VOLUNTARY REMEDIATION PLAN STATUS REPORT NO. 4

THERMO KING CORPORATION
LOUISVILLE, JEFFERSON COUNTY, GEORGIA
HSI Site No. 10702

Submitted To:

GEORGIA ENVIRONMENTAL PROTECTION DIVISION
Atlanta Georgia

Submitted By:

THERMO KING CORPORATION
Louisville, Georgia

Prepared By:

AMEC ENVIRONMENT & INFRASTRUCTURE, INC.
Kennesaw, Georgia

March 8, 2013

AMEC Project No. 6122-09-0322

March 8, 2013

Mr. David Brownlee
Acting Program Manager
Response & Remediation Program
Land Protection Branch
2 Martin Luther King Jr. Drive, SE
Suite 1462 East Floyd Tower
Atlanta, Georgia 30334

Subject: **Voluntary Remediation Plan Status Report No. 4**
Thermo King Corporation - Louisville, Jefferson County, Georgia
HSI Site No. 10702 Tax Parcel 0090-024
AMEC Project 6122-09-0322

Dear Mr. Brownlee:

AMEC Environment & Infrastructure, Inc. (AMEC), on behalf of Thermo King Corporation is hereby submitting the attached Status Report No.4 for Voluntary Remediation Program Remediation Activities for the Thermo King Corporation in Louisville, Jefferson County, Georgia (HSI Site No. 10702, Tax Parcel 0090-024). This status report is required by the Voluntary Remediation Program (VRP) statue and requested by the Georgia Environmental Protection Division (EPD) in their comment letter dated March 10, 2011.

This status report covers the period from September 2012 to shortly before submittal of this status report on March 8, 2013. The report includes information on the November 2012 seep sampling, January 2013 groundwater, seep, and surface water sampling, maintenance of the rip-rap blanket, and summary of professional hours.

Sincerely,

AMEC Environment & Infrastructure, Inc.

Rhonda N. Quinn, P.G.
Senior Geologist
Georgia Registration# 1031

For A. David Alcott
with permission
Elizabeth A. Thompson

A. David Alcott
Senior Principal Engineer

Enclosure

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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

March 7 2013
Date

Signature and Stamp

GEORGIA REGISTERED No. 025565 PROFESSIONAL ENGINEER GREGORY J. WRENN

2.0 INTRODUCTION AND BACKGROUND

This Voluntary Remediation Plan Semi-Annual Status Report No. 4 (Status Report) was prepared in accordance with the Voluntary Remediation Program (VRP) for the Thermo King Corporation site, Hazardous Site Inventory (HSI) No. 10702/Tax Parcel 0090-024. EPD requested in their March 10, 2011 approval letter that status reports be submitted in September and March. This fourth Status Report covers the activities conducted from September 2012 until shortly before the submittal of this status report (March 2013).

The Thermo King site is located at 1430 Highway 24 East in Louisville, Jefferson County, Georgia. The site soil and groundwater impacts were delineated under the Georgia Hazardous Site Response Act (HSRA) and certified to risk reduction standards. HSRA Compliance Status Reports were prepared and submitted December 17, 2003 and March 21, 2007. EPD approved the Compliance Status Report and requested a Corrective Action Plan (CAP). An initial VRP Application, dated January 29, 2010 and an Addendum, dated December 22, 2010, were submitted to EPD to enter the site into the VRP. The VRP Application was submitted in lieu of a HSRA CAP. The VRP Application Addendum contained a revised Voluntary Investigation and Remediation Plan (VIRP) and addressed EPD comment letters dated May 17, August 31, and October 15, 2010. On March 10, 2011, EPD approved the VIRP and accepted the Thermo King site into the VRP. Three Status Reports have been submitted to EPD covering the time period from March 2011 to September 2012. This fourth Status Report documents the semi-annual groundwater, seep and surface water monitoring, a seep sampling event conducted in November 2012, and the maintenance of the rip-rap blanket.

3.0 WORK PERFORMED SEPTEMBER 2012 TO MARCH 2013

The activities currently identified to be performed at the Thermo King site under the VRP are outlined in the VIRP, dated December 22, 2010, the EPD VIRP approval letter dated March 10, 2011, and the EPD VIRP comment letter dated March 10, 2011. The activities that have been performed since September 10, 2012 have included a quarterly seep sampling (November 2012); semi-annual groundwater, seep, and surface water sampling and analysis (January 2013); and maintenance of the rip-rap blanket. These activities are described in the following sections.

3.1 November 2012 Seep Sampling and January 2013 Groundwater, Seep, and Surface Water Sampling

3.1.1 Groundwater Elevations

Prior to collecting samples for groundwater quality analysis, groundwater elevations were measured as noted below:

- 14 Uppermost Water-Bearing Zones (UWBZ) wells (MW-1 to MW-13, and MW-19).
- 5 wells screened in the colluvial/alluvial soils adjacent to Manson Branch (MW-15, MW-16, MW-26, MW-27, and MW-28).
- 8 Intermediate Water-Bearing Zone (IWBZ) wells (MW-14, MW-17, MW-18, MW-20, MW-21, MW-22, MW-23, and MW-25).
- 1 well (MW-24) screened in the lower water-bearing zone.

Groundwater elevations are summarized on Table 1. Since June 2010, groundwater elevations in both the UWBZ and IWBZ have exhibited a decreasing trend that appears to have stabilized in 2012. During this period, the uppermost zone wells generally showed a 2–3-foot decrease in groundwater elevations while the groundwater elevations in the intermediate zone wells decreased by 1 to 2 feet. The decreasing trend is attributed to the on-going drought conditions in middle Georgia. Potentiometric surface maps of the UWBZ and IWBZ based on groundwater level measurements made on January 7, 2013 are presented on Figures 1 and 2. The January 2013 groundwater flow direction in both water-bearing zones is consistent with previous interpretations.

3.1.2 Groundwater Samples

Groundwater samples were collected from monitoring wells MW-3, MW-5, MW-10, MW-14, MW-19, MW-20, MW-22, MW-25, MW-27, and MW-28 on January 9 and 10, 2013. Low flow/low stress purging methodology employing bladder pumps and a peristaltic pump was used to purge and sample the monitoring wells in general accordance with USEPA Region 4

Science and Ecosystem Support Division (SESD) Groundwater Sampling Procedure SESDPROC-301-R2. The depths where the pumps and tubing intakes were positioned for sampling are indicated on the field sampling forms in Appendix A. The groundwater samples were analyzed for site-specific volatile organic compounds (VOCs) using USEPA Method 8260B. Those monitoring wells (MW-5, MW-14, MW-19, MW-20, MW-25, MW-27, and MW-28) with prior consistent detections of chlorinated VOCs were also analyzed for 1,4-dioxane using USEPA Method 8260B selective ion monitoring (SIM) to achieve a lower quantitation limit. Monitoring wells which have had sporadic trace detections of chlorinated VOCs like MW-3, MW-10 or have been non-detect, like MW-22, were not analyzed using the SIM method because there was no indication 1,4-dioxane should be present at these locations, i.e., chlorinated VOCs were not present. The monitoring well locations are shown on potentiometric surface maps Figures 1 and 2 for the Uppermost and Intermediate Water Bearing Zones, respectively. Groundwater sample analytical results are summarized on Table 2; laboratory reports are in Appendix A.

3.1.3 Seep Samples

Toluene was unexpectedly detected in the July 2012 seep samples. Subsequently, quarterly sampling of the seeps was voluntarily implemented by Thermo King to further evaluate the presence of toluene in the seep samples. The first quarterly sampling event was conducted on November 19, 2012. The second quarterly sampling event was conducted on January 8, 2013 as part of the first semi-annual sampling event for year 2013. Except when seeps were dry, seep water samples were collected during each of the quarterly events from the seven seeps (MB#2, Seep #2, Seep B, Seep G, Seep H, Seep I, and Seep L) as listed in the VIRP. Seeps MB #2 and H are now each encased in a perforated plastic culvert-style pipe inserted into the rip-rap blanket over the original seep locations. Samples of the seep water were collected by directly filling the pre-cleaned and preserved sample containers with water that appeared at the ground surface. These seep samples were analyzed for site-specific VOCs using USEPA Method 8260B. In the November 2012 samples, 1,4-dioxane was analyzed using the SIM 8260B methodology. In the January 2013 samples, 1,4-dioxane was analyzed using USEPA Method 8260B. The seep sample analytical results are summarized on Table 3 and the laboratory reports are provided in Appendix A.

3.1.4 Surface Water Samples

Surface water samples were collected from Manson Branch on January 8, 2013. Surface water samples were collected from four stream locations (MB #3, MB #5, MB #15, and MB#16). The stream sample locations are shown on Figure 1. Samples of the surface water were collected by submerging and directly filling the pre-cleaned and preserved sample containers with surface water. The surface water samples were analyzed for site-specific VOCs and 1,4-dioxane using

USEPA Method 8260B. The surface water sample analytical results are summarized on Table 3 and the laboratory reports are provided in Appendix A.

The groundwater, seep, and surface water were packaged in ice and were transported under chain-of-custody protocol to the laboratory. The November 2012 seep samples were analyzed by Analytical Environmental Services (AES) in Atlanta, Georgia. The January 2013 groundwater, seep, and surface water samples were analyzed by Test America laboratory in North Canton, Ohio.

3.2 Analytical Results

The following sections describe the results of the analysis of groundwater, seep, and surface water samples collected on November 2012 and from January 8 to 10, 2013.

3.2.1 Groundwater in the Uppermost Water-Bearing Zone and Colluvial/Alluvial Deposits

Groundwater samples were collected during the January 9-10, 2013 sampling event from UWBZ monitoring wells MW-3, MW-5, MW-10, and MW-19. Monitoring wells MW-27 and MW-28, which screen the colluvial/alluvial deposits associated with Manson Branch, were also sampled. The analytical results for these wells are summarized on Table 2. Constituent concentrations reported in samples from these wells are similar to those reported from 2010 through 2012 as indicated on Figures 3 and 4. In MW-19, where TCE concentrations are sampled just upgradient of where groundwater begins to discharge to seeps located on the slope above Manson Branch, the TCE concentration in the January 2013 sample was 6400 µg/L. MW-19 TCE concentrations previously reported from 2010 through 2012 ranged from 4000 µg/L to 5900 µg/L. MW-19 TCE concentrations reported earlier, in 2003 and 2004, ranged from 8,000 to 20,000 µg/L.

3.2.2 Groundwater in the Intermediate Water-Bearing Zone

Groundwater samples were collected from IWBZ monitoring wells MW-14, MW-20, MW-22, and MW-25 during the January 2013 sampling event. The analytical results for these wells are summarized on Table 2. The January 2013 results for wells MW-14, MW-20, MW-25 are generally similar to those reported in 2010 through 2012. In well MW-20, where cis-1,2-dichloroethene concentrations are sampled downgradient of the former south settling pond, the cis-1,2-dichloroethene concentration in the January 2013 sample was 320 µg/L. Cis-1,2-dichloroethene concentrations previously reported from 2010 through 2012 ranged from 170 µg/L to 310 µg/L. Constituents were not detected in well MW-22.

3.2.3 Seeps

Toluene was unexpectedly detected in four of the 5 July 2012 seep samples, at concentrations ranging from 6.4 µg/L in Seep G to 170 µg/L and 180 µg/L in Seeps H and MB #2, respectively. Except in June 2011, when toluene was reported in Seep MB#2, Seep #2, and Seep I at 2.0 to 2.5 µg/L, toluene had not been previously detected in the area. The only other toluene detection in a seep sample was a one-time reported detection of toluene (280 µg/L) in Seep J (located some 430 feet north of Seep MB#2) in 2003. Previous one-time toluene detections in groundwater occurred in samples from 6 different groundwater borings or wells in 2000, at concentrations ranging from 1.3 to 6.8 µg/L, and in two wells in 2003, at concentrations of 5.7 and 29 µg/L. Toluene was not detected in any groundwater or seep samples between 2003 and 2011.

The seeps were re-sampled on August 7, 2012 to provide data to further assess the July toluene detections. Samples were collected from Seep MB #2, Seep G, Seep H and Seep #2 (Seeps B, I, and L were moist but had no surface expression of water for sampling). The reported August toluene concentrations were much lower than those reported in the July seep samples, dropping from 180 µg/L to 22 µg/L at MB #2 and from 6.4 µg/L to 2.4 µg/L at Seep G. Subsequently, toluene was not detected in six of the seven seep samples collected in November 2012 while toluene was not detected in any of the seven January 2013 seep samples. Based on the November and January data, toluene no longer appears to be a constituent in the seeps. Seep sampling will be conducted for two more quarters as confirmation.

In addition to the unexpected detection of toluene in seep samples collected following placement of the rip-rap blanket (blanket construction completed in May 2012), changes in the presence and concentration of VOCs in some seep samples were observed. Prior to mid-2012, VOC concentrations in seep samples had been relatively consistent. Following rip-rap placement, more variability in seep sample constituents and concentrations were observed, particularly in seep samples from the “upgradient” seeps MB #2 and H. At MB #2, TCE concentrations decreased from several hundred µg/L to non-detect (Figure 4) while TCE concentrations in Seep H samples increased from approximately 40 µg/L to 600 to 800 µg/L. Some variations in other detected VOCs at these seep locations have also occurred.

Following rip-rap construction, both MB #2 and Seep H are sampled in perforated plastic culvert-style pipe inserted into the rip-rap blanket over the original locations of the seeps. The revised sampling technique may be in part responsible for the observed analytical variations as may have been some interaction with the toluene. Seep pathways may have been altered by the rip-rap placement. VOC concentrations in the other seep locations, located downgradient from the terminus of the rip-rap blanket (between the blanket terminus and Manson Branch),

have shown little changes in constituents present or constituent concentrations that may have been associated with rip-rap construction. The results of supplemental seep sampling events will be monitored to confirm post rip-rap construction concentration trends.

None of the seep sample results indicate that VOCs are present at locations beyond the rip-rap blanket at concentrations exceeding Georgia In-stream Water Quality Criteria (ISWQC).

3.2.4 Surface Water

Surface water samples collected from the 4 designated sampling locations in Manson Branch were analyzed for site-specific VOCs and 1,4-dioxane. Consistent with sampling results for the past 10 years, no constituents were detected (Table 3).

3.3 Update of Groundwater Fate and Transport Model

3.3.1 Uppermost Water-Bearing Zone

In response to comments received in EPD's July 16, 2012 letter regarding the flow of groundwater from the UWBZ to Manson Branch, as discussed in Appendix D of the VRP Application (December 22, 2010), additional information was provided to support IR's position that discharges of contaminants in groundwater from the UWBZ were at concentrations well below those levels that would result in TCE exceedances in Manson Branch. This supplemental information provided as response to EPD's July 16, 2012 comments #2 and #3 was previously submitted in Appendix A of Status Report No. 3 (September 10, 2012). This supplemental information is also attached in this current Status Report No. 4 in Appendix B. This includes expanded-scale topographic/stratigraphic/hydrologic cross-sections that more clearly illustrated the pathway of flow of groundwater and associated contaminants from the UWBZ to seeps along the valley sides, and then through the valley floor colluvial/alluvial soils to discharge into Manson Branch. The responses also incorporate additional discussion, including calculations, to illustrate that at the present concentration and discharge rate of the groundwater and associated contaminants from the UWBZ, the potential maximum impact to Manson Branch would be well below ISWQC.

Review of VOC concentrations in samples from UWBZ well MW-19, from seep samples, and from colluvial/alluvial wells MW-27 and MW-28 (Tables 2 and 3) show that since 2010 TCE concentrations in UWBZ well MW-19 had been relatively consistent at 4000 to 5900 µg/L. Constituent concentrations detected in the January 2013 UWBZ and colluvial/alluvial wells are similar to those described above. As discussed in the Appendices reference in the above paragraph, the potential impact to Manson Branch associated with these contaminant concentrations and hydrologic flow conditions should continue to be well below the TCE ISWQC of 30 µg/L.

Also noted is that in 10 years of monitoring for VOC concentrations in samples from Manson Branch, none have been detected.

3.3.2 Intermediate Water-Bearing Zone

A contaminant migration model for TCE, cis-1,2-dichloroethene (DCE), and vinyl chloride (VC) in the Intermediate Zone was presented in Appendix C of the September 2011 VRP Status Report No. 1. This model illustrated the downgradient migration of these constituents to their maximum extent and subsequent retreat and showed the maximum constituent concentrations at the property boundary, the proposed point of exposure (POE), would not exceed the practical reporting limit of one µg/L before the plumes retreated.

The January 2013 groundwater sampling results for Intermediate Zone monitoring wells MW-14, MW-20, and MW-25, are presented on Table 2. Constituents have not been detected in well MW-22 samples. As illustrated on Figures 5 and 6, the January 2013 results (time trends) for TCE and DCE in these wells are similar to those recently reported. Figures 7, 8, and 9 (distance versus concentration graphs for Intermediate Zone wells) illustrate recent (2011 through 2013) concentrations versus those modeled predictions (Appendix A in Status Report No. 3) and show that the 2013 constituent concentrations approximate the model projected concentrations.

Constituent concentrations in the IWBZ will continue to be monitored in accordance with the approved VRP and the model may be recalibrated, as appropriate, as additional data are collected.

3.4 Rip-Rap Blanket Maintenance

As indicated in VRP Status Report No. 3, heavy rainfalls that occurred prior to the establishment of a vegetative cover in the graded area following rip-rap blanket construction resulted in erosion along the graded embankment and along the sides of the rip-rap flume leading down to the rip-rap blanket and in substantial sediment accumulation in the catch basin at the base of the rip-rap flume. Maintenance activities conducted in November 2012 consisted of removal of the accumulated sediment and placement of additional rip-rap to fill in erosional features and widen the rip-rap flume. Additional surface grading was also conducted to divert some storm water away from the rip-rap blanket areas and to better control surface water runoff into the rip-rap flume/blanket areas. Several rip-rap check dams were also installed in drainage pathways upslope from the rip-rap blanket to decrease the stormwater run-off velocity. Photographs of the area following the maintenance activities are included in Appendix C. Following completion of these maintenance activities, additional seeding of the area was conducted to establish a thicker vegetative cover to assist in erosion control. Subsequent inspections of the area

conducted in December 2012 and January 2013 indicated that a suitable vegetative cover had been established over the disturbed areas, erosion was adequately addressed, and water was flowing beneath the rip-rap surface. Photographs from the November 2012 and January 2013 inspections (Appendix C) show the repairs conducted to the blanket and the establishment of the vegetative cover.

4.0 WORK TO BE PERFORMED

Several of the activities currently identified in the VIRP and in the EPD March 10, 2011 letters have been completed or are in progress during this reporting period. A few activities are left to be performed. These activities include preparation and execution of the environmental covenant and continued maintenance of the riprap blanket. The sections below describe the status of the activities yet to be performed. Figure 10 is the updated Gantt Chart Schedule of VRP Activities.

4.1 Financial Assurance

The financial assurance for 2013 will be submitted to EPD in April 2013. The 2013 VRP financial assurance will provide an updated cost estimate. An Irrevocable Standby Letter of Credit that automatically renews annually was provided to the EPD in May 2011 for the VRP financial assurance. The 2013 cost estimate will show the current estimated cost for VRP implementation is lower than the current letter of credit amount, provided the corrective action strategy does not change and the cost estimate remains the same or lower than the financial assurance amount previously submitted.

4.2 Preparation and Execution of Environmental Covenant

An environmental covenant is proposed as an institutional control for the Thermo King site. The institutional control will be used to maintain an incomplete pathway of exposure to impacted groundwater by restricting its use in conformance with the Georgia Uniform Environmental Covenants (UEC) Act. The UEC will also designate a portion of the floor slab as an exposure barrier to impacted soil beneath the slab. The UEC will specify inspections of the floor slab to document the integrity and function of the floor slab as an exposure barrier. Additionally, the UEC will direct that additional environmental sampling and subsurface investigation continue to be conducted under the direction of site-specific health and safety plans.

A draft environmental covenant was presented in the Addendum to the VRP Application. In their March 10, 2011 letter, the EPD provided comments on the covenant. The draft covenant has been updated to include Georgia Power as an Interested Party on the covenant.

In their July 16, 2012 comments, EPD also requested that the properties to the north of Highway 24 and the Thermo King facility to be listed as abutting property owners on the covenant. Response to this comment was addressed in Appendix A of Status Report No. 3. The environmental covenant will be executed after a decision is reached regarding the inclusion or exclusion of these properties to the north.

4.3 Rip Rap Blanket Maintenance

Maintenance of the rip-rap blanket area will be conducted periodically to clean sediment/debris out of the check dams, to maintain the surface water runoff drainage patterns, and to ensure that adequate vegetative cover remains in place to control erosion. An inspection of the area will be conducted in April 2013, in conjunction with the scheduled seep sampling event; further maintenance activities will be scheduled, as necessary, following this inspection.

4.4 Quarterly Seep Sampling and Analysis

A quarterly seep sampling will be conducted in April 2013 as part of the on-going toluene evaluation. The seven seeps will be sampled and analyzed using the procedures described in Section 3.1.3. The results will be presented in the next Status Report.

4.5 Semi-Annual Groundwater, Seep and Surface Water Sampling and Analysis

The second 2013 semi-annual groundwater, seep, and surface water sampling will be conducted in late June to early July 2013. The ten monitoring wells, seven seeps and four Manson Branch surface water locations will be sampled and analyzed using the procedures described in Sections 3.1.2 to 3.1.4. The results will be presented in the next Status Report.

5.0 PROFESSIONAL SERVICES HOURS THIS PERIOD

Approximately 449.8 professional service hours have been provided by AMEC Environment & Infrastructure, Inc. from September 2012 through February 2013. A table of the breakdown of AMEC hours by month along with a description of the services provided is presented on Table 4. The registered professional engineer responsible for implementation of the VRP at this site is Mr. Gregory Wrenn. Mr. Wrenn has personally charged 13.5 labor hours to the project to direct and review the various aspects of implementation of the VRP during this reporting period.

TABLES

TABLE 1: SUMMARY OF GROUNDWATER ELEVATIONS

Monitoring Well	Water-Bearing Zone Screened	Top of Casing Elevation (ft, NAVD)	Depth to Water from Top of Casing (ft) September 11, 2003	Ground-Water Elevation (ft, NAVD) September 11, 2003	Depth to Water from Top of Casing (ft) June 24, 2004	Ground-Water Elevation (ft, NAVD) June 24, 2004	Depth to Water from Top of Casing (ft) October 12, 2004	Ground-Water Elevation (ft, NAVD) October 12, 2004	Depth to Water from Top of Casing (ft) February 25, 2008	Ground-Water Elevation (ft, NAVD) February 25, 2008	Depth to Water from Top of Casing (ft) June 1-3, 2010	Ground-Water Elevation (ft, NAVD) June 1-3, 2010	Depth to Water from Top of Casing (ft) June 24, 2010	Ground-Water Elevation (ft, NAVD) June 24, 2010
MW-1	Uppermost	333.69	46.79	286.90	47.33	286.36	47.88	285.81	49.47	284.22	46.22	287.47		
MW-2	Uppermost	322.38	37.80	284.58	38.41	283.97	38.77	283.61	40.16	282.22	37.60	284.78		
MW-3	Uppermost	325.45	40.86	284.59	41.42	284.03	41.82	283.63	43.00	282.45	40.70	284.75		
MW-4	Uppermost	323.78	39.52	284.26	40.12	283.66	40.17	283.61	41.42	282.36	39.29	284.49		
MW-5	Uppermost	321.10	39.45	281.65	39.96	281.14	40.06	281.04	40.73	280.37	39.18	281.92	39.27	281.83
MW-6	Uppermost	314.37	31.36	283.01	31.02	283.35	31.53	282.84	32.10	282.27	30.74	283.63		
MW-7	Uppermost	320.23	34.33	285.90	35.04	285.19	35.32	284.91	36.41	283.82	34.31	285.92		
MW-8	Uppermost	329.70	42.00	287.70	42.60	287.10	42.97	286.73	44.39	285.31	41.63	288.07		
MW-9	Uppermost	323.09	36.71	286.38	37.78	285.31	38.47	284.62	40.16	282.93	37.21	285.88		
MW-10	Uppermost	310.05	28.30	281.75	27.99	282.06	29.04	281.01	29.22	280.83	27.96	282.09		
MW-11	Uppermost	333.77	51.08	282.69	50.55	283.22	50.98	282.79	52.71	281.06	49.66	284.11		
MW-12	Uppermost	328.34	47.31	281.03	48.18	280.16	48.67	279.67	50.18	278.16	47.29	281.05		
MW-13	Uppermost	283.71	5.40	278.31	5.66	278.05	9.42	274.29	9.21	274.50	8.25	275.46		
MW-14	Intermediate	311.62	64.64	246.98	64.42	247.20	64.17	247.45	64.41	247.21	64.66	246.96	65.20	246.42
MW-15	Alluvium	260.18	5.36	254.82	4.69	255.49	5.05	255.13	3.68	256.50	4.71	255.47		
MW-16	Alluvium	253.81	4.55	249.26	3.99	249.82	4.40	249.41	3.47	250.34	4.30	249.51		
MW-17	Intermediate	260.48	11.70	248.78	11.51	248.97	11.81	248.67	11.79	248.69	11.90	248.58		
MW-18	Intermediate	254.18	5.61	248.57	5.45	248.73	5.70	248.48	5.62	248.56	5.80	248.38		
MW-19	Uppermost	311.89	31.90	279.99	32.11	279.78	32.34	279.55	32.61	279.28	31.37	280.52	31.57	280.32
MW-20	Intermediate	325.75	79.79	245.96	79.89	245.86	79.67	246.08	79.86	245.89	79.97	245.78		
MW-21	Intermediate	320.49	75.05	245.44	75.12	245.37	75.19	245.30	75.64	244.85	75.52	244.97		
MW-22	Intermediate	334.05	89.16	244.89	89.23	244.82	89.33	244.72	89.65	244.40	89.64	244.41		
MW-23	Intermediate	323.77	78.69	245.08	78.77	245.00	78.80	244.97	79.00	244.77	79.11	244.66		
MW-24	Lower	321.23	not installed				86.67	234.56	87.04	234.19	85.33	235.90	86.38	234.85
MW-25	Intermediate	321.18	not installed										75.27	245.91
MW-26	Alluvium	255.29	not installed											
MW-27	Alluvium	257.50	not installed											
MW-28	Alluvium	251.73	not installed											
Staff Gauge near MW-16	Surface Water	249.80	0.60	249.20	0.88	248.92	0.60	249.20	0.60	249.20	nm			
Hwy 24 Bridge over Manson Branch	Surface Water	257.08	8.80	248.28	5.79	251.29	5.80	251.28	6.64	250.44	nm			

Notes:
ft, NAVD Feet above North American Vertical Datum of 1988
Monitoring wells MW-1 to MW-13, MW-15, MW-16 and MW-19 screened above the uppermost tan and blue-gray clays of the Twiggs Clay (Uppermost Water-bearing Zone)
Monitoring wells MW-14, MW-17, MW-18, and MW-20 to MW-23, and MW-25 screened below the uppermost tan and blue-gray clays of the Twiggs Clay (Intermediate Water-bearing Zone)
nm = not measured
249.80 new elevation of Staff Gauge near MW-16 as of 11/2/2010

TABLE 1: SUMMARY OF GROUNDWATER ELEVATIONS

Monitoring Well	Water-Bearing Zone Screened	Top of Casing Elevation (ft, NAVD)	Depth to Water from Top of Casing (ft) October 21, 2010	Ground-Water Elevation (ft, NAVD) October 21, 2010	Depth to Water from Top of Casing (ft) June 6, 2011	Ground-Water Elevation (ft, NAVD) June 6, 2011	Depth to Water from Top of Casing (ft) January 16, 2012	Ground-Water Elevation (ft, NAVD) January 16, 2012	Depth to Water from Top of Casing (ft) July 9, 2012	Ground-Water Elevation (ft, NAVD) July 9, 2012	Depth to water from top of casing (ft) January 7, 2013	Ground-Water Elevation (ft, NAVD) January 7, 2013
MW-1	Uppermost	333.69	46.73	286.96	48.02	285.67	49.18	284.51	49.91	283.78	49.88	283.81
MW-2	Uppermost	322.38	38.03	284.35	39.01	283.37	40.01	282.37	40.55	281.83	40.54	281.84
MW-3	Uppermost	325.45	41.06	284.39	41.87	283.58	42.80	282.65	43.21	282.24	43.18	282.27
MW-4	Uppermost	323.78	39.52	284.26	40.42	283.36	41.23	282.55	41.62	282.16	41.43	282.35
MW-5	Uppermost	321.10	39.52	281.58	40.04	281.06	40.72	280.38	40.86	280.24	41.06	280.04
MW-6	Uppermost	314.37	31.03	283.34	31.22	283.15	32.13	282.24	32.73	281.64	32.74	281.63
MW-7	Uppermost	320.23	34.69	285.54	35.47	284.76	36.25	283.98	36.68	283.55	36.73	283.50
MW-8	Uppermost	329.70	42.14	287.56	43.03	286.67	44.15	285.55	44.69	285.01	45.04	284.66
MW-9	Uppermost	323.09	36.36	286.73	38.88	284.21	40.02	283.07	40.63	282.46	40.36	282.73
MW-10	Uppermost	310.05	28.64	281.41	29.03	281.02	29.59	280.46	29.85	280.20	30.03	280.02
MW-11	Uppermost	333.77	50.27	283.50	51.34	282.43	52.51	281.26	53.18	280.59	53.42	280.35
MW-12	Uppermost	328.34	48.23	280.11	49.12	279.22	50.19	278.15	50.73	277.61	51.04	277.30
MW-13	Uppermost	283.71	9.50	274.21	9.99	273.72	10.33	273.38	10.97	272.74	10.93	272.78
MW-14	Intermediate	311.62	65.74	245.88	65.56	246.06	66.11	245.51	66.42	245.20	66.21	245.41
MW-15	Alluvium	260.18	7.43	252.75	7.5	252.68	5.72	254.46	6.58	253.60	5.00	255.18
MW-16	Alluvium	253.81	6.45	247.36	7.03	246.78	5.12	248.69	6.75	247.06	4.89	248.92
MW-17	Intermediate	260.48	13.41	247.07	13.13	247.35	13.17	247.31	13.94	246.54	13.23	247.25
MW-18	Intermediate	254.18	7.18	247.00	7.04	247.14	6.93	247.25	7.76	246.42	6.97	247.21
MW-19	Uppermost	311.89	31.77	280.12	32.22	279.67	32.64	279.25	32.65	279.24	32.70	279.19
MW-20	Intermediate	325.75	80.88	244.87	80.62	245.13	81.70	244.05	81.66	244.09	81.90	243.85
MW-21	Intermediate	320.49	76.41	244.08	76.08	244.41	77.48	243.01	77.22	243.27	77.77	242.72
MW-22	Intermediate	334.05	90.48	243.57	90.22	243.83	91.51	242.54	91.30	242.75	91.80	242.25
MW-23	Intermediate	323.77	80	243.77	79.76	244.01	80.82	242.95	80.75	243.02	81.06	242.71
MW-24	Lower	321.23	88.88	232.35	86.83	234.40	90.95	230.28	93.62	227.61	92.56	228.67
MW-25	Intermediate	321.18	75.91	245.27	75.65	245.53	76.54	244.64	76.61	244.57	76.72	244.46
MW-26	Alluvium	255.29	7.00	248.29	7.53	247.76	5.51	249.78	7.96	247.33	5.11	250.18
MW-27	Alluvium	257.50	6.84	250.66	8.88	248.62	5.07	252.43	9.73	247.77	4.77	252.73
MW-28	Alluvium	251.73	5.59	246.14	6.39	245.34	5.10	246.63	7.32	244.41	4.91	246.82
Staff Gauge near MW-16	Surface Water	249.80	1.42	248.38	dry at gauge		1.18	248.62	dry at gauge		1.27	248.53
Hwy 24 Bridge over Manson Branch	Surface Water	257.08	6.79	250.29	7.38	249.70	6.33	250.75	6.80	250.28	6.01	251.07

PREPARED BY/DATE: MHA 2/4/2013
CHECKED BY/DATE: RNQ 2/22/2013

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
Sample Depth (well screen interval) (ft. bgs)	69.4'-74.4'	69.4'-74.4'	69.4'-74.4'	69.4'-74.4'	69.4'-74.4'	69.4'-74.4'	69.4'-74.4'	69.4'-74.4'
Sample Depth (well screen interval) (ft. btoc)	69.2-74.2	69.2-74.2	69.2-74.2	69.2-74.2	69.2-74.2	69.2-74.2	69.2-74.2	69.2-74.2
Passive Diffusion Bag Sample Depth (ft. btoc)				72.2-73.7	72.2-73.7	72.2-73.7	72.2-73.7	
Date Sampled	2/25/2000	10/2/2000	2/19/2003	5/5/2004	10/12-13/2004	4/7/2008	6/1/2010	June 2011 January 2012 July 2012 and January 2013
Laboratory	STL Tampa	STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	
Purge Method/Sample Method	Bailer/Bailer	Bailer/Bailer	PumpLFLS/Bailer	PumpLFLS/Bailer / PDB	PumpLFLS/Bailer / PDB	no purge/ PDB	no purge/ PDB	
Constituent								
Volatile Organic Compounds - SW8260B - (µg/L)								NOT SAMPLED per VIRP
1,1,1,2-Tetrachloroethane	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1,1-Trichloroethane	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1-Dichloroethane	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1-Dichloroethene	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,4-Dioxane	<500	<250	<200	<250	<250	<250	<50	
Chloroform	**1.7**	<5.0	<5.0	<5.0	<5.0	<5.0	**4.9**	
cis-1,2-Dichloroethene	<1.0	<2.5	<2.5	<5.0	<5.0	<2.5	<1.0	
Ethylbenzene	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
p-Isopropyltoluene	<1.0	<5.0	NA	NA	NA	<5.0	<1.0	
Methylene chloride	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Tetrachloroethene	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
trans-1,2-Dichloroethene	<1.0	<2.5	<2.5	<5.0	<5.0	<2.5	<1.0	
Toluene	**1.3**	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Trichloroethene	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Vinyl Chloride	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<1.0	
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	NA	NA	
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed					Metals were not sampled and analyzed		
Total Silver				<0.1	<0.1			
Dissolved Silver				NA	NA			
Total Cadmium				<0.005	<0.005			
Dissolved Cadmium				NA	NA			
Total Chromium				<0.1	<0.1			
Dissolved Chromium				NA	NA			
Total Lead				<0.015	<0.015			
Dissolved Lead				NA	NA			
Total Copper				<1.0	<1.0			
Dissolved Copper				NA	NA			
Total Nickel				<0.1	<0.1			
Dissolved Nickel				NA	NA			
Total Zinc				<2.0	<2.0			
Dissolved Zinc				NA	NA			

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Sample Depth (well screen interval) (ft. bgs)	53'-58'	53'-58'	53'-58'	53'-58'	53'-58'	53'-58'	53'-58'	53'-58'
Sample Depth (well screen interval) (ft. btoc)	52.8-57.8	52.8-57.8	52.8-57.8	52.8-57.8	52.8-57.8	52.8-57.8	52.8-57.8	52.8-57.8
Passive Diffusion Bag Sample Depth (ft. btoc)				55.4-56.9	55.4-56.9	55.4-56.9	55.4-56.9	
Date Sampled	2/25/2000	10/3/2000	2/19/2003	5/5/2004	10/12/2004	4/7/2008	6/1/2010	June 2011 January 2012 July 2012 and January 2013
Laboratory	STL Tampa	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	
Purge Method/Sample Method	Bailer/Bailer	Bailer/Bailer	PumpLFLS/ Bailer	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	
Constituent								
Volatile Organic Compounds - SW8260B - (µg/L)								NOT SAMPLED per VIRP
1,1,1,2-Tetrachloroethane	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1,1-Trichloroethane	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1-Dichloroethane	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1-Dichloroethene	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,4-Dioxane	<500	<250	<200	<250	<250	<250	<50	
Chloroform	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	**2.1**	
cis-1,2-Dichloroethene	<1.0	<2.5	<2.5	<5.0	<5.0	<2.5	<1.0	
Ethylbenzene	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
p-Isopropyltoluene	<1.0	<5.0	NA	NA	NA	<5.0	<1.0	
Methylene chloride	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Tetrachloroethene	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
trans-1,2-Dichloroethene	<1.0	<2.5	<2.5	<5.0	<5.0	<2.5	<1.0	
Toluene	**5.0**	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Trichloroethene	**240**	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Vinyl Chloride	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<1.0	
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	NA	NA	
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed							
Total Silver								
Dissolved Silver								
Total Cadmium								
Dissolved Cadmium								
Total Chromium								
Dissolved Chromium								
Total Lead								
Dissolved Lead								
Total Copper								
Dissolved Copper								
Total Nickel								
Dissolved Nickel								
Total Zinc								
Dissolved Zinc								

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
Sample Depth (well screen interval) (ft. bgs)	55'-60'	55'-60'	55'-60'	55'-60'	55'-60'	55'-60'	55'-60'	55'-60'	55'-60'	55'-60'	55'-60'	55'-60'
Sample Depth (well screen interval) (ft. btoc)	54.8-59.8	54.8-59.8	54.8-59.8	54.8-59.8	54.8-59.8	54.8-59.8	54.8-59.8	54.8-59.8	54.8-59.8	54.8-59.8	54.8-59.8	54.8-59.8
Passive Diffusion Bag Sample Depth (ft. btoc)				57.5-59	57.5-59	57.5-59	57.5-59					
Date Sampled	2/25/2000	10/3/2000	2/18/2003	5/6/2004	10/12-13/2004	4/8/2008	6/2/2010	6/3/2010	6/8/2011	1/19/2012	7/11/2012	1/10/2013
Laboratory	STL Tampa	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - Tampa	AES-Atlanta	AES-Atlanta	TestAmerica - Canton
Purge Method/Sample Method	Bailer/Bailer	Bailer/Bailer	PumpLFLS/Bailer	PumpLFLS/Bailer/ PDB	PumpLFLS/Bailer/ PDB	no purge/ PDB	no purge/ PDB	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS
Constituent												
Volatile Organic Compounds - SW8260B - (µg/L)												
1,1,1,2-Tetrachloroethane	<150	<5.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<150	<5.0	**57**	**6.7**	**13**	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<150	<5.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<150	<5.0	**13**	**5.1**	**12**	<5.0	<1.0	**1.7**	<1.0	**1.3**	<1.0	<1.0
1,4-Dioxane	<75000	<250	<400	<250	<250	<250	<50	<50	NA	<100	<100	<50
Chloroform	<150	<5.0	<10	**7.3**	**7.7**	<5.0	**2.3**	**2.3**	**2.7**	**2.8**	**3.0**	**2.7**
cis-1,2-Dichloroethene	<150	<2.5	<5.0	<5.0	<5.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<150	<5.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<150	<5.0	NA	NA	NA	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<300	<5.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0
Tetrachloroethene	<150	<5.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<150	<2.5	<10	<5.0	<5.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<150	<5.0	<10	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	**2900**	<5.0	**69**	**8.1**	**15**	<5.0	**1.6**	**2.4**	**1.8**	**1.3**	**3.1**	**1.3**
Vinyl Chloride	<150	<2.0	<10	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	<5.0	<5.0	NA
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and aNAlyzed					Metals were not sampled and analyzed						
Total Silver				<0.1	<0.1							
Dissolved Silver				<0.1	NA							
Total Cadmium				<0.005	<0.005							
Dissolved Cadmium				<0.005	NA							
Total Chromium				<0.1	<0.1							
Dissolved Chromium				<0.1	NA							
Total Lead				<0.015	<0.015							
Dissolved Lead				<0.015	NA							
Total Copper				<1.0	<1.0							
Dissolved Copper				<1.0	NA							
Total Nickel				<0.1	<0.1							
Dissolved Nickel				<0.1	NA							
Total Zinc				<2.0	<2.0							
Dissolved Zinc				<2.0	NA							

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Sample Depth (well screen interval) (ft. bgs)	53'-58'	53'-58'	53'-58'	53'-58'	53'-58'	53'-58'	53'-58'	53'-58'
Sample Depth (well screen interval) (ft. btoc)	52.9-57.9	52.9-57.9	52.9-57.9	52.9-57.9	52.9-57.9	52.9-57.9	52.9-57.9	52.9-57.9
Passive Diffusion Bag Sample Depth (ft. btoc)				'55.5-57	'55.5-57	'55.5-57	'55.5-57	
Date Sampled	2/25/2000	10/3/2000	2/18/2003	5/6/2004	10/12-13/2004	4/8/2008	6/2/2010	June 2011 January 2012 July 2012 and January 2013
Laboratory	STL Tampa	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	
Purge Method/Sample Method	Bailer/Bailer	Bailer/Bailer	PumpLFLS/Bailer	PumpLFLS/Bailer/ PDB	PumpLFLS/Bailer/ PDB	no purge/ PDB	no purge/ PDB	
Constituent								
Volatile Organic Compounds - SW8260B - (µg/L)								NOT SAMPLED per VIRP
1,1,1,2-Tetrachloroethane	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1,1-Trichloroethane	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1-Dichloroethane	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1-Dichloroethene	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,4-Dioxane	<500	<250	<200	<250	<250	<250	<50	
Chloroform	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
cis-1,2-Dichloroethene	<1.0	<2.5	<2.5	<5.0	<5.0	<2.5	<1.0	
Ethylbenzene	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
p-Isopropyltoluene	<1.0	<5.0	NA	NA	NA	<5.0	<1.0	
Methylene chloride	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Tetrachloroethene	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
trans-1,2-Dichloroethene	<1.0	<2.5	<2.5	<5.0	<5.0	<2.5	<1.0	
Toluene	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Trichloroethene	**16**	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Vinyl Chloride	<1.0	<2.0	<5.0	<2.0	<2.0	<2.0	<1.0	
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	NA	NA	
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed					Metals were not sampled and analyzed		
Total Silver				<0.1	<0.1			
Dissolved Silver				<0.1	NA			
Total Cadmium				<0.005	<0.005			
Dissolved Cadmium				<0.005	NA			
Total Chromium				<0.1	<0.1			
Dissolved Chromium				<0.1	NA			
Total Lead				<0.015	<0.015			
Dissolved Lead				<0.015	NA			
Total Copper				<1.0	<1.0			
Dissolved Copper				<1.0	NA			
Total Nickel				<0.1	<0.1			
Dissolved Nickel				<0.1	NA			
Total Zinc				<2.0	<2.0			
Dissolved Zinc				<2.0	NA			

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	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
Sample Depth (well screen interval) (ft. bgs)	49'-54'	49'-54'	49'-54'	49'-54'	49'-54'	49'-54'	49'-54'	49'-54'	49'-54'	49'-54'	49'-54'	49'-54'	49'-54'
Sample Depth (well screen interval) (ft. btoc)	48.8-53.8	48.8-53.8	48.8-53.8	48.8-53.8	48.8-53.8	48.8-53.8	48.8-53.8	48.8-53.8	48.8-53.8	48.8-53.8	48.8-53.8	48.8-53.8	48.8-53.8
Passive Diffusion Bag Sample Depth (ft. btoc)					51.4-52.9	51.4-52.9	51.4-52.9	51.4-52.9					
Date Sampled	2/25/2000	10/3/2000	2/18/2003	6/12/2003	5/7/2004	10/12-13/2004	4/7/2008	6/1/2010	6/2/2010	6/7/2011	1/18/2012	7/11/2012	1/10/2013
Laboratory	STL Tampa	STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - Tampa	AES-Atlanta	AES-Atlanta	TestAmerica - Canton
Purge Method/Sample Method	Bailer/Bailer	Bailer/Bailer	PumpLFLS/ Bailer	PumpLFLS/ Bailer	PumpLFLS/ Bailer/PDB	PumpLFSL/Bailer/ PDB	no purge/ PDB	no purge/ PDB	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS
Constituent													
Volatile Organic Compounds - SW8260B - (µg/L)													
1,1,1,2-Tetrachloroethane	<400	<500	<25	<33	<45	<42	<12	<8.0	<8.0	<1.0	<1.0	<1.0	<8.0
1,1,1-Trichloroethane	<400	<500	**45**	**53**	<45	<42	<12	<8.0	<8.0	**4**	**1.8**	<1.0	<8.0
1,1-Dichloroethane	<400	<500	<25	<33	<45	<42	<12	<8.0	<8.0	<1.0	<1.0	<1.0	<8.0
1,1-Dichloroethene	<400	<500	**44**	**65**	<45	<42	<12	**8.9**	**22**	**15**	**12**	<1.0	<8.0
1,4-Dioxane	<200000	<25000	<1200	<1300	<2300	<2100	<620	<400	<400	NA	<100	<100	<400
Chloroform	<400	<500	<25	<33	<45	<42	<12	<8.0	<8.0	**1.8**	**1.8**	**2.1**	<8.0
cis-1,2-Dichloroethene	<400	<250	**15**	**19**	<45	<42	<6.2	<8.0	<8.0	**4.5**	**3.6**	<1.0	<8.0
Ethylbenzene	<400	<500	<25	<33	<45	<42	<12	<8.0	<8.0	<1.0	<1.0	<1.0	<8.0
p-Isopropyltoluene	<400	<500	NA	NA	NA	NA	<12	<8.0	<8.0	<1.0	<1.0	<1.0	<8.0
Methylene chloride	<800	<500	<25	<33	<45	<42	<12	<8.0	<8.0	<5.0	<1.0	<1.0	<8.0
Tetrachloroethene	<400	<500	<25	<33	<45	<42	<12	<8.0	<8.0	<1.0	<1.0	<1.0	<8.0
trans-1,2-Dichloroethene	<400	<250	<12	<17	<45	<42	<6.2	<8.0	<8.0	<1.0	<1.0	<1.0	<8.0
Toluene	<400	<500	<25	<33	<45	<42	<12	<8.0	<8.0	<1.0	<1.0	<1.0	<8.0
Trichloroethene	**7400**	**15000**	**730**	**1200**	**310**	**320**	**180**	**210**	**250**	**160**	**230**	**220**	**240**
Vinyl Chloride	<400	<200	<25	<33	<18	<17	<5.0	<8.0	<8.0	<1.0	<1.0	<1.0	<8.0
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	<5.0	<5.0	<40
Site-Specific Metals - SW6010B - (mg/L)													
Total Silver					<0.1	<0.1							
Dissolved Silver					<0.1	NA							
Total Cadmium					<0.005	<0.005							
Dissolved Cadmium					<0.005	NA							
Total Chromium					<0.1	<0.1							
Dissolved Chromium					<0.1	NA							
Total Lead	Metals were not sampled and analyzed				<0.015	<0.015	Metals were not sampled and analyzed						
Dissolved Lead					<0.015	NA							
Total Copper					<1.0	<1.0							
Dissolved Copper					<1.0	NA							
Total Nickel					<0.1	<0.1							
Dissolved Nickel					<0.1	NA							
Total Zinc					<2.0	<2.0							
Dissolved Zinc					<2.0	NA							

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-7	MW-7	MW-7	MW-7
Sample Depth (well screen interval) (ft. bgs)	43'-48'	43'-48'	43'-48'	43'-48'	43'-48'	43'-48'	46'-56'	46'-56'	45.6'-55.6'	45.6'-55.6'
Sample Depth (well screen interval) (ft. btoc)	42.9'-47.9'	42.9'-47.9'	42.9'-47.9'	42.9'-47.9'	42.9'-47.9'	42.9'-47.9'	45.6'-55.6'	45.6'-55.6'	53.7'-55.2'	53.7'-55.2'
Passive Diffusion Bag Sample Depth (ft. btoc)				45.9'-47.4'	45.9'-47.4'			53.7'-55.2'		
Date Sampled	2/25/2000	10/3/2000	2/18/2003	4/8/2008	6/1/2010	June 2011 January 2012 July 2012 and January 2013	2/25/2003	4/8/2008	6/1/2010	June 2011 January 2012 July 2012 and January 2013
Laboratory	STL Tampa	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton		STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	
Purge Method/Sample Method	Bailer/Bailer	Bailer/Bailer	PumpLFLS/Bailer	no purge/ PDB	no purge/ PDB		PumpLFLS/Bailer	no purge/ PDB	no purge/ PDB	
Constituent										
Volatile Organic Compounds - SW8260B - (µg/L)						NOT SAMPLED per VIRP				NOT SAMPLED per VIRP
1,1,1,2-Tetrachloroethane	<1.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
1,1,1-Trichloroethane	<1.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
1,1-Dichloroethane	<1.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
1,1-Dichloroethene	<1.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
1,4-Dioxane	<500	<250	<200	<250	<50		<200	<250	<50	
Chloroform	<1.0	<5.0	<5.0	<5.0	**1.2**		<5.0	**6.0**	**4.1**	
cis-1,2-Dichloroethene	<1.0	<2.5	<2.5	<2.5	<1.0		<2.5	<2.5	<1.0	
Ethylbenzene	<1.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
p-Isopropyltoluene	<1.0	<5.0	NA	<5.0	<1.0		NA	<5.0	<1.0	
Methylene chloride	<2.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
Tetrachloroethene	<1.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
trans-1,2-Dichloroethene	<1.0	<2.5	<2.5	<2.5	<1.0		<2.5	<2.5	<1.0	
Toluene	<1.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
Trichloroethene	**9.6**	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
Vinyl Chloride	<1.0	<2.0	<5.0	<2.0	<1.0		<5.0	<2.0	<1.0	
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA		NA	NA	NA	
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed						Metals were not sampled and analyzed			
Total Silver										
Dissolved Silver										
Total Cadmium										
Dissolved Cadmium										
Total Chromium										
Dissolved Chromium										
Total Lead										
Dissolved Lead										
Total Copper										
Dissolved Copper										
Total Nickel										
Dissolved Nickel										
Total Zinc										
Dissolved Zinc										

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-8	MW-8A	MW-8B	MW-8	MW-8	MW-8	MW-8	MW-9	MW-9	MW-9	MW-9
Sample Depth (well screen interval) (ft. bgs)	60'-70'	60'-70'	60'-70'	60'-70'	60'-70'	60'-70'	60'-70'	55'-65'	55'-65'	55'-65'	55'-65'
Sample Depth (well screen interval) (ft. btoc)		59.6-69.6	59.6-69.6	59.6-69.6	59.6-69.6	59.6-69.6	59.6-69.6	54.6'-64.6'	54.6'-64.6'	54.6'-64.6'	54.6'-64.6'
Passive Diffusion Bag Sample Depth (ft. btoc)		'60.6-62.1	65.6-67.1	'60.6-62.1	'60.6-62.1	'60.6-62.1			62.7'-64.2'	62.7'-64.2'	
Date Sampled	2/24/2003	5/7/2004	5/7/2004	10/12/2004	4/7/2008	6/1/2010	June 2011 January 2012 July 2012 and January 2013	2/24/2003	4/7/2008	6/1/2010	June 2011 January 2012 July 2012 and January 2013
Laboratory	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton		STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	
Purge Method/Sample Method	PumpLFLS/Bailer	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB		PumpLFLS/Bailer	no purge/ PDB	no purge/ PDB	
Constituent											
Volatile Organic Compounds - SW8260B - (µg/L)							NOT SAMPLED per VIRP				NOT SAMPLED per VIRP
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
1,4-Dioxane	<200	<250	<250	<250	<250	<50		<200	<250	<50	
Chloroform	<5.0	<5.0	<5.0	<5.0	<5.0	**1.0**		<5.0	<5.0	<1.0	
cis-1,2-Dichloroethene	<2.5	<5.0	<5.0	<5.0	<2.5	<1.0		<2.5	<2.5	<1.0	
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
p-Isopropyltoluene	NA	NA	NA	NA	<5.0	<1.0		NA	<5.0	<1.0	
Methylene chloride	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
trans-1,2-Dichloroethene	<2.5	<5.0	<5.0	<5.0	<2.5	<1.0		<2.5	<2.5	<1.0	
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
Trichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
Vinyl Chloride	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0		<5.0	<2.0	<1.0	
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	NA		NA	NA	NA	
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed							Metals were not sampled and analyzed			
Total Silver											
Dissolved Silver											
Total Cadmium											
Dissolved Cadmium											
Total Chromium											
Dissolved Chromium											
Total Lead											
Dissolved Lead											
Total Copper											
Dissolved Copper											
Total Nickel											
Dissolved Nickel											
Total Zinc											
Dissolved Zinc											

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-10	MW-10A	MW-10B	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10
Sample Depth (well screen interval) (ft. bgs)	35'-45'	35'-45'	35'-45'	35'-45'	35'-45'	35'-45'	35'-45'	35'-45'	35'-45'	35'-45'	35'-45'
Sample Depth (well screen interval) (ft. btoc)	37.4-47.4	37.4-47.4	37.4-47.4	37.4-47.4	37.4-47.4	37.4-47.4	37.4-47.4	37.4-47.4	37.4-47.4	37.4-47.4	37.4-47.4
Passive Diffusion Bag Sample Depth (ft. btoc)		38.6-40.1	43.6-45.1	38.6-40.1	38.6-40.1	38.6-40.1					
Date Sampled	2/25/2003	5/6/2004	5/6/2004	10/12-13/2004	4/8/2008	6/2/2010	6/3/2010	6/9/2011	1/17/2012	7/10/2012	1/10/2013
Laboratory	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - Tampa	AES-Atlanta	AES-Atlanta	TestAmerica - Canton
Purge Method/Sample Method	PumpLFLS/Bailer	PumpLFLS/Bailer/ PDB	PumpLFLS/Bailer/ PDB	PumpLFLS/Bailer/ PDB	no purge/ PDB	no purge/ PDB	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS
Constituent											
Volatile Organic Compounds - SW8260B - (µg/L)											
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	<200	<250	<250	<250	<250	<50	<50	NA	<100	<100	<50
Chloroform	<5.0	<5.0	<5.0	<5.0	**6.4**	**1.8**	**1.9**	**2.5**	**1.8**	**1.5**	**1.1**
cis-1,2-Dichloroethene	<2.5	<5.0	<5.0	<5.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NA	NA	NA	NA	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<2.5	<5.0	<5.0	<5.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<5.0	**8.5**	**5.8**	**6.1**	<5.0	**3.4**	**2.8**	**2.6**	**2.9**	**2.6**	**2.5**
Vinyl Chloride	<5.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	NA	NA	NA
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed				Metals were not sampled or analyzed						
Total Silver		<0.1		<0.1							
Dissolved Silver		<0.1		NA							
Total Cadmium		<0.005		<0.005							
Dissolved Cadmium		<0.005		NA							
Total Chromium		<0.1		<0.1							
Dissolved Chromium		<0.1		NA							
Total Lead		<0.015		<0.015							
Dissolved Lead		<0.015		NA							
Total Copper		<1.0		<1.0							
Dissolved Copper		<1.0		NA							
Total Nickel		<0.1		<0.1							
Dissolved Nickel		<0.1		NA							
Total Zinc		<2.0		<2.0							
Dissolved Zinc		<2.0		NA							

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-11	MW-11	MW-11	MW-11	MW-12	MW-12	MW-12	MW-12	MW-13	MW-13	MW-13	MW-13
Sample Depth (well screen interval) (ft. bgs)	66'-76'	66'-76'	66'-76'	66'-76'	60.5'-70.5'	60.5'-70.5'	60.5'-70.5'	60.5'-70.5'	12'-22'	12'-22'	12'-22'	12'-22'
Sample Depth (well screen interval) (ft. btoc)	68.5'-78.5'	68.5'-78.5'	68.5'-78.5'	68.5'-78.5'	62.9'-72.9'	62.9'-72.9'	62.9'-72.9'	62.9'-72.9'	14.5'-24.5'	14.5'-24.5'	14.5'-24.5'	14.5'-24.5'
Passive Diffusion Bag Sample Depth (ft. btoc)		76.6'-78.1'	76.6'-78.1'			71.0'-72.5'	71.0'-72.5'			22.6'-24.1'	22.6'-24.1'	
Date Sampled	2/25/2003	4/7/2008	6/2/2010	June 2011 January 2012 July 2012 and January 2013	2/25/2003	4/7/2008	6/2/2010	June 2011 January 2012 July 2012 and January 2013	2/26/2003	4/7/2008	6/2/2010	June 2011 January 2012 July 2012 and January 2013
Laboratory	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton		STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton		STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	
Purge Method/Sample Method	PumpLFLS/Bailer	no purge/ PDB	no purge/ PDB		PumpLFLS/Bailer	no purge/ PDB	no purge/ PDB		PumpLFLS/Bailer	no purge/ PDB	no purge/ PDB	
Constituent												
Volatile Organic Compounds - SW8260B - (µg/L)				NOT SAMPLED per VIRP				NOT SAMPLED per VIRP				NOT SAMPLED per VIRP
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
1,1,1-Trichloroethane	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
1,1-Dichloroethane	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
1,1-Dichloroethene	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
1,4-Dioxane	<200	<250	<50		<200	<250	<50		<200	<250	<50	
Chloroform	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
cis-1,2-Dichloroethene	<2.5	<2.5	<1.0		<2.5	<2.5	<1.0		<2.5	<2.5	<1.0	
Ethylbenzene	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
p-Isopropyltoluene	NA	<5.0	<1.0		NA	<5.0	<1.0		NA	<5.0	<1.0	
Methylene chloride	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
Tetrachloroethene	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
trans-1,2-Dichloroethene	<2.5	<2.5	<1.0		<2.5	<2.5	<1.0		<2.5	<2.5	<1.0	
Toluene	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
Trichloroethene	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<1.0	
Vinyl Chloride	<5.0	<2.0	<1.0		<5.0	<2.0	<1.0		<5.0	<2.0	<1.0	
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA		NA	NA	NA		NA	NA	NA	
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed				Metals were not sampled and analyzed				Metals were not sampled and analyzed			
Total Silver												
Dissolved Silver												
Total Cadmium												
Dissolved Cadmium												
Total Chromium												
Dissolved Chromium												
Total Lead												
Dissolved Lead												
Total Copper												
Dissolved Copper												
Total Nickel												
Dissolved Nickel												
Total Zinc												
Dissolved Zinc												

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-14	MW-14 PRE	MW-14 POST	MW-14 LONG	MW-14 PRE	MW-14 POST	MW-14 LONG	MW-14 (7:10)	MW-14 (9:30)	MW-14 (12:15)
Sample Depth (well screen interval) (ft. bgs)	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'
Sample Depth (well screen interval) (ft. btoc)	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4
Passive Diffusion Bag Sample Depth (ft. btoc)										
Date Sampled	4/3/2003	4/21/2003	4/21/2003	4/21/2003	4/21/2003	4/21/2003	4/21/2003	6/13/2003	6/13/2003	6/13/2003
Laboratory	STL North Canton	STL North Canton	STL North Canton	STL North Canton	ASI	ASI	ASI	STL North Canton	STL North Canton	STL North Canton
Purge Method/Sample Method	PumpLFLS/ Bailer	PumpLFLS/ Bailer	PumpLFLS/ Bailer	PumpLFLS/ Bailer	PumpLFLS/ Bailer	PumpLFLS/ Bailer	PumpLFLS/ Bailer	PumpLFLS/ Bailer	PumpLFLS/ Bailer	PumpLFLS/ Bailer
Constituent										
Volatile Organic Compounds - SW8260B - (µg/L)										
1,1,1,2-Tetrachloroethane	<100	<6.2	<25	<25	<25	<100	<100	<250	<250	<250
1,1,1-Trichloroethane	<100	<6.2	<25	<25	<25	<100	<100	<250	<250	<250
1,1-Dichloroethane	<100	<6.2	<25	<25	<25	<100	<100	<250	<250	<250
1,1-Dichloroethene	<100	<6.2	<25	<25	<25	<100	<100	<250	<250	<250
1,4-Dioxane	<5000	<250	<1000	<1000	<1300	<5000	<5000	<10000	<10000	<10000
Chloroform	<100	<6.2	<25	<25	<25	<100	<100	<250	<250	<250
cis-1,2-Dichloroethene	**230**	**180**	**350**	**440**	**190**	**410**	**510**	**470**	**530**	**520**
Ethylbenzene	<100	<6.2	<25	<25	<25	<100	<100	<250	<250	<250
p-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	<100	<6.2	<25	<25	<25	<100	<100	<250	<250	<250
Tetrachloroethene	<100	<6.2	<25	<25	<25	<100	<100	<250	<250	<250
trans-1,2-Dichloroethene	<50	<3.1	<12	<12	<12	<100	<100	<120	<120	<120
Toluene	<100	<6.2	<25	<25	**29**	<100	<100	<250	<250	<250
Trichloroethene	**3000**	**2200**	**6300**	**8200**	**2400**	**8200**	**8800**	**7000**	**7700**	**7300**
Vinyl Chloride	<40	<6.2	<25	<25	<10	<40	<40	<250	<250	<250
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed.									
Total Silver										
Dissolved Silver										
Total Cadmium										
Dissolved Cadmium										
Total Chromium										
Dissolved Chromium										
Total Lead										
Dissolved Lead										
Total Copper										
Dissolved Copper										
Total Nickel										
Dissolved Nickel										
Total Zinc										
Dissolved Zinc										

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-14A	MW-14B	MW-14C	MW-14	MW-14	MW-14	Re-analysis MW-14	MW-14	Re-analysis MW-14	MW-14	MW-14	MW-14	MW-14
Sample Depth (well screen interval) (ft. bgs)	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'	71.2'-86.2'
Sample Depth (well screen interval) (ft. btoc)	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4	73.4-88.4
Passive Diffusion Bag Sample Depth (ft. btoc)	74.5-76	79.5-81	84.5-86	74.5-76	74.5-76	74.5-76	74.5-76						
Date Sampled	5/5/2004	5/5/2004	5/5/2004	10/12/2004	4/7/2008	6/2/2010	6/2/2010	6/3/2010	6/3/2010	6/8/2011	1/19/2012	7/11/2012	1/9/2013
Laboratory	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - North Canton	AES-Atlanta	AES-Atlanta	TestAmerica - Canton
Purge Method/Sample Method	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS
Constituent													
Volatile Organic Compounds - SW8260B - (µg/L)													
1,1,1,2-Tetrachloroethane	<200	<250	<200	<310	<330	<120	<25	<140	<29	<10	<1.0	<1.0	<100
1,1,1-Trichloroethane	<200	<250	<200	<310	<330	<120	<25	<140	<29	<10	<1.0	<1.0	<100
1,1-Dichloroethane	<200	<250	<200	<310	<330	<120	<25	<140	<29	<10	**4.5**	**3.3**	<100
1,1-Dichloroethene	<200	<250	<200	<310	<330	<120	**57**	<140	**58**	**56**	**110**	**90**	<100
1,4-Dioxane	<10000	<12000	<10000	<16000	<17000	<6200	<1700	<7100	<1400	NA	<100	<100	<5000
Chloroform	<200	<250	<200	<310	<330	<120	<25	<140	<29	<10	<1.0	<1.0	<100
cis-1,2-Dichloroethene	**500**	**450**	**450**	<310	**410**	**370**	**320**	**380**	**330**	**280**	**390**	**340**	**310**
Ethylbenzene	<200	<250	<200	<310	<330	<120	<25	<140	<29	<10	<1.0	<1.0	<100
p-Isopropyltoluene	NA	NA	NA	NA	<330	<120	<25	<140	<29	<10	<1.0	<1.0	<100
Methylene chloride	<200	<250	<200	<310	<330	<120	<25	<140	<29	<50	<1.0	<1.0	<100
Tetrachloroethene	<200	<250	<200	<310	<330	<120	<25	<140	<29	<10	**2.8**	**2.4**	<100
trans-1,2-Dichloroethene	<200	<250	<200	<310	<170	<120	<25	<140	<29	<10	**1.1**	<1.0	<100
Toluene	<200	<250	<200	<310	<330	<120	<25	<140	<29	<10	<1.0	<1.0	<100
Trichloroethene	**6800**	**6600**	**6100**	**1900**	**4800**	**3500**	**3000 E**	**3600**	**3200 E**	**3200**	**4000**	**3700**	**3400**
Vinyl Chloride	<200	<250	<200	<120	<130	<120	<25	<140	<29	<10	**1.9**	**2.3**	<100
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	<25	NA	NA	<29	<20	<5.0	<5.0	<20
Site-Specific Metals - SW6010B - (mg/L)													
Total Silver													
Dissolved Silver													
Total Cadmium													
Dissolved Cadmium													
Total Chromium													
Dissolved Chromium													
Total Lead	Metals were not sampled and aNAlyzed.												
Dissolved Lead													
Total Copper													
Dissolved Copper													
Total Nickel													
Dissolved Nickel													
Total Zinc													
Dissolved Zinc													

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-15	MW-15	MW-15	MW-15	MW-16	MW-16	MW-16	MW-16	MW-17	MW-17A	MW-17B	MW-17C	MW-17	MW-17	MW-17	MW-17
Sample Depth (well screen interval) (ft. bgs)	6.7'-11.7'	6.7'-11.7'	6.7'-11.7'	6.7'-11.7'	6.7'-11.7'	6.7'-11.7'	6.7'-11.7'	6.7'-11.7'	33'-47.5'	33'-47.5'	33'-47.5'	33'-47.5'	33'-47.5'	33'-47.5'	33'-47.5'	33'-47.5'
Sample Depth (well screen interval) (ft. btoc)	9.3'-14.3'	9.3'-14.3'	9.3'-14.3'	9.3'-14.3'	9.2'-14.2'	9.2'-14.2'	9.2'-14.2'	9.2'-14.2'	35.5-50	35.5-50	35.5-50	35.5-50	35.5-50	35.5-50	35.5-50	35.5-50
Passive Diffusion Bag Sample Depth (ft. btoc)		12.3'-13.8'	12.3'-13.8'			12.2'-13.7'	12.2'-13.7'			36.4-37.9	41.4-42.9	46.4-47.9	36.4-37.9	36.4-37.9	36.4-37.9	
Date Sampled	4/3/2003	4/7/2008	6/2/2010	June 2011 January 2012 July 2012 and January 2013	4/4/2003	4/7/2008	6/2/2010	June 2011 January 2012 July 2012 and January 2013	5/14/2003	5/4/2004	5/4/2004	5/4/2004	10/12/2004	4/7/2008	6/2/2010	June 2011 January 2012 July 2012 and January 2013
Laboratory	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton		STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton		STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	
Purge Method/Sample Method	PumpLFLS/ Bailer	no purge/ PDB	no purge/ PDB		PumpLFLS/ Bailer	no purge/ PDB	no purge/ PDB		PumpLFLS/ Bailer	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	
Constituent																
Volatile Organic Compounds - SW8260B - (µg/L)				NOT SAMPLED per VIRP				NOT SAMPLED per VIRP								NOT SAMPLED per VIRP
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1,1-Trichloroethane	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1-Dichloroethane	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1-Dichloroethene	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,4-Dioxane	<250	<250	<50		<250	<250	<50		<200	<250	<250	<250	<250	<250	<50	
Chloroform	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
cis-1,2-Dichloroethene	<2.5	<2.5	<1.0		<2.5	<2.5	<1.0		<2.5	<5.0	<5.0	<5.0	<5.0	<2.5	<1.0	
Ethylbenzene	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
p-Isopropyltoluene	NA	<5.0	<1.0		NA	<5.0	<1.0		NA	NA	NA	NA	NA	<5.0	<1.0	
Methylene chloride	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Tetrachloroethene	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
trans-1,2-Dichloroethene	<2.5	<2.5	<1.0		<2.5	<2.5	<1.0		<2.5	<5.0	<5.0	<5.0	<5.0	<2.5	<1.0	
Toluene	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Trichloroethene	<5.0	<5.0	<1.0		<5.0	<5.0	<1.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Vinyl Chloride	<2.0	<2.0	<1.0		<2.0	<2.0	<1.0		<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA		NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	
Site-Specific Metals - SW6010B - (mg/L)																
Total Silver	Metals were not sampled and analyzed				Metals were not sampled and analyzed				Metals were not sampled and analyzed							
Dissolved Silver																
Total Cadmium																
Dissolved Cadmium																
Total Chromium																
Dissolved Chromium																
Total Lead																
Dissolved Lead																
Total Copper																
Dissolved Copper																
Total Nickel																
Dissolved Nickel																
Total Zinc																
Dissolved Zinc																

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-18	MW-18A	MW-18B	MW-18C	MW-18	MW-18	MW-18	MW-18	MW-19	MW-19	MW-19A	MW-19B	MW-19
Sample Depth (well screen interval) (ft. bgs)	27'-42'	27'-42'	27'-42'	27'-42'	27'-42'	27'-42'	27'-42'	27'-42'	36.2'-46.2'	36.2'-46.2'	36.2'-46.2'	36.2'-46.2'	36.2'-46.2'
Sample Depth (well screen interval) (ft. btoc)	29.7'-44.7'	29.7'-44.7'	29.7'-44.7'	29.7'-44.7'	29.6-44.6	29.6-44.6	29.7'-44.7'	29.7'-44.7'	38.7-48.7	38.7-48.7	38.7-48.7	38.7-48.7	38.7-48.7
Passive Diffusion Bag Sample Depth (ft. btoc)		31.1-32.6	36.1-37.6	41.1-42.6	31.1-32.6	31.1-32.6	31.1-32.6				39.9-41.4	44.9-46.4	39.9-41.4
Date Sampled	5/14/2003	5/4/2004	5/4/2004	5/4/2004	10/12/2004	4/7/2008	6/2/2010	June 2011 January 2012 July 2012 and January 2013	5/28/2003	6/13/2003	5/5/2004	5/5/2004	10/12/2004
Laboratory	STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton		STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton
Purge Method/Sample Method	PumpLFLS/Bailer	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB		PumpLFLS/Bailer	PumpLFLS/Bailer	PumpLFSL/Bailer/ PDB	PumpLFSL/Bailer/ PDB	PumpLFSL/Bailer/ PDB
Constituent													
Volatile Organic Compounds - SW8260B - (µg/L)								NOT SAMPLED per VIRP					
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<250	<500	<1200	<1200	<1700
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<250	<500	<1200	<1200	<1700
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<250	<500	<1200	<1200	<1700
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<250	<500	<1200	<1200	<1700
1,4-Dioxane	<200	<250	<250	<250	<250	<250	<50		<10000	<20000	<62000	<62000	<83000
Chloroform	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<250	<500	<1200	<1200	<1700
cis-1,2-Dichloroethene	<2.5	<5.0	<5.0	<5.0	<5.0	<2.5	<1.0		<120	<250	<1200	<1200	<1700
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<250	<500	<1200	<1200	<1700
p-Isopropyltoluene	NA	NA	NA	NA	NA	<5.0	<1.0		NA	NA	NA	NA	NA
Methylene chloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		380 B	<500	<1200	<1200	<1700
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<250	<500	<1200	<1200	<1700
trans-1,2-Dichloroethene	<2.5	<5.0	<5.0	<5.0	<5.0	<2.5	<1.0		<120	<250	<1200	<1200	<1700
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<250	<500	<1200	<1200	<1700
Trichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		**8000**	**12000**	**20000**	**19000**	**14000**
Vinyl Chloride	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0		<250	<500	<1200	<1200	<670
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA
Site-Specific Metals - SW6010B - (mg/L)													
Total Silver	Metals were not sampled and analyzed								Metals were not sampled and aNAlyzed		<0.1		<0.1
Dissolved Silver											NA		NA
Total Cadmium											<0.005		<0.005
Dissolved Cadmium											NA		NA
Total Chromium											<0.1		<0.1
Dissolved Chromium											NA		NA
Total Lead											<0.015		<0.015
Dissolved Lead											NA		NA
Total Copper											<1.0		<1.0
Dissolved Copper											NA		NA
Total Nickel											<0.1		<0.1
Dissolved Nickel											NA		NA
Total Zinc											<2.0		<2.0
Dissolved Zinc											NA		NA

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-19	MW-19	Re-analyzed MW-19	MW-19	Re-analyzed MW-19	MW-19	MW-19	MW-19	MW-19
Sample Depth (well screen interval) (ft. bgs)	36.2'-46.2'	36.2'-46.2'	36.2'-46.2'	36.2'-46.2'	36.2'-46.2'	36.2'-46.2'	36.2'-46.2'	36.2'-46.2'	36.2'-46.2'
Sample Depth (well screen interval) (ft. btoc)	38.7-48.7	38.7-48.7	38.7-48.7	38.7-48.7	38.7-48.7	38.7-48.7	38.7-48.7	38.7-48.7	38.7-48.7
Passive Diffusion Bag Sample Depth (ft. btoc)	39.9-41.4	39.9-41.4	39.9-41.4						
Date Sampled	4/7/2008	6/2/2010	6/2/2010	6/3/2010	6/3/2010	6/8/2011	1/18/2012	7/11/2012	1/9/2013
Laboratory	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - Tampa	AES-Atlanta	AES-Atlanta	TestAmerica - Canton
Purge Method/Sample Method	no purge/ PDB	no purge/ PDB	no purge/ PDB	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS
Constituent									
Volatile Organic Compounds - SW8260B - (µg/L)									
1,1,1,2-Tetrachloroethane	<100	<56	<56	<200	<40	<10	**10**	**12**	<200
1,1,1-Trichloroethane	<100	<56	<56	<200	<40	<10	**7.4**	**6.4**	<200
1,1-Dichloroethane	<100	<56	<56	<200	<40	<10	<1.0	<1.0	<200
1,1-Dichloroethene	<100	**82**	**100**	<200	**72**	**18**	**45**	**37**	<200
1,4-Dioxane	<5000	<2800	<2800	<10000	<2000	NA	<100	<100	<10000
Chloroform	<100	<56	<56	<200	<40	<10	**1.9**	**2.2**	<200
cis-1,2-Dichloroethene	<50	<56	<56	<200	<40	<10	**12**	**13**	<200
Ethylbenzene	<100	<56	<56	<200	<40	<10	<1.0	<1.0	<200
p-Isopropyltoluene	<100	<56	<56	<200	<40	<10	<1.0	<1.0	<200
Methylene chloride	<100	<56	<56	<200	<40	<50	<1.0	<1.0	<200
Tetrachloroethene	<100	<56	<56	<200	<40	<10	**2.3**	**2.3**	<200
trans-1,2-Dichloroethene	<50	<56	<56	<200	<40	<10	<1.0	<1.0	<200
Toluene	<100	<56	<56	<200	<40	<10	<1.0	<1.0	<200
Trichloroethene	**1500**	**1700**	**1900**	**5800**	**5800 E**	**4000**	**5900**	**5100**	**6400**
Vinyl Chloride	<40	<56	<56	<200	<40	<10	<1.0	<1.0	<200
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	<11	NA	NA	<40	<20	<5.0	<5.0	<2.0
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed								
Total Silver									
Dissolved Silver									
Total Cadmium									
Dissolved Cadmium									
Total Chromium									
Dissolved Chromium									
Total Lead									
Dissolved Lead									
Total Copper									
Dissolved Copper									
Total Nickel									
Dissolved Nickel									
Total Zinc									
Dissolved Zinc									

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-20	MW-20 (12:10)	MW-20 (15:00)	MW-20 (17:30)	MW-20A	MW-20B	MW-20C	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20
Sample Depth (well screen interval) (ft. bgs)	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'	91.7'-106.7'
Sample Depth (well screen interval) (ft. btoc)	91.5-106.5	91.5-106.5	91.5-106.5	91.5-106.5	91.5-106.5	91.5-106.5	91.5-106.5	91.5-106.5	91.5-106.5	91.5-106.5	91.5-106.5	91.5-106.5	91.5-106.5	91.5-106.5	91.5-106.5
Passive Diffusion Bag Sample Depth (ft. btoc)					92.6-94.1	97.6-99.1	102.6-104.1		92.6-94.1	92.6-94.1					
Date Sampled	5/28/2003	6/12/2003	6/12/2003	6/12/2003	5/6/2004	5/6/2004	5/6/2004	10/28/2004	4/8/2008	6/1/2010	6/2/2010	6/9/2011	1/18/2012	7/11/2012	1/10/2013
Laboratory	STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - Tampa	AES-Atlanta	AES-Atlanta	TestAmerica - Canton
Purge Method/Sample Method	PumpLFLS/ Bailer	PumpLFLS/ Bailer	PumpLFLS/ Bailer	PumpLFLS/ Bailer	no purge/ PDB	no purge/ PDB	no purge/ PDB	PumpLFLS/Bailer	no purge/ PDB	no purge/ PDB	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS
Constituent															
Volatile Organic Compounds - SW8260B - (µg/L)															
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<7.2	<7.2	<5.0	<10.0	<10.0	<5.0	<5.7	<1.0	<1.0	<1.0	<9.1
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<7.2	<7.2	<5.0	<10.0	<10.0	<5.0	<5.7	<1.0	<1.0	<1.0	<9.1
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<7.2	<7.2	<5.0	<10.0	<10.0	<5.0	<5.7	<1.0	<1.0	<1.0	<9.1
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<7.2	<7.2	<5.0	<10.0	<10.0	<5.0	<5.7	**2.0**	**6.3**	**3.6**	<9.1
1,4-Dioxane	<200	<200	<200	<200	<360	<360	<250	<500	<500	<250	<290	NA	<100	<100	<450
Chloroform	<5.0	<5.0	<5.0	<5.0	<7.2	<7.2	<5.0	<10.0	<10.0	<5.0	<5.7	<1.0	<1.0	<1.0	<9.1
cis-1,2-Dichloroethene	**14**	**12**	**15**	**20**	**40**	**40**	**33**	**52**	**120**	**150**	**170**	**210**	**310**	**270**	**320**
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<7.2	<7.2	<5.0	<10.0	<10.0	<5.0	<5.7	<1.0	<1.0	<1.0	<9.1
p-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	<10.0	<5.0	<5.7	<1.0	<1.0	<1.0	<9.1
Methylene chloride	<5.0	<5.0	<5.0	<5.0	<7.2	<7.2	<5.0	<10.0	<10.0	<5.0	<5.7	<5.0	<1.0	<1.0	<9.1
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	<7.2	<7.2	<5.0	<10.0	<10.0	<5.0	<5.7	<1.0	<1.0	<1.0	<9.1
trans-1,2-Dichloroethene	<2.5	<2.5	<2.5	<2.5	<7.2	<7.2	<5.0	<10.0	<5.0	<5.0	<5.7	<1.0	<1.0	<1.0	<9.1
Toluene	<5.0	**5.7**	<5.0	<5.0	<7.2	<7.2	<5.0	<10.0	<10.0	<5.0	<5.7	<1.0	<1.0	<1.0	<9.1
Trichloroethene	<5.0	<5.0	<5.0	<5.0	<7.2	<7.2	<5.0	<10.0	<10.0	<5.0	<5.7	**2.0**	<1.0	<1.0	<9.1
Vinyl Chloride	<5.0	<5.0	<5.0	<5.0	<2.9	<2.9	<2.0	<4.0	<4.0	**15**	<5.7	<1.0	**2.0**	**1.8**	<9.1
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	<2.0	<20	<5.0	<5.0	<2.0
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed														
Total Silver															
Dissolved Silver															
Total Cadmium															
Dissolved Cadmium															
Total Chromium															
Dissolved Chromium															
Total Lead															
Dissolved Lead															
Total Copper															
Dissolved Copper															
Total Nickel															
Dissolved Nickel															
Total Zinc															
Dissolved Zinc															

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-21	MW-21A	MW-21B	MW-21C	MW-21	MW-21	MW-21	MW-21
Sample Depth (well screen interval) (ft. bgs)	89.7'-104.7'	89.7'-104.7'	89.7'-104.7'	89.7'-104.7'	89.7'-104.7'	89.7'-104.7'	89.7'-104.7'	89.7'-104.7'
Sample Depth (well screen interval) (ft. btoc)	89.4-104.4	89.4-104.4	89.4-104.4	89.4-104.4	89.4-104.4	89.4-104.4	89.4-104.4	89.4-104.4
Passive Diffusion Bag Sample Depth (ft. btoc)		90.7-92.2	95.7-97.2	100.7-102.2	90.7-92.2	90.7-92.2	90.7-92.2	
Date Sampled	9/10/2003	5/7/2004	5/7/2004	5/7/2004	10/12/2004	4/8/2008	6/1/2010	June 2011 January 2012 July 2012 and January 2013
Laboratory	STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	
Purge Method/Sample Method	PumpLFLS/ Bailer	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	
Constituent								
Volatile Organic Compounds - SW8260B - (µg/L)								NOT SAMPLED per VIRP
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
1,4-Dioxane	<200	<250	<250	<250	<250	<250	<50	
Chloroform	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
cis-1,2-Dichloroethene	<2.5	<5.0	<5.0	<5.0	<5.0	<2.5	<1.0	
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
p-Isopropyltoluene	NA	NA	NA	NA	NA	<5.0	<1.0	
Methylene chloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
trans-1,2-Dichloroethene	<2.5	<5.0	<5.0	<5.0	<5.0	<2.5	<1.0	
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Trichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	
Vinyl Chloride	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	NA	NA	
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed							
Total Silver								
Dissolved Silver								
Total Cadmium								
Dissolved Cadmium								
Total Chromium								
Dissolved Chromium								
Total Lead								
Dissolved Lead								
Total Copper								
Dissolved Copper								
Total Nickel								
Dissolved Nickel								
Total Zinc								
Dissolved Zinc								

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-22	MW-22A	MW-22B	MW-22C	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22
Sample Depth (well screen interval) (ft. bgs)	98.9'-113.9'	98.9'-113.9'	98.9'-113.9'	98.9'-113.9'	98.9'-113.9'	98.9'-113.9'	98.9'-113.9'	98.9'-113.9'	98.9'-113.9'	98.9'-113.9'	98.9'-113.9'
Sample Depth (well screen interval) (ft. btoc)	98.7-113.7	98.7-113.7	98.7-113.7	98.7-113.7	98.7-113.7	98.7-113.7	98.7-113.7	98.7-113.7	98.7-113.7	98.7-113.7	98.7-113.7
Passive Diffusion Bag Sample Depth (ft. btoc)		100-101.5	105-106.5	110-111.5	100-101.5	100-101.5	100-101.5				
Date Sampled	9/10/2003	5/5/2004	5/5/2004	5/5/2004	10/12/2004	4/7/2008	6/1/2010	6/8/2011	1/17/2012	7/10/2012	1/10/2013
Laboratory	STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	TestAmerica - Tampa	AES-Atlanta	AES-Atlanta	TestAmerica - Canton
Purge Method/Sample Method	PumpLFLS/Bailer	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS
Constituent											
Volatile Organic Compounds - SW8260B - (µg/L)											
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	<200	<250	<250	<250	<250	<250	<50	NA	<100	<100	<50
Chloroform	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<2.5	<5.0	<5.0	<5.0	<5.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NA	NA	NA	NA	NA	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5	<1.0	<1.0	<1.0
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<2.5	<5.0	<5.0	<5.0	<5.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	NA	NA	<2.0	NA	NA	NA
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed										
Total Silver											
Dissolved Silver											
Total Cadmium											
Dissolved Cadmium											
Total Chromium											
Dissolved Chromium											
Total Lead											
Dissolved Lead											
Total Copper											
Dissolved Copper											
Total Nickel											
Dissolved Nickel											
Total Zinc											
Dissolved Zinc											

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-23	MW-23A	MW-23B	MW-23C	MW-23	MW-23	MW-23	MW-23	MW-24	MW-24	MW-24	MW-24	MW-24
Sample Depth (well screen interval) (ft. bgs)	91'-106'	91'-106'	91'-106'	91'-106'	91'-106'	91'-106'	91'-106'	91'-106'	136.9'-146.7'	136.9'-146.7'	136.9'-146.7'	136.9'-146.7'	136.9'-146.7'
Sample Depth (well screen interval) (ft. btoc)	90.8'-105.8'	90.8'-105.8'	90.8'-105.8'	90.8'-105.8'	90.8'-105.8'	90.8'-105.8'	90.8'-105.8'	90.8'-105.8'	136.7'-146.5'	136.7'-146.5'	136.7'-146.5'	136.7'-146.5'	136.7'-146.5'
Passive Diffusion Bag Sample Depth (ft. btoc)		92.1-93.6	97.1-98.6	102.1-103.5	92.1-93.6	92.1-93.6	92.1-93.6				143.3'-144.8'	143.3'-144.8'	
Date Sampled	9/11/2003	5/5/2004	5/5/2004	5/5/2004	10/12/2004	4/7/2008	6/1/2010	June 2011 January 2012 July 2012 and January 2013	10/12/2004	10/28/2004	4/7/2008	6/1/2010	June 2011 January 2012 July 2012 and January 2013
Laboratory	STL North Canton	STL North Canton	STL North Canton	STL North Canton	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton		STL Savannah	STL North Canton	TestAmerica - North Canton	TestAmerica - North Canton	
Purge Method/Sample Method	PumpLFLS/ Bailer	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB	no purge/ PDB		PumpLFLS/ Bailer	PumpLFLS/ Bailer	no purge/ PDB	no purge/ PDB	
Constituent													
Volatile Organic Compounds - SW8260B - (µg/L)								NOT SAMPLED per VIRP					NOT SAMPLED per VIRP
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<1.0	<5.0	<5.0	<1.0	
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<1.0	<5.0	<5.0	<1.0	
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<1.0	<5.0	<5.0	<1.0	
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<1.0	<5.0	<5.0	<1.0	
1,4-Dioxane	<200	<250	<250	<250	<250	<250	<50		NA	<250	<250	<50	
Chloroform	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<1.0	<5.0	<5.0	<1.0	
cis-1,2-Dichloroethene	<2.5	<5.0	<5.0	<5.0	<5.0	<2.5	<1.0		<1.0	<5.0	<2.5	<1.0	
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<1.0	<5.0	<5.0	<1.0	
p-Isopropyltoluene	NA	NA	NA	NA	NA	<5.0	<1.0		NA	NA	<5.0	<1.0	
Methylene chloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<5.0	<5.0	<5.0	<1.0	
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<1.0	<5.0	<5.0	<1.0	
trans-1,2-Dichloroethene	<2.5	<5.0	<5.0	<5.0	<5.0	<2.5	<1.0		<1.0	<5.0	<2.5	<1.0	
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<1.0	<5.0	<5.0	<1.0	
Trichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0		<1.0	<5.0	<5.0	<1.0	
Vinyl Chloride	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0		<1.0	<2.0	<2.0	<1.0	
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Site-Specific Metals - SW6010B - (mg/L)													
Total Silver	Metals were not sampled and analyzed								Metals were not sampled and analyzed				
Dissolved Silver													
Total Cadmium													
Dissolved Cadmium													
Total Chromium													
Dissolved Chromium													
Total Lead													
Dissolved Lead													
Total Copper													
Dissolved Copper													
Total Nickel													
Dissolved Nickel													
Total Zinc													
Dissolved Zinc													

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-25	MW-25	MW-25	MW-25	MW-25	MW-26	MW-26	MW-26	MW-27	MW-27	MW-27	MW-27	MW-27
Sample Depth (well screen interval) (ft. bgs)	91.8-106.8'	91.8-106.8'	91.8-106.8'	91.8-106.8'	91.8-106.8'	1.0-6.0'	1.0-6.0'	1.0-6.0'	2.2-7.2'	2.2-7.2'	2.2-7.2'	2.2-7.2'	2.2-7.2'
Sample Depth (well screen interval) (ft. btoc)	91.5-106.5'	91.5-106.5'	91.5-106.5'	91.5-106.5'	91.5-106.5'	4.9-9.9'	4.9-9.9'	4.9-9.9'	5.0-10.0'	5.0-10.0'	5.0-10.0'	5.0-10.0'	5.0-10.0'
Passive Diffusion Bag Sample Depth (ft. btoc)													
Date Sampled	6/24/2010	6/9/2011	1/18/2012	7/11/2012	1/9/2013	10/20/2010	6/9/2011	January 2012 July 2012 and January 2013	10/20/2010	6/9/2011	1/18/2012	7/11/2012	1/9/2013
Laboratory	TestAmerica - North Canton	TestAmerica - Tampa	AES-Atlanta	AES-Atlanta	Test America - Canton	AES-Atlanta	TestAmerica - Tampa		AES-Atlanta	TestAmerica - Tampa	AES-Atlanta		Test America - Canton
Purge Method/Sample Method	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS		Pump-LFLS	Pump-LFLS	Pump-LFLS		Pump-LFLS
Constituent													
Volatile Organic Compounds - SW8260B - (µg/L)								NOT SAMPLED per VIRP				DRY NOT SAMPLED	
1,1,1,2-Tetrachloroethane	<83	<20	<1.0	<1.0	<130	<5.0	<1.0		<5.0	<1.0	<1.0		<1.0
1,1,1-Trichloroethane	<83	<20	<1.0	<1.0	<130	<5.0	<1.0		<5.0	<1.0	<1.0		<1.0
1,1-Dichloroethane	<83	<20	<1.0	<1.0	<130	<5.0	<1.0		<5.0	<1.0	<1.0		<1.0
1,1-Dichloroethene	<83	**20**	**34**	**28**	<130	<5.0	<1.0		<5.0	**1.2**	**2.4**		**2.9**
1,4-Dioxane	<4200	NA	<100	<100	<6300	<150	NA		<150	NA	<100		<50
Chloroform	<83	<20	<1.0	<1.0	<130	<5.0	<1.0		<5.0	<1.0	<1.0		<1.0
cis-1,2-Dichloroethene	**820**	**880**	**1000**	**860**	**860**	<5.0	<1.0		**5.2**	**6.6**	**10**		**9.2**
Ethylbenzene	<83	<20	<1.0	<1.0	<130	<5.0	<1.0		<5.0	<1.0	<1.0		<1.0
p-Isopropyltoluene	<83	<20	<1.0	<1.0	<130	NA	<1.0		NA	<1.0	<1.0		<1.0
Methylene chloride	<83	<100	<1.0	<1.0	<130	<5.0	<5.0		<5.0	<5.0	<1.0		<1.0
Tetrachloroethene	<83	<20	<1.0	<1.0	<130	<5.0	<1.0		<5.0	<1.0	<1.0		<1.0
trans-1,2-Dichloroethene	<83	<20	<1.0	<1.0	<130	<5.0	<1.0		<5.0	<1.0	<1.0		<1.0
Toluene	<83	<20	<1.0	<1.0	<130	<5.0	<1.0		<5.0	<1.0	<1.0		<1.0
Trichloroethene	**2800**	**3600**	**4700**	**3900**	**4300**	<5.0	<1.0		**10**	**15**	**5.8**		**13**
Vinyl Chloride	<83	<20	**36**	**44**	<130	<2.0	<1.0		<2.0	<1.0	<1.0		<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	<17	<20	<5.0	<5.0	<25	NA	<2.0		NA	<2.0	<5.0		<2.0
Site-Specific Metals - SW6010B - (mg/L)													
Total Silver	Metals were not sampled and analyzed					Metals were not sampled and analyzed			Metals were not sampled and analyzed				
Dissolved Silver													
Total Cadmium													
Dissolved Cadmium													
Total Chromium													
Dissolved Chromium													
Total Lead													
Dissolved Lead													
Total Copper													
Dissolved Copper													
Total Nickel													
Dissolved Nickel													
Total Zinc													
Dissolved Zinc													

Notes:

NA	Constituent not analyzed
bgs	Below ground surface
ft. bgs	Feet below ground surface
B	Result may be a false positive or biased high based upon blank data.
E	Estimated concentration
btoc	Below top of well casing
mg/L	Milligrams per liter
µg/L	Micrograms per liter
PumpLFLS/ Bailer	Well was purged using the low flow/low stress method with a submersible Grundfos pump and clean dedicated tubing and the groundwater sample was collected using a disposable teflon bailer and rope.
Bailer/Bailer	Well was purged and sampled with a bailer.
Pump-LFLS	Well was purged and sampled using the low flow/low stress method with a submersible bladder or peristaltic pump and clean dedicated tubing
no purge/PDB	Well was not purged, groundwater sample collected with Passive Diffusion Bag Sampler
VIRP	Voluntary Investigation and Remediation Plan

Prepared By: DP 02/06/13
Checked By: MHA 2/19/13

TABLE 2: SUMMARY OF DETECTED CONSTITUENTS IN GROUNDWATER SAMPLES

Sample ID	MW-28	MW-28	MW-28	MW-28	MW-28
Sample Depth (well screen interval) (ft. bgs)	2.1-7.1'	2.1-7.1'	2.1-7.1'	2.1-7.1'	2.1-7.1'
Sample Depth (well screen interval) (ft. btoc)	5.0-10.0'	5.0-10.0'	5.0-10.0'	5.0-10.0'	5.0-10.0'
Passive Diffusion Bag Sample Depth (ft. btoc)					
Date Sampled	10/20/2010	6/9/2011	1/18/2012	7/11/2012	1/9/2013
Laboratory	AES-Atlanta	TestAmerica - Tampa	AES-Atlanta	AES-Atlanta	Test America - Canton
Purge Method/Sample Method	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS	Pump-LFLS
Constituent					
Volatile Organic Compounds - SW8260B - (µg/L)					
1,1,1,2-Tetrachloroethane	<5.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<5.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<5.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<5.0	**1.4**	**1.8**	<1.0	<1.0
1,4-Dioxane	<150	NA	<100	<100	<50
Chloroform	<5.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	**9.4**	**18**	**14**	**12**	**4.7**
Ethylbenzene	<5.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NA	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<1.0	<1.0	<1.0
Tetrachloroethene	<5.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<5.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<5.0	**4.5**	**4.3**	**3.5**	<1.0
Vinyl Chloride	<2.0	**1.0**	<1.0	**1.1**	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B (ug/L)	NA	<2.0	<5.0	<5.0	<2.0
Site-Specific Metals - SW6010B - (mg/L)	Metals were not sampled and analyzed				
Total Silver					
Dissolved Silver					
Total Cadmium					
Dissolved Cadmium					
Total Chromium					
Dissolved Chromium					
Total Lead					
Dissolved Lead					
Total Copper					
Dissolved Copper					
Total Nickel					
Dissolved Nickel					
Total Zinc					
Dissolved Zinc					

TABLE 3: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		**Manson Branch #1**			**Manson Branch #2 (MB#2)**																	
Sample Location		**Surface water in Manson Branch south side of Hwy 24 Bridge**			**Seep in a Draw Down Slope of Thermo King plant building**																	
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**5/3/2000**			**5/3/2000**			**11/2/2000**	**1/15/2003**	**3/24/2004**	**6/23/2004**	**8/31/2004**	**11/17/2004**	**2/27/2008**	**4/21/2010**	**6/2/2010**	**6/7/2011**	**1/17/2012**	**7/10/2012**	**8/7/2012**	**11/19/2012**	**1/8/2013**
Laboratory		**Lancaster Labs**	**STL-North Canton**	**Savannah Labs**	**Lancaster Labs**	**STL-North Canton**	**Savannah Labs**	**STL-North Canton**	**STL-North Canton**	**STL-North Canton**	**STL-North Canton**	**STL-North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**TestAmerica - North Canton**
CONSTITUENT (µg/L)																						
1,1,1-Trichloroethane	not established	<5.0	<5.0	<5.0	**200**	**160**	**170**	**290**	**15**	**39**	**300**	**1900**	**320**	**8.4**		**61**	**21**	**13**	<1.0	<1.0	<1.0	<5.0
1,1,2-Trichloroethane	16	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25.0	<4.0	<6.7	<250	<620	<190	<5.0		<50	**1.2**	<1.0	<1.0	<1.0	<1.0	<5.0
1,1-Dichloroethene	7100	<5.0	<5.0	<5.0	**69**	**50**	**52**	**97**	**12**	**24**	<250	**1000**	**210**	**11**		**160**	**50**	**53**	**7.3**	**1.4**	**20**	**17**
1,1-Dichloroethane	not established	<5.0	<5.0	<5.0	<5.0	<17	<5.0	<25.0	<4.0	<6.7	<250	<620	<190	<5.0		<50	**1.5**	**1.5**	**2.5**	**4.4**	**6.9**	**8.2**
1,4-Dioxane	not established	<250	<250	NA	<250	<830	NA	<1200	<200	<330	<12000	<31000	<9600	<250		<2500	NA	<100	<100	<100	NA	<250
Chloroform	470	<5.0	<5.0	<5.0	<5.0	<17	<5.0	<25.0	<4.0	<6.7	<250	<620	<190	<5.0		<50	**1.5**	**1.3**	<1.0	<1.0	<1.0	<5.0
cis-1,2-Dichloroethene	not established	<5.0	<2.5	<5.0	**36**	**30**	**27**	**59**	**36**	**61**	<250	<620	<190	**89**	DRY	**180**	**70**	**85**	**95**	**46**	**170**	**170**
Ethylbenzene	2100	<5.0	<5.0	<5.0	<5.0	<17	<5.0	<25.0	<4.0	<6.7	<250	<620	<190	<5.0	Not Sampled	<50	<1.0	<1.0	**4.6**	**13**	<1.0	<5.0
p-Isopropyltoluene	not established	<5.0	<5.0	<5.0	<5.0	<17	<5.0	<25.0	NR	NR	NR	NR	NR	<5.0		<50	<1.0	<1.0	**5.0**	<1.0	<1.0	<5.0
Toluene	5980	<5.0	<5.0	<5.0	<5.0	<17	<5.0	<25.0	<4.0	<6.7	<250	<620	<190	<5.0		<50	**2.5**	<1.0	**180**	**22**	<1.0	<5.0
trans-1,2-Dichloroethene	10000	<5.0	<2.5	<5.0	<5.0	<8.3	<5.0	<12	<2.0	<6.7	<250	<620	<190	<2.5		<50	<1.0	<1.0	<1.0	**2.3**	**2.2**	<5.0
Trichloroethene	30	<5.0	<5.0	<5.0	**490**	**460**	**440**	**720**	**120**	**210**	**1300**	**4400**	**930**	**310**		**1700**	**280**	**340**	**16**	<1.0	<1.0	<5.0
Vinyl Chloride	2.4	<2.0	<5.0	<5.0	<2.0	<6.7	<2.0	<10.0	<4.0	<6.7	<100	<250	<77	<4.0		<50	**2.5**	**2.5**	**20**	**9.3**	**84**	**71**
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	<20	NA	NA	<5.0	<5.0	NA

TABLE 3: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		**Manson Branch #3 (MB#3)**					**Manson Branch #4**	**Manson Branch #5 (MB#5)**					**Manson Branch #6**	**Manson Branch #7**	**Manson Branch #8**	**Manson Branch #9**	**Manson Branch #10**	**Manson Branch #11**
Sample Location		**Surface water in Manson Branch located 500 ft downstream of Hwy 24**					**Surface water in Manson Branch located 700 ft downstream of Hwy 24**	**Surface water in Manson Branch located 900 ft downstream of Hwy 24**					**Surface water in Manson Branch located 1100 ft downstream of Hwy 24**	**Surface water in Manson Branch located 1300 ft downstream of Hwy 24**	**Surface water in Manson Branch located 1575 ft downstream of Hwy 24**	**Surface water in Manson Branch located 2900 ft upstream of Hwy 17**	**Surface water in Manson Branch located 2100 ft upstream of Hwy 17**	**Surface water in Manson Branch located 1200 ft upstream of Hwy 17**
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**6/7/2000**	**6/7/2011**	**1/17/2012**	**7/10/2012**	**1/8/2013**	**6/7/2000**	**6/7/2000**	**6/7/2011**	**1/17/2012**	**7/10/2012**	**1/8/2013**	**6/7/2000**	**6/7/2000**	**6/7/2000**	**6/6/2000**	**6/6/2000**	**6/6/2000**
Laboratory		**STL- North Canton**	**TestAmerica - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**TestAmerica - Canton**	**STL- North Canton**	**STL- North Canton**	**TestAmerica - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**TestAmerica - Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**
CONSTITUENT (µg/L)																		
1,1,1-Trichloroethane	not established	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	16	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7100	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	not established	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	not established	<250	NA	<100	<100	<50	<250	<250	NA	<100	<100	<50	<250	<250	<250	<250	<250	<250
Chloroform	470	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	not established	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Ethylbenzene	2100	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	not established	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	5980	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	10000	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Trichloroethene	30	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	2.4	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	<2.0	NA	NA	NA	NA	NA	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		**Manson Branch #12**	**Manson Branch #14**			**Manson Branch #15 (MB#15)**							**Manson Branch #16 (MB#16)**						
Sample Location		**Surface water in Manson Branch located at Hwy 17 bridge**	**Surface water in Manson Branch located at Hwy 24 bridge**			**Surface water in Manson Branch located about 450 ft downstream of Hwy 24 bridge**							**Surface water in Manson Branch located about 700 ft downstream of Hwy 24 bridge**						
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**6/6/2000**	**1/15/2003**	**2/26/2008**	**4/22/2010**	**1/15/2003**	**2/27/2008**	**4/21/2010**	**6/7/2011**	**1/17/2012**	**7/10/2012**	**1/8/2013**	**1/15/2003**	**2/27/2008**	**4/21/2010**	**6/7/2011**	**1/17/2012**	**7/10/2012**	**1/8/2013**
Laboratory		**STL- North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**TestAmerica - Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**TestAmerica - Canton**
CONSTITUENT (µg/L)																			
1,1,1-Trichloroethane	not established	<5.0	<1.0	<5.0	<5.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0
1,1,2-Trichloroethane	16	<5.0	<1.0	<1.0	<5.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0
1,1-Dichloroethene	7100	<5.0	<1.0	<5.0	<5.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0
1,1-Dichloroethane	not established	<5.0	<1.0	<1.0	<5.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0
1,4-Dioxane	not established	<250	<200	<250	<250	<200	<250	<250	NA	<100	<100	<50	<200	<250	<250	NA	<100		<50
Chloroform	470	<5.0	<1.0	<1.0	<5.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0
cis-1,2-Dichloroethene	not established	<2.5	<0.50	<2.5	<2.5	<0.50	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<0.50	<2.5	<2.5	<1.0	<1.0	Not	<1.0
Ethylbenzene	2100	<5.0	<1.0	<5.0	<5.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	Sampled	<1.0
p-Isopropyltoluene	not established	<5.0	NR	<5.0	<5.0	NR	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<5.0	<1.0	<1.0	Location	<1.0
Toluene	5980	<5.0	<1.0	<5.0	<5.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	Dry	<1.0
trans-1,2-Dichloroethene	10000	<2.5	<0.50	<2.5	<2.5	<0.50	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<0.50	<2.5	<2.5	<1.0	<1.0		<1.0
Trichloroethene	30	<5.0	<1.0	<5.0	<5.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0
Vinyl Chloride	2.4	<5.0	<1.0	<2.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0		<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA	NA	NA	<2.0	NA	NA	NA	NA	NA	NA	<2.0	NA		NA

TABLE 3: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		**Manson Branch Seep West #2 (Seep #2)**														
Sample Location		**Seep Located 350 ft downstream of Hwy 24 on the west bank**														
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**6/7/2000**	**11/2/2000**	**1/15/2003**	**3/24/2004**	**6/23/2004**	**8/30/2004**	**11/17/2004**	**2/27/2008**	**4/21/2010**	**6/7/2011**	**1/17/2012**	**7/10/2012**	**8/7/2012**	**11/19/2012**	**1/8/2013**
Laboratory		**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**TestAmerica - Canton**
CONSTITUENT (µg/L)																
1,1,1-Trichloroethane	not established	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	16	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7100	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	**1.7**	<1.0	<1.0	**3.7**	**4.6**
1,1-Dichloroethane	not established	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	not established	<250	<250	<200	<250	<250	<250	<250	<250	<250	NA	<100	<100	<100	NA	<50
Chloroform	470	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	not established	**3.8**	**7.9**	<0.50	<5.0	<5.0	<5.0	<5.0	<2.5	<2.5	**4.4**	**5.7**	**4.0**	**8.2**	**23**	**21.0**
Ethylbenzene	2100	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	not established	<5.0	<5.0	NR	NR	NR	NR	NR	<5.0	<5.0	**4.5**	<1.0	<1.0	<1.0	**2.1**	<1.0
Toluene	5980	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**2.0**	<1.0	**33**	**26**	<1.0	<1.0
trans-1,2-Dichloroethene	10000	<2.5	<2.5	<0.50	<5.0	<5.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	30	<5.0	**5.4**	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	**7.4**	<1.0	**1.4**	**23**	**26**
Vinyl Chloride	2.4	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	NA	NA	<5.0	<5.0	NA

TABLE 3: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		**Seep A**							**Seep B**													
Sample Location		**Northeast CornerThermo King Eastern Parcel**							**Thermo King Eastern Parcel**													
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**1/15/2003**	**3/24/2004**	**6/23/2004**	**8/31/2004**	**11/17/2004**	**2/26/2008**	**4/21/2010**	**1/15/2003**	**3/24/2004**	**6/23/2004**	**8/30/2004**	**11/17/2004**	**2/27/2008**	**4/21/2010**	**6/3/2010**	**June 2011**	**1/17/2012**	**7/10/2012**	**8/7/2012**	**11/19/2012**	**1/8/2013**
Laboratory		**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**TestAmerica - Canton**
CONSTITUENT (µg/L)																						
1,1,1-Trichloroethane	not established	<1.0		<5.0	<5.0		<5.0		<1.0	<5.0	<5.0	<5.0	**10**	<5.0				<1.0			<1.0	<1.0
1,1,2-Trichloroethane	16	<1.0		<5.0	<5.0		<5.0		<1.0	<5.0	<5.0	<5.0	<8.4	<5.0				<1.0			<1.0	<1.0
1,1-Dichloroethene	7100	<1.0		<5.0	<5.0		<5.0		<1.0	<5.0	<5.0	<5.0	<8.4	<5.0				<1.0			<1.0	<1.0
1,1-Dichloroethane	not established	<1.0		<5.0	<5.0		<5.0		<1.0	<5.0	<5.0	<5.0	<8.4	<5.0				<1.0			<1.0	<1.0
1,4-Dioxane	not established	<200		<250	<250		<250		<200	<250	<250	<250	<420	<250				<100			NA	<50
Chloroform	470	<1.0		<5.0	<5.0		<5.0		<1.0	<5.0	<5.0	<5.0	<8.4	<5.0				<1.0			<1.0	<1.0
cis-1,2-Dichloroethene	not established	<0.50	DRY	<5.0	<5.0	DRY	<2.5	DRY	<0.50	<5.0	<5.0	<5.0	**16**	<2.5	DRY	DRY	DRY	<1.0	DRY	DRY	<1.0	<1.0
Ethylbenzene	2100	<1.0	Not Sampled	<5.0	<5.0	Not Sampled	<5.0	Not Sampled	<1.0	<5.0	<5.0	<5.0	<8.4	<5.0	Not Sampled	Not Sampled	Not Sampled	<1.0	Not Sampled	Not Sampled	<1.0	<1.0
p-Isopropyltoluene	not established	NR		NR	NR		<5.0		NR	NR	NR	NR	NR	<5.0				<1.0			<1.0	<1.0
Toluene	5980	<1.0		<5.0	<5.0		<5.0		<1.0	<5.0	<5.0	<5.0	<8.4	<5.0				<1.0			<1.0	<1.0
trans-1,2-Dichloroethene	10000	<0.50		<5.0	<5.0		<2.5		<0.50	<5.0	<5.0	<5.0	<8.4	<2.5				<1.0			<1.0	<1.0
Trichloroethene	30	<1.0		<5.0	<5.0		<5.0		<1.0	<5.0	<5.0	<5.0	**41**	<5.0				**2.9**			<1.0	<1.0
Vinyl Chloride	2.4	<1.0		<2.0	<2.0		<2.0		<1.0	<2.0	<2.0	<2.0	<3.3	<2.0				<1.0			<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA		NA	NA		NA		NA	NA	NA	NA	NA	NA				NA			<5.0	NA

TABLE 3: SUMMARY OF DETECTED CONSTITUENTS
IN SEEPS AND SURFACE WATER

Sample Identification		**Seep C**											
Sample Location		**Thermo King Eastern Parcel, down slope of the draw**											
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**1/15/2003**	**3/24/2004**	**6/23/2004**	**8/31/2004**	**11/17/2004**	**2/27/2008**	**4/21/2010**	**6/2/2010**	**6/7/2011**	**1/17/2012**	**7/10/2012 (not sampled at Seep C location)**	**8/7/2012**
Laboratory		**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**
CONSTITUENT (µg/L)													
1,1,1-Trichloroethane	not established	**120**	<140	<5.0	**380**	**380**	**49**	**28**	NA	**32**	**32**	<1.0	Not
1,1,2-Trichloroethane	16	<25	<140	<5.0	<310	<190	<5.0	<12	NA	**1.0**	<1.0	<1.0	Sampled
1,1-Dichloroethene	7100	**110**	<140	<5.0	<310	**240**	**99**	**64**	NA	**87**	**140**	**1.8**	Seep C
1,1-Dichloroethane	not established	<25	<140	<5.0	<310	<190	<5.0	<12	NA	<1.0	**4.0**	**7.3**	covered
1,4-Dioxane	not established	<1200	<7100	<250	<16000	<9600	<500	<620	NA	NA	<100	<100	with
Chloroform	470	<25	<140	<5.0	<310	<190	<5.0	<12	NA	**2.3**	**2.5**	<1.0	rip-rap
cis-1,2-Dichloroethene	not established	**13**	<140	<5.0	<310	<190	**11**	**12**	NA	**19**	**130**	**32**	
Ethylbenzene	2100	<25	<140	<5.0	<310	<190	<10	<12	NA	<1.0	<1.0	**25**	
p-Isopropyltoluene	not established	NR	NR	NR	NR	NR	<10	<12	NA	<1.0	<1.0	<1.0	
Toluene	5980	<25	<140	<5.0	<310	<190	<10	<12	NA	<1.0	<1.0	**180**	
trans-1,2-Dichloroethene	10000	<12	<140	<5.0	<310	<190	<5.0	<12	NA	<1.0	<1.0	<1.0	
Trichloroethene	30	**840**	**720**	<5.0	**1300**	**1000**	**670**	**500**	NA	**530**	**880**	<1.0	
Vinyl Chloride	2.4	<25	<57	<2.0	<120	<77	<2.0	<12	NA	<1.0	**11**	**14**	
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA	NA	NA	<5.0	<20	NA	NA	

TABLE 3: SUMMARY OF DETECTED CONSTITUENTS
IN SEEPS AND SURFACE WATER

Sample Identification		**Seep D**							**Seep G**												
Sample Location		**Thermo King Eastern Parcel**							**Thermo King Eastern Parcel**												
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**1/15/2003**	**3/24/2004**	**6/23/2004**	**8/31/2004**	**11/17/2004**	**2/27/2008**	**4/21/2010**	**1/15/2003**	**3/24/2004**	**6/23/2004**	**8/31/2004**	**11/17/2004**	**2/26/2008**	**4/21/2010**	**June 2011**	**1/17/2012**	**7/10/2012**	**8/7/2012**	**11/19/2012**	**1/8/2013**
Laboratory		**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**TestAmerica - Canton**
CONSTITUENT (µg/L)																					
1,1,1-Trichloroethane	not established	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0		<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	16	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0		<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7100	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0		**1.9**	**5.2**	<1.0	<1.0	**2.2**
1,1-Dichloroethane	not established	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0		<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	not established	<200	<250	<250	<250	<250	<250	<250	<200	<250	<250	<360	<250	<250	<250		<100	<100	<100	NA	<50
Chloroform	470	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0		<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	not established	<0.50	<5.0	<5.0	<5.0	<5.0	<2.5	<2.5	**0.73**	**13**	**9.3**	<7.2	<5.0	<2.5	**7.7**	DRY	**7.4**	**49**	**6.2**	**7.6**	**11**
Ethylbenzene	2100	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0	Not Sampled	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	not established	NR	NR	NR	NR	NR	<5.0	<5.0	NR	NR	NR	NR	NR	<5.0	<5.0		<1.0	<1.0	<1.0	**2.6**	<1.0
Toluene	5980	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0		<1.0	**6.4**	**2.4**	<1.0	<1.0
trans-1,2-Dichloroethene	10000	<0.50	<5.0	<5.0	<5.0	<5.0	<2.5	<2.5	<0.50	<5.0	<5.0	<7.2	<5.0	<2.5	<2.5		<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	30	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	**7.8**		**2.6**	<1.0	<1.0	**3.8**	**4.8**
Vinyl Chloride	2.4	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<2.9	<2.0	<2.0	<2.0		<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	<5.0	<5.0	NA

TABLE 3: SUMMARY OF DETECTED CONSTITUENTS
IN SEEPS AND SURFACE WATER

Sample Identification		**Seep H**													
Sample Location		**Thermo King Eastern Parcel**													
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**1/15/2003**	**3/24/2004**	**6/23/2004**	**8/31/2004**	**11/17/2004**	**2/26/2008**	**4/21/2010**	**6/3/2010**	**June 2011**	**1/17/2012**	**7/10/2012**	**8/7/2012**	**11/19/2012**	**1/8/2013**
Laboratory		**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**TestAmerica - Canton**
CONSTITUENT (µg/L)															
1,1,1-Trichloroethane	not established	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	<5.0	<2.0		<1.0	<1.0	**15**	**20**	<20
1,1,2-Trichloroethane	16	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	<5.0	<2.0		<1.0	<1.0	<1.0	<1.0	<20
1,1-Dichloroethene	7100	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	**6.0**	**12**		**2.3**	**6.7**	**69**	**140**	**84**
1,1-Dichloroethane	not established	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	<5.0	<2.0		<1.0	**2.0**	**1.1**	<1.0	<20
1,4-Dioxane	not established	<200	<250	<420	<250	<250	<250	<250	<100		<100	<100	<100	NA	<1000
Chloroform	470	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	<5.0	<2.0		<1.0	<1.0	**2.6**	**2.3**	<20
cis-1,2-Dichloroethene	not established	**6.9**	**12**	**30**	**13**	**27**	<2.5	**26**	**63**	DRY	**16**	**110**	**120**	**64**	**47**
Ethylbenzene	2100	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	<5.0	<2.0	Not Sampled	<1.0	<1.0	<1.0	<1.0	<20
p-Isopropyltoluene	not established	NR	NR	NR	NR	NR	<5.0	<5.0	<2.0		<1.0	<1.0	<1.0	<1.0	<20
Toluene	5980	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	<5.0	<2.0		<1.0	**170**	**19**	**1.6**	<20
trans-1,2-Dichloroethene	10000	<0.50	<5.0	<8.4	<5.0	<5.0	<2.5	<2.5	<2.0		<1.0	**3.8**	<1.0	<1.0	<20
Trichloroethene	30	**24**	**15**	<8.4	<5.0	**7.1**	**5.1**	**38**	**41**		**2.0**	<1.0	**800**	**550**	**610**
Vinyl Chloride	2.4	<1.0	<2.0	<3.3	<2.0	<2.0	<2.0	<2.0	<2.0		<1.0	**31**	<1.0	<1.0	<20
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	<5.0	<5.0	NA

TABLE 3: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		**Seep I**												
Sample Location		**Thermo King Eastern Parcel**												
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**1/15/2003**	**3/24/2004**	**6/23/2004**	**8/30-31/2004**	**11/17/2004**	**2/27/2008**	**4/22/2010**	**6/7/2011**	**1/17/2012**	**7/10/2012**	**8/7/2012**	**11/19/2012**	**1/8/2013**
Laboratory		**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - Tampa**	**AES-Atlanta**	**AES-Atlanta**		**AES-Atlanta**	**TestAmerica - Canton**
CONSTITUENT (µg/L)														
1,1,1-Trichloroethane	not established	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	<1.0	<1.0	**9.5**		<1.0	<1.0
1,1,2-Trichloroethane	16	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	<1.0	<1.0	<1.0		<1.0	<1.0
1,1-Dichloroethene	7100	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	**9.3**	<1.0	**60**		<1.0	<1.0
1,1-Dichloroethane	not established	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	**1.9**	<1.0	<1.0		<1.0	<1.0
1,4-Dioxane	not established	<200	<250	<250		<250	<250	<250	NA	<100	<100		NA	<50
Chloroform	470	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	<1.0	<1.0	**2.2**		<1.0	<1.0
cis-1,2-Dichloroethene	not established	<0.50	<5.0	<5.0	DRY	<5.0	<2.5	<2.5	**64**	<1.0	**68**	DRY	<1.0	<1.0
Ethylbenzene	2100	<1.0	<5.0	<5.0	not sampled	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	not sampled	<1.0	<1.0
p-Isopropyltoluene	not established	NR	NR	NR		NR	<5.0	<5.0	**1.4**	<1.0	<1.0		<1.0	<1.0
Toluene	5980	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	**2.3**	<1.0	**17**		<1.0	<1.0
trans-1,2-Dichloroethene	10000	<0.50	<5.0	<5.0		<5.0	<2.5	<2.5	<1.0	<1.0	<1.0		<1.0	<1.0
Trichloroethene	30	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	**2.5**	<1.0	**380**		<1.0	<1.0
Vinyl Chloride	2.4	<1.0	<2.0	<2.0		<2.0	<2.0	<2.0	<1.0	<1.0	<1.0		<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA		NA	NA	NA	<2.0	NA	NA		<5.0	NA

TABLE 3: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		**Seep J**							**Seep K**					
Sample Location		**Thermo King Eastern Parcel**							**Northeast CornerThermo King Eastern Parcel**					
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**5/14/2003**	**3/24/2004**	**6/23/2004**	**8/31/2004**	**11/17/2004**	**2/26/2008**	**4/22/2010**	**3/24/2004**	**6/24/2004**	**8/31/2004**	**11/17/2004**	**2/26/2008**	**4/22/2010**
Laboratory		**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**
CONSTITUENT (µg/L)														
1,1,1-Trichloroethane	not established	<25	<5.0	<12.0	<33	<25	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	16	<25	<5.0	<12.0	<33	<25	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
1,1-Dichloroethene	7100	<25	<5.0	<12.0	<33	<25	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
1,1-Dichloroethane	not established	<25	<5.0	<12.0	<33	<25	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
1,4-Dioxane	not established	<1000	<250	<620	<1700	<1200	<250	<250	<250	<250	<1000	<250	<250	<250
Chloroform	470	<25	<5.0	<12.0	<33	<25	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	not established	**910**	**84**	**66**	**190**	**110**	<2.5	<2.5	**10**	<5.0	**85**	<5.0	**12**	**5.3**
Ethylbenzene	2100	<25	<5.0	<12.0	<33	<25	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
p-Isopropyltoluene	not established	NR	NR	NR	NR	NR	<5.0	<5.0	NR	NR	NR	NR	<5.0	<5.0
Toluene	5980	**280**	<5.0	<12.0	<33	<25	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	10000	**13**	<5.0	<12.0	<33	<25	<2.5	<2.5	<5.0	<5.0	<20	<5.0	<2.5	<2.5
Trichloroethene	30	<25	<5.0	<12.0	<33	<25	<5.0	<5.0	<5.0	<5.0	<20	<5.0	**13**	**5.8**
Vinyl Chloride	2.4	<25	**26**	<5.0	<13	**11**	<2.0	<2.0	<2.0	<2.0	<8	<2.0	<2.0	<2.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		**Seep L**												
Sample Location		**Northeast CornerThermo King Eastern Parcel**												
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**3/24/2004**	**6/24/2004**	**8/31/2004**	**11/17/2004**	**2/27/2008**	**4/21/2010**	**6/3/2010**	**June 2011**	**1/17/2012**	**7/10/2012**	**8/7/2012**	**11/19/2012**	**1/8/2013**
Laboratory		**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - North Canton**	**TestAmerica - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**TestAmerica - Canton**
CONSTITUENT (µg/L)														
1,1,1-Trichloroethane	not established	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0			<1.0	<1.0
1,1,2-Trichloroethane	16	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0			<1.0	<1.0
1,1-Dichloroethene	7100	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0			<1.0	<1.0
1,1-Dichloroethane	not established	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0			<1.0	<1.0
1,4-Dioxane	not established	<250	<250	<250	<250	<250		<50		<100			NA	<50
Chloroform	470	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0			<1.0	<1.0
cis-1,2-Dichloroethene	not established	**5.4**	<5.0	<5.0	<5.0	<2.5	DRY	<1.0	DRY	<1.0	DRY	DRY	**2.0**	**5.9**
Ethylbenzene	2100	<5.0	<5.0	<5.0	<5.0	<5.0	not sampled	<1.0	not sampled	<1.0	not sampled	not sampled	<1.0	<1.0
p-Isopropyltoluene	not established	NR	NR	NR	NR	<5.0		<1.0		<1.0			<1.0	<1.0
Toluene	5980	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0			<1.0	<1.0
trans-1,2-Dichloroethene	10000	<5.0	<5.0	<5.0	<5.0	<2.5		<1.0		<1.0			<1.0	<1.0
Trichloroethene	30	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0			<1.0	<1.0
Vinyl Chloride	2.4	<2.0	<2.0	<2.0	<2.0	<2.0		<1.0		<1.0			<1.0	**1.3**
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA		NA		NA			<5.0	NA

Notes:

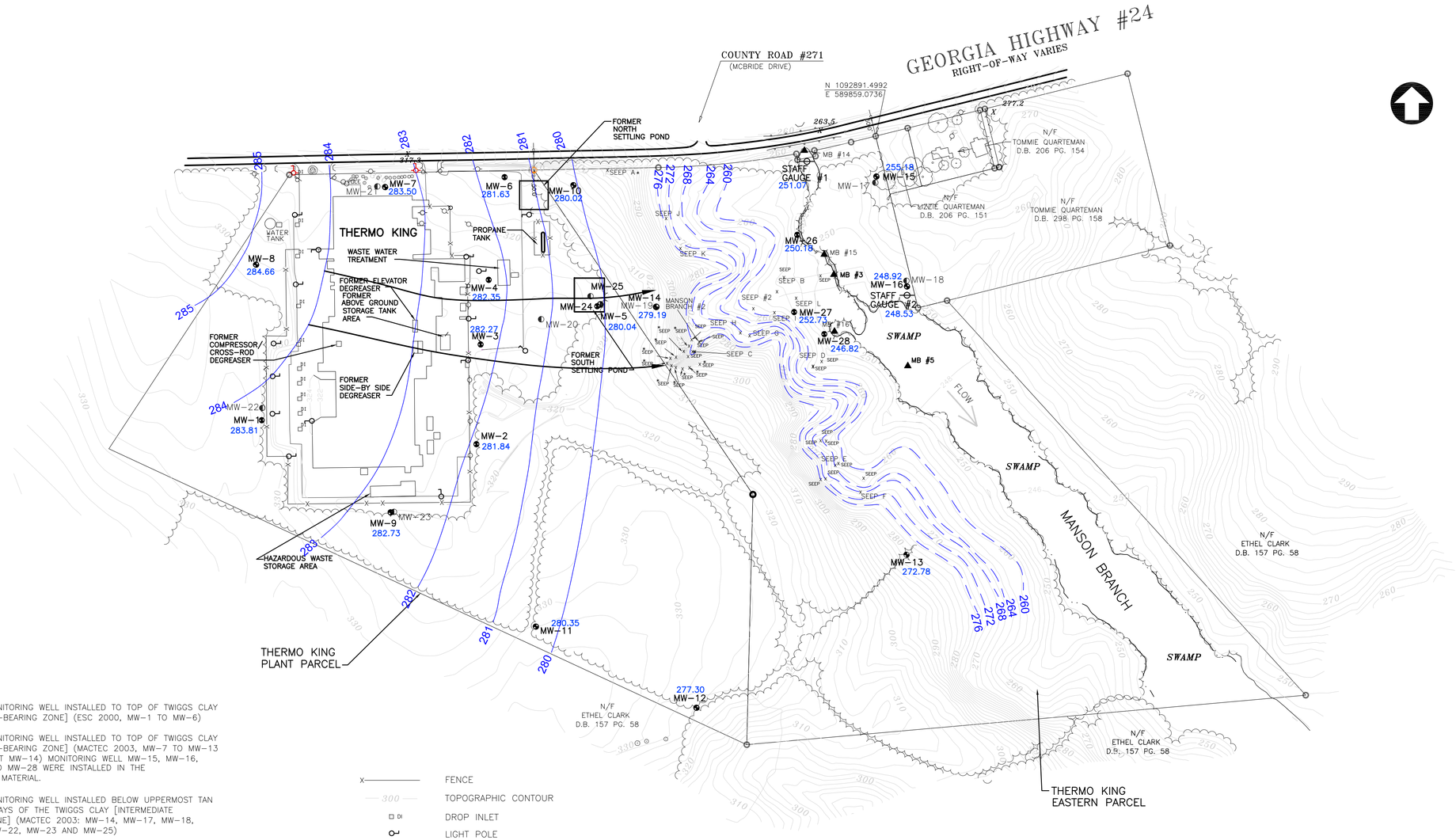
µg/L	micrograms per liter
Hwy	Highway
NA	Sample not analyzed for this constituent
E	Estimated; result exceeds calibration range
(a)	Georgia Instream Surface Water GADNR February 2009 Rules and Regulations for Water Quality Control (ISWQC)
	Exceeds Georgia ISWQC
	BOLD Detected Concentration

Prepared by/Date: DP 02/07/13
Checked by/Date: MHA 2/7/13

TABLE 4: SUMMARY OF HOURS INVOICED AND DESCRIPTION OF SERVICES FOR DOCUMENTATION OF PE DIRECT OVERSIGHT FOR VOLUNTARY REMEDIATION PROGRAM ACTIVITIES

	Hours Invoiced	Billing Period	Invoice #	Description of Services
Gregory J. Wrenn, P.E.	6	8/25/2012-9/21/2012	H02100598	Time and expenses in evaluation of field and laboratory data to investigate the source of toluene in July and August 2012 seep water and soil samples. The preparation of calculations, figures, and responses for the EPD's July 16, 2012 comment letter on VRP status reports 1 and 2. Updating fate and transport model with 2012 data. Time and expenses related to the preparation of tables and figures, data evaluation, and the preparation of the VRP Status Report No. 3 document. Report was submitted to EPD on September 10, 2012. Time associated with procurement of rental equipment used in the construction of the rip-rap blanket.
Total Project Hours for Billing Period	150			
Gregory J. Wrenn, P.E.	0	9/22/2012-10/19/2012	H02100674	General project management and invoicing and review of data from August seep sampling.
Total Project Hours for Billing Period	4			
Gregory J. Wrenn, P.E.	2	10/20/2012-11/23/2012	H02100827	Time spent coordinating the field sampling team and laboratory for November 19 seep sampling event. Field time for travel to and from site and the collection of seep samples as a follow-up to the toluene source investigation. General project management and communications with Thermo King and Ingersoll Rand. Coordinate and management of rip-rap blanket repairs. Field time related to the repairing of erosion problems associated with the rip-rap construction area.
Total Project Hours for Billing Period	158.4			
Gregory J. Wrenn, P.E.	4.5	11/24/2012-2/01/2013	H02100992	Time spent coordinating the field sampling team and laboratory for the January 7-11, 2013 groundwater and seep sampling event. Field time related to travel and the collection of semi-annual VRP groundwater, seep, and surface water samples. General project management and communications with Thermo King and Ingersoll Rand. Communications with EPD regarding the close out of wastewater treatment plant discharge permit. Field time and expenses related to the repairing of erosion problems associated with the rip-rap construction area. Data evaluation and preparation of VRP Status Report No. 4.
Total Project Hours for Billing Period	111.9			
Gregory J. Wrenn, P.E.	1	2/02/2013-2/15/2013	H02101062	Time spent for data evaluation and preparation of the VRP Status Report No. 4. and consultation on close-out of wastewater treatment permit.
Total Project Hours for Billing Period	25.5			
Total Hours for PE Gregory J. Wrenn	**13.5**			
Total Project Hours	**449.8**			

FIGURES



LEGEND

MW-1	GROUND-WATER MONITORING WELL INSTALLED TO TOP OF TWIGGS CLAY [UPPERMOST WATER-BEARING ZONE] (ESC 2000, MW-1 TO MW-6)
MW-7	GROUND-WATER MONITORING WELL INSTALLED TO TOP OF TWIGGS CLAY [UPPERMOST WATER-BEARING ZONE] (MACTEC 2003, MW-7 TO MW-13 AND MW-19, EXCEPT MW-14) MONITORING WELL MW-15, MW-16, MW-26, MW-27 AND MW-28 WERE INSTALLED IN THE COLLUVIAL/ALLUVIAL MATERIAL.
MW-14	GROUND-WATER MONITORING WELL INSTALLED BELOW UPPERMOST TAN AND BLUE-GRAY CLAYS OF THE TWIGGS CLAY [INTERMEDIATE WATER-BEARING ZONE] (MACTEC 2003: MW-14, MW-17, MW-18, MW-20, MW-21, MW-22, MW-23 AND MW-25)
MW-24	GROUND-WATER MONITORING WELL INSTALLED IN LOWER WATER BEARING ZONE.
SEEP A 299.0	WATER SEEP WITH ELEVATION SAMPLED FOR SURFACE WATER FOR LABORATORY ANALYSIS (MACTEC 2003: Seeps A through Manson Branch #2, and Seep #2)
X SEEP 252.9	WATER SEEP WITH ELEVATION
MB #14	MANSON BRANCH SURFACE WATER SAMPLING LOCATION (MACTEC 2003: MB#14, MB#15, MB#16)
	STAFF GAUGE FOR MEASURING SURFACE WATER ELEVATION
	BUSH
	BUSHLINE
	TREE
	TREELINE
	HEDGE
	STREAM
X	FENCE
300	TOPOGRAPHIC CONTOUR
DI	DROP INLET
	LIGHT POLE
	PROPERTY BOUNDARY
286.90	GROUND-WATER ELEVATION IN FEET, NAVD 1988 (JULY 9, 2012)
284	POTENTIOMETRIC SURFACE CONTOUR IN FEET, NAVD 1988 IN UPPERMOST WATER-BEARING ZONE
	INTERPRETED DIRECTION OF GROUND-WATER FLOW IN UPPERMOST WATER-BEARING ZONE
X	SEEPS NOT USED IN CONTORING
*	GROUNDWATER ELEVATIONS NOT USED IN CONTOURING WELLS MW-15, MW-16, MW-26, MW-27, AND MW-28 ARE SCREENED IN COLLUVIAL/ALLUVIAL MATERIAL ALONG MANSON BRANCH AND NOT THE UPPERMOST WATER BEARING ZONE.

SOURCE: TOPOGRAPHIC AND PROPERTY BOUNDARY SURVEYS BY SURVEYING SOLUTIONS, INC., JULY 2002 AND HOFFMAN & COMPANY INC., USING FEBRUARY 2002 AERIAL PHOTOGRAPH. AND GROUND SURVEYING. 2000 CSR SAMPLING LOCATIONS SURVEYED BY MACTEC ENGINEERING AND CONSULTING, INC. SEPTEMBER 2003 AND DECEMBER 2004. LOCATIONS OF FORMER NORTH AND SOUTH SETTLING PONDS APPROXIMATED FROM HISTORICAL AERIAL PHOTOGRAPHS.

SCALE IN FEET
0 200 400

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DESIGNED M. ANDREWS
DRAWN T. GLADSTONE
CHECKED R. QUINN
IN CHARGE D. ALCOTT
DATE 2/5/2013

THERMO KING CORPORATION
LOUISVILLE, GEORGIA

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

POTENTIOMETRIC SURFACE MAP FOR UPPERMOST WATER-BEARING ZONE JANUARY 2013

FIGURE: 1

SCALE AS SHOWN
CONTRACT 6122-09-0322
DWG. NO. REV PAGE NO

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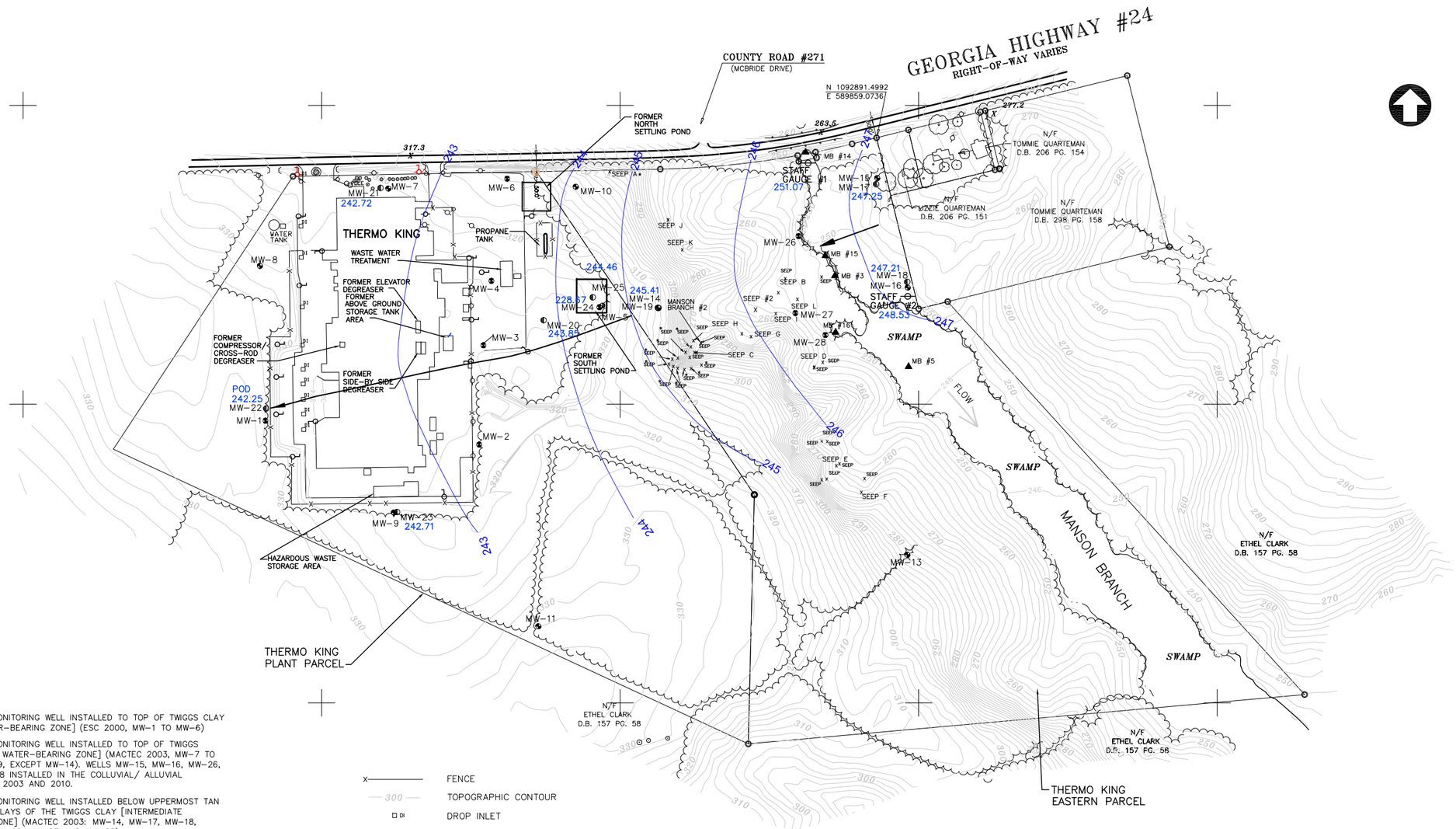

LEGEND

MW-1	GROUND-WATER MONITORING WELL INSTALLED TO TOP OF TWIGGS CLAY [UPPERMOST WATER-BEARING ZONE] (ESC 2000, MW-1 TO MW-6)
MW-7	GROUND-WATER MONITORING WELL INSTALLED TO TOP OF TWIGGS CLAY [UPPERMOST WATER-BEARING ZONE] (MACTEC 2003, MW-7 TO MW-13 AND MW-19, EXCEPT MW-14). WELLS MW-15, MW-16, MW-26, MW-27 AND MW-28 INSTALLED IN THE COLