/N	
		CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER		QUOTE #: PO#:		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.
 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



AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order:

1506268

Date:

6/19/15

Page

2 of 2

COMPANY: AMEC Foster Wheeler		ADDRESS: 1075 Big Shanty RD NW Suite 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:		PRESERVATION (See codes)													
SAMPLED BY: Mark A. & Eiver G.		SIGNATURE: <i>[Signature]</i>												REMARKS			
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)											
		DATE	TIME														
1	DUP-1	6/17/15	1200	✓		GW	✓	✓									4
2	TRIP Blank					W	✓										2
3	SW-2	6/19/15	1425	✓		SW	✓										2
4	SW-4	6/18/15	1450	✓		SW	✓										2
5	SW-5	6/18/15	1525	✓		SW	✓										2
6	SW-6	6/18/15	1600	✓		SW	✓										2
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION				RECEIPT	
1: <i>[Signature]</i>		6-19-15/1215		1: <i>[Signature]</i>		6/19/15 12:15		PROJECT NAME: STI				Total # of Containers	
2:				2:				PROJECT #: 6125-08-0149				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					
								SEND REPORT TO: Greg Wrenn					
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				INVOICE TO: (IF DIFFERENT FROM ABOVE)				STATE PROGRAM (if any): _____	
				OUT / / VIA: IN / / VIA: ☒ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☐ COURIER ☐ GROUND ☐ OTHER _____								E-mail? Y/N: _____ Fax? Y/N _____	
								QUOTE #: _____ PO#: _____				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.
 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

Client: AMEC E&I, Inc. -Kennesaw**Project:** STI**Lab ID:** 1506L68**Case Narrative**

Sample MW-4 did not have a check mark under the requested analysis on the COC. Laboratory proceeded with the sample based on all the other analyses. Client was contacted via email about the issue 6/19 at 420pm, he instructed us to proceed.

Analytical Environmental Services, Inc

Date: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Lab ID: 1506L68-001

Client Sample ID: MW-4
 Collection Date: 6/17/2015 5:10:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 03:32	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 03:32	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 03:32	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 03:32	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 03:32	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 03:32	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 03:32	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 03:32	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 03:32	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 03:32	NP
Vinyl chloride	20	2.0		ug/L	209307	1	06/25/2015 03:32	NP
Surr: 4-Bromofluorobenzene	92.5	70.6-123		%REC	209307	1	06/25/2015 03:32	NP
Surr: Dibromofluoromethane	113	78.7-124		%REC	209307	1	06/25/2015 03:32	NP
Surr: Toluene-d8	98.1	81.3-120		%REC	209307	1	06/25/2015 03:32	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/23/2015 14:02	AB
Ethylene	BRL	7		ug/L	209180	1	06/23/2015 14:02	AB
Methane	7000	400		ug/L	209180	100	06/23/2015 16:09	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: STI
Lab ID: 1506L68-002

Client Sample ID: MW-5
Collection Date: 6/18/2015 12:42:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 03:54	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 03:54	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 03:54	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 03:54	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 03:54	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 03:54	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 03:54	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 03:54	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 03:54	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 03:54	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 03:54	NP
Surr: 4-Bromofluorobenzene	89.8	70.6-123		%REC	209307	1	06/25/2015 03:54	NP
Surr: Dibromofluoromethane	111	78.7-124		%REC	209307	1	06/25/2015 03:54	NP
Surr: Toluene-d8	98.3	81.3-120		%REC	209307	1	06/25/2015 03:54	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/23/2015 14:07	AB
Ethylene	BRL	7		ug/L	209180	1	06/23/2015 14:07	AB
Methane	260	8		ug/L	209180	2	06/23/2015 16:14	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Lab ID: 1506L68-003

Client Sample ID: MW-6
 Collection Date: 6/18/2015 12:35:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 04:17	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 04:17	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 04:17	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 04:17	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 04:17	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 04:17	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 04:17	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 04:17	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 04:17	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 04:17	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 04:17	NP
Surr: 4-Bromofluorobenzene	90.8	70.6-123		%REC	209307	1	06/25/2015 04:17	NP
Surr: Dibromofluoromethane	110	78.7-124		%REC	209307	1	06/25/2015 04:17	NP
Surr: Toluene-d8	98	81.3-120		%REC	209307	1	06/25/2015 04:17	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/23/2015 14:12	AB
Ethylene	BRL	7		ug/L	209180	1	06/23/2015 14:12	AB
Methane	2800	100		ug/L	209180	25	06/23/2015 16:19	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: STI
Lab ID: 1506L68-004

Client Sample ID: MW-7
Collection Date: 6/18/2015 10:33:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 04:40	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 04:40	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 04:40	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 04:40	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 04:40	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 04:40	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 04:40	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 04:40	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 04:40	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 04:40	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 04:40	NP
Surr: 4-Bromofluorobenzene	90.2	70.6-123		%REC	209307	1	06/25/2015 04:40	NP
Surr: Dibromofluoromethane	115	78.7-124		%REC	209307	1	06/25/2015 04:40	NP
Surr: Toluene-d8	99	81.3-120		%REC	209307	1	06/25/2015 04:40	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/23/2015 14:17	AB
Ethylene	BRL	7		ug/L	209180	1	06/23/2015 14:17	AB
Methane	1100	40		ug/L	209180	10	06/23/2015 16:24	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Lab ID: 1506L68-005

Client Sample ID: MW-8
 Collection Date: 6/17/2015 1:10:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	290	250		ug/L	209307	50	06/24/2015 23:21	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 14:29	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 14:29	NP
1,1-Dichloroethane	110	5.0		ug/L	209307	1	06/25/2015 14:29	NP
1,1-Dichloroethene	940	250		ug/L	209307	50	06/24/2015 23:21	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 14:29	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 14:29	NP
cis-1,2-Dichloroethene	1200	250		ug/L	209307	50	06/24/2015 23:21	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 14:29	NP
Trichloroethene	410	250		ug/L	209307	50	06/24/2015 23:21	NP
Vinyl chloride	640	100		ug/L	209307	50	06/24/2015 23:21	NP
Surr: 4-Bromofluorobenzene	97.4	70.6-123		%REC	209307	50	06/24/2015 23:21	NP
Surr: 4-Bromofluorobenzene	90.9	70.6-123		%REC	209307	1	06/25/2015 14:29	NP
Surr: Dibromofluoromethane	112	78.7-124		%REC	209307	50	06/24/2015 23:21	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	209307	1	06/25/2015 14:29	NP
Surr: Toluene-d8	94.9	81.3-120		%REC	209307	50	06/24/2015 23:21	NP
Surr: Toluene-d8	92.2	81.3-120		%REC	209307	1	06/25/2015 14:29	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/23/2015 14:30	AB
Ethylene	BRL	7		ug/L	209180	1	06/23/2015 14:30	AB
Methane	4400	200		ug/L	209180	50	06/23/2015 16:28	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: STI
Lab ID: 1506L68-006

Client Sample ID: MW-9R
Collection Date: 6/17/2015 12:30:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 05:02	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 05:02	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 05:02	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 05:02	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 05:02	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 05:02	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 05:02	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 05:02	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 05:02	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 05:02	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 05:02	NP
Surr: 4-Bromofluorobenzene	90.2	70.6-123		%REC	209307	1	06/25/2015 05:02	NP
Surr: Dibromofluoromethane	113	78.7-124		%REC	209307	1	06/25/2015 05:02	NP
Surr: Toluene-d8	99.6	81.3-120		%REC	209307	1	06/25/2015 05:02	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/23/2015 14:35	AB
Ethylene	BRL	7		ug/L	209180	1	06/23/2015 14:35	AB
Methane	380	8		ug/L	209180	2	06/23/2015 16:33	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: STI
Lab ID: 1506L68-007

Client Sample ID: MW-11
Collection Date: 6/17/2015 4:03:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 05:25	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 05:25	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 05:25	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 05:25	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 05:25	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 05:25	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 05:25	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 05:25	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 05:25	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 05:25	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 05:25	NP
Surr: 4-Bromofluorobenzene	92.4	70.6-123		%REC	209307	1	06/25/2015 05:25	NP
Surr: Dibromofluoromethane	112	78.7-124		%REC	209307	1	06/25/2015 05:25	NP
Surr: Toluene-d8	96.6	81.3-120		%REC	209307	1	06/25/2015 05:25	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/23/2015 14:45	AB
Ethylene	BRL	7		ug/L	209180	1	06/23/2015 14:45	AB
Methane	620	20		ug/L	209180	5	06/23/2015 16:38	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: STI
Lab ID: 1506L68-008

Client Sample ID: MW-12
Collection Date: 6/17/2015 10:55:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 09:10	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 09:10	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 09:10	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 09:10	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 09:10	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 09:10	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 09:10	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 09:10	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 09:10	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 09:10	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 09:10	NP
Surr: 4-Bromofluorobenzene	91.5	70.6-123		%REC	209307	1	06/25/2015 09:10	NP
Surr: Dibromofluoromethane	110	78.7-124		%REC	209307	1	06/25/2015 09:10	NP
Surr: Toluene-d8	97.2	81.3-120		%REC	209307	1	06/25/2015 09:10	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/23/2015 14:50	AB
Ethylene	BRL	7		ug/L	209180	1	06/23/2015 14:50	AB
Methane	60	4		ug/L	209180	1	06/23/2015 14:50	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: STI
Lab ID: 1506L68-009

Client Sample ID: MW-15
Collection Date: 6/17/2015 2:15:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 09:33	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 09:33	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 09:33	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 09:33	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 09:33	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 09:33	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 09:33	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 09:33	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 09:33	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 09:33	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 09:33	NP
Surr: 4-Bromofluorobenzene	90.6	70.6-123		%REC	209307	1	06/25/2015 09:33	NP
Surr: Dibromofluoromethane	111	78.7-124		%REC	209307	1	06/25/2015 09:33	NP
Surr: Toluene-d8	99.4	81.3-120		%REC	209307	1	06/25/2015 09:33	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/24/2015 10:17	AB
Ethylene	BRL	7		ug/L	209180	1	06/24/2015 10:17	AB
Methane	3300	100		ug/L	209180	25	06/24/2015 11:05	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: STI
Lab ID: 1506L68-010

Client Sample ID: MW-18
Collection Date: 6/17/2015 11:53:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 10:41	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 10:41	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 10:41	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 10:41	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 10:41	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 10:41	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 10:41	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 10:41	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 10:41	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 10:41	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 10:41	NP
Surr: 4-Bromofluorobenzene	90.3	70.6-123		%REC	209307	1	06/25/2015 10:41	NP
Surr: Dibromofluoromethane	109	78.7-124		%REC	209307	1	06/25/2015 10:41	NP
Surr: Toluene-d8	97.1	81.3-120		%REC	209307	1	06/25/2015 10:41	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/24/2015 10:22	AB
Ethylene	BRL	7		ug/L	209180	1	06/24/2015 10:22	AB
Methane	5300	400		ug/L	209180	100	06/24/2015 11:12	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Lab ID: 1506L68-011

Client Sample ID: MW-19
 Collection Date: 6/18/2015 11:05:00 AM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 14:06	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 14:06	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 14:06	NP
1,1-Dichloroethane	15	5.0		ug/L	209307	1	06/25/2015 14:06	NP
1,1-Dichloroethene	590	50		ug/L	209307	10	06/25/2015 00:53	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 14:06	NP
Chloroethane	27	10		ug/L	209307	1	06/25/2015 14:06	NP
cis-1,2-Dichloroethene	190	5.0		ug/L	209307	1	06/25/2015 14:06	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 14:06	NP
Trichloroethene	890	50		ug/L	209307	10	06/25/2015 00:53	NP
Vinyl chloride	490	20		ug/L	209307	10	06/25/2015 00:53	NP
Surr: 4-Bromofluorobenzene	93.5	70.6-123		%REC	209307	1	06/25/2015 14:06	NP
Surr: 4-Bromofluorobenzene	93.9	70.6-123		%REC	209307	10	06/25/2015 00:53	NP
Surr: Dibromofluoromethane	102	78.7-124		%REC	209307	1	06/25/2015 14:06	NP
Surr: Dibromofluoromethane	110	78.7-124		%REC	209307	10	06/25/2015 00:53	NP
Surr: Toluene-d8	92.6	81.3-120		%REC	209307	1	06/25/2015 14:06	NP
Surr: Toluene-d8	98.7	81.3-120		%REC	209307	10	06/25/2015 00:53	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	15	9		ug/L	209180	1	06/24/2015 10:27	AB
Ethylene	130	7		ug/L	209180	1	06/24/2015 10:27	AB
Methane	2200	80		ug/L	209180	20	06/24/2015 11:21	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Lab ID: 1506L68-012

Client Sample ID: MW-20
 Collection Date: 6/17/2015 10:28:00 AM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:05	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:05	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:05	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:05	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 11:05	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:05	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 11:05	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 11:05	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 11:05	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 11:05	NP
Vinyl chloride	3.9	2.0		ug/L	209307	1	06/25/2015 11:05	NP
Surr: 4-Bromofluorobenzene	92.3	70.6-123		%REC	209307	1	06/25/2015 11:05	NP
Surr: Dibromofluoromethane	113	78.7-124		%REC	209307	1	06/25/2015 11:05	NP
Surr: Toluene-d8	101	81.3-120		%REC	209307	1	06/25/2015 11:05	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/24/2015 10:35	AB
Ethylene	BRL	7		ug/L	209180	1	06/24/2015 10:35	AB
Methane	4900	400		ug/L	209180	100	06/24/2015 11:26	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Lab ID: 1506L68-013

Client Sample ID: MW-20D
 Collection Date: 6/17/2015 2:38:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:27	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:27	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:27	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:27	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 11:27	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:27	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 11:27	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 11:27	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 11:27	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 11:27	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 11:27	NP
Surr: 4-Bromofluorobenzene	90.8	70.6-123		%REC	209307	1	06/25/2015 11:27	NP
Surr: Dibromofluoromethane	110	78.7-124		%REC	209307	1	06/25/2015 11:27	NP
Surr: Toluene-d8	96.3	81.3-120		%REC	209307	1	06/25/2015 11:27	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/24/2015 10:41	AB
Ethylene	BRL	7		ug/L	209180	1	06/24/2015 10:41	AB
Methane	BRL	4		ug/L	209180	1	06/24/2015 10:41	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Lab ID: 1506L68-014

Client Sample ID: MW-21
 Collection Date: 6/17/2015 3:45:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:49	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:49	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:49	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:49	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 11:49	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 11:49	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 11:49	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 11:49	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 11:49	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 11:49	NP
Vinyl chloride	2.5	2.0		ug/L	209307	1	06/25/2015 11:49	NP
Surr: 4-Bromofluorobenzene	89.5	70.6-123		%REC	209307	1	06/25/2015 11:49	NP
Surr: Dibromofluoromethane	112	78.7-124		%REC	209307	1	06/25/2015 11:49	NP
Surr: Toluene-d8	98.2	81.3-120		%REC	209307	1	06/25/2015 11:49	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/24/2015 10:46	AB
Ethylene	BRL	7		ug/L	209180	1	06/24/2015 10:46	AB
Methane	3200	200		ug/L	209180	50	06/24/2015 11:31	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: STI
Lab ID: 1506L68-015

Client Sample ID: DUP-1
Collection Date: 6/17/2015 12:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	260	250		ug/L	209307	50	06/25/2015 00:31	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 14:51	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 14:51	NP
1,1-Dichloroethane	110	5.0		ug/L	209307	1	06/25/2015 14:51	NP
1,1-Dichloroethene	910	250		ug/L	209307	50	06/25/2015 00:31	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 14:51	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 14:51	NP
cis-1,2-Dichloroethene	1000	250		ug/L	209307	50	06/25/2015 00:31	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 14:51	NP
Trichloroethene	390	250		ug/L	209307	50	06/25/2015 00:31	NP
Vinyl chloride	590	100		ug/L	209307	50	06/25/2015 00:31	NP
Surr: 4-Bromofluorobenzene	96.6	70.6-123		%REC	209307	50	06/25/2015 00:31	NP
Surr: 4-Bromofluorobenzene	90.5	70.6-123		%REC	209307	1	06/25/2015 14:51	NP
Surr: Dibromofluoromethane	112	78.7-124		%REC	209307	50	06/25/2015 00:31	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	209307	1	06/25/2015 14:51	NP
Surr: Toluene-d8	97.2	81.3-120		%REC	209307	50	06/25/2015 00:31	NP
Surr: Toluene-d8	92.6	81.3-120		%REC	209307	1	06/25/2015 14:51	NP
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	209180	1	06/24/2015 10:51	AB
Ethylene	BRL	7		ug/L	209180	1	06/24/2015 10:51	AB
Methane	4300	200		ug/L	209180	50	06/24/2015 11:36	AB

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Lab ID: 1506L68-016

Client Sample ID: TRIP BLANK
 Collection Date: 6/19/2015
 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/24/2015 22:10	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/24/2015 22:10	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/24/2015 22:10	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/24/2015 22:10	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/24/2015 22:10	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/24/2015 22:10	NP
Chloroethane	BRL	10		ug/L	209307	1	06/24/2015 22:10	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/24/2015 22:10	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/24/2015 22:10	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/24/2015 22:10	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/24/2015 22:10	NP
Surr: 4-Bromofluorobenzene	94.9	70.6-123		%REC	209307	1	06/24/2015 22:10	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	209307	1	06/24/2015 22:10	NP
Surr: Toluene-d8	96.8	81.3-120		%REC	209307	1	06/24/2015 22:10	NP

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Lab ID: 1506L68-017

Client Sample ID: SW-2
 Collection Date: 6/18/2015 2:25:00 PM
 Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 12:12	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 12:12	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 12:12	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 12:12	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 12:12	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 12:12	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 12:12	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 12:12	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 12:12	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 12:12	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 12:12	NP
Surr: 4-Bromofluorobenzene	91.5	70.6-123		%REC	209307	1	06/25/2015 12:12	NP
Surr: Dibromofluoromethane	111	78.7-124		%REC	209307	1	06/25/2015 12:12	NP
Surr: Toluene-d8	97.3	81.3-120		%REC	209307	1	06/25/2015 12:12	NP

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Lab ID: 1506L68-018

Client Sample ID: SW-4
 Collection Date: 6/18/2015 2:50:00 PM
 Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 12:58	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 12:58	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 12:58	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 12:58	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 12:58	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 12:58	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 12:58	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 12:58	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 12:58	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 12:58	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 12:58	NP
Surr: 4-Bromofluorobenzene	101	70.6-123		%REC	209307	1	06/25/2015 12:58	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	209307	1	06/25/2015 12:58	NP
Surr: Toluene-d8	96	81.3-120		%REC	209307	1	06/25/2015 12:58	NP

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Lab ID: 1506L68-019

Client Sample ID: SW-5
 Collection Date: 6/18/2015 3:25:00 PM
 Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 13:20	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 13:20	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 13:20	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 13:20	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 13:20	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 13:20	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 13:20	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 13:20	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 13:20	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 13:20	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 13:20	NP
Surr: 4-Bromofluorobenzene	97.4	70.6-123		%REC	209307	1	06/25/2015 13:20	NP
Surr: Dibromofluoromethane	100	78.7-124		%REC	209307	1	06/25/2015 13:20	NP
Surr: Toluene-d8	93.1	81.3-120		%REC	209307	1	06/25/2015 13:20	NP

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: 25-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Lab ID: 1506L68-020

Client Sample ID: SW-6
 Collection Date: 6/18/2015 4:00:00 PM
 Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 15:14	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 15:14	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 15:14	NP
1,1-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 15:14	NP
1,1-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 15:14	NP
1,2-Dichloroethane	BRL	5.0		ug/L	209307	1	06/25/2015 15:14	NP
Chloroethane	BRL	10		ug/L	209307	1	06/25/2015 15:14	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 15:14	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 15:14	NP
Trichloroethene	BRL	5.0		ug/L	209307	1	06/25/2015 15:14	NP
Vinyl chloride	BRL	2.0		ug/L	209307	1	06/25/2015 15:14	NP
Surr: 4-Bromofluorobenzene	90.7	70.6-123		%REC	209307	1	06/25/2015 15:14	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	209307	1	06/25/2015 15:14	NP
Surr: Toluene-d8	92.1	81.3-120		%REC	209307	1	06/25/2015 15:14	NP

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/KENNESAW Work Order Number 1506268

Checklist completed by M. M. P. P. Signature Date 06/19/2015

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? ($0^{\circ} \leq 6^{\circ}C$) * Yes ☒ No ☐

Cooler #1 3.4°C 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.

Client: AMEC E&I, Inc. -Kennesaw
 Project Name: STI
 Workorder: 1506L68

ANALYTICAL QC SUMMARY REPORT

BatchID: 209180

Sample ID: MB-209180	Client ID:					Units: ug/L	Prep Date: 06/23/2015	Run No: 294596			
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175				BatchID: 209180	Analysis Date: 06/23/2015	Seq No: 6278560			
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-209180	Client ID:					Units: ug/L	Prep Date: 06/23/2015	Run No: 294596			
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175				BatchID: 209180	Analysis Date: 06/23/2015	Seq No: 6278561			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane 92.52 9 200.0 46.3 41.2 115
 Ethylene 60.68 7 200.0 30.3 26.5 115
 Methane 95.75 4 200.0 47.9 45.1 115

Sample ID: LCSD-209180	Client ID:					Units: ug/L	Prep Date: 06/23/2015	Run No: 294596			
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175				BatchID: 209180	Analysis Date: 06/23/2015	Seq No: 6278562			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane 90.91 9 200.0 45.5 41.2 115 92.52 1.75 20
 Ethylene 59.77 7 200.0 29.9 26.5 115 60.68 1.52 20
 Methane 94.97 4 200.0 47.5 45.1 115 95.75 0.824 20

Sample ID: 1506L68-008BMS	Client ID: MW-12	Units: ug/L			Prep Date: 06/23/2015	Run No: 294596					
SampleType: MS	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175	BatchID: 209180		Analysis Date: 06/23/2015	Seq No: 6278572					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane 112.8 9 200.0 56.4 40.5 115
 Ethylene 74.91 7 200.0 37.5 25.1 115
 Methane 230.8 4 200.0 134.9 47.9 40.4 115

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. -Kennesaw
Project Name: STI
Workorder: 1506L68

ANALYTICAL QC SUMMARY REPORT

BatchID: 209180

Sample ID: 1506L68-008BMSD	Client ID: MW-12	Units: ug/L				Prep Date: 06/23/2015	Run No: 294596				
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175		BatchID: 209180		Analysis Date: 06/23/2015	Seq No: 6278573				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	114.6	9	200.0		57.3	40.5	115	112.8	1.53	20	
Ethylene	76.28	7	200.0		38.1	25.1	115	74.91	1.81	20	
Methane	233.9	4	200.0	134.9	49.5	40.4	115	230.8	1.36	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		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: STI
Workorder: 1506L68

ANALYTICAL QC SUMMARY REPORT

BatchID: 209307

Sample ID: MB-209307	Client ID:	Units: ug/L				Prep Date: 06/24/2015	Run No: 294645				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 209307				Analysis Date: 06/24/2015	Seq No: 6279713				
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-Dichloroethane	BRL	5.0									
Chloroethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	48.34	0	50.00		96.7	70.6	123				
Surr: Dibromofluoromethane	53.77	0	50.00		108	78.7	124				
Surr: Toluene-d8	48.36	0	50.00		96.7	81.3	120				

Sample ID: LCS-209307	Client ID:					Units: ug/L	Prep Date: 06/24/2015	Run No: 294645			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 209307	Analysis Date: 06/24/2015	Seq No: 6279712			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	62.50	5.0	50.00		125	64.2	137				
Trichloroethene	56.19	5.0	50.00		112	70.5	134				
Surr: 4-Bromofluorobenzene	48.77	0	50.00		97.5	70.6	123				
Surr: Dibromofluoromethane	50.36	0	50.00		101	78.7	124				
Surr: Toluene-d8	46.54	0	50.00		93.1	81.3	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. -Kennesaw
Project Name: STI
Workorder: 1506L68

ANALYTICAL QC SUMMARY REPORT

BatchID: 209307

Sample ID: 1506L68-005AMS	Client ID: MW-8	Units: ug/L	Prep Date: 06/24/2015	Run No: 294703							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 209307	Analysis Date: 06/25/2015	Seq No: 6281931							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3180	250	2500	942.5	89.5	60.5	156				
Trichloroethene	2687	250	2500	414.0	90.9	71.8	139				
Surr: 4-Bromofluorobenzene	2232	0	2500		89.3	70.6	123				
Surr: Dibromofluoromethane	2462	0	2500		98.5	78.7	124				
Surr: Toluene-d8	2294	0	2500		91.8	81.3	120				

Sample ID: 1506L68-005AMSD	Client ID: MW-8	Units: ug/L	Prep Date: 06/24/2015	Run No: 294703							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 209307	Analysis Date: 06/25/2015	Seq No: 6281935							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3525	250	2500	942.5	103	60.5	156	3180	10.3	20	
Trichloroethene	3026	250	2500	414.0	104	71.8	139	2687	11.9	20	
Surr: 4-Bromofluorobenzene	2170	0	2500		86.8	70.6	123	2232	0	0	
Surr: Dibromofluoromethane	2542	0	2500		102	78.7	124	2462	0	0	
Surr: Toluene-d8	2256	0	2500		90.2	81.3	120	2294	0	0	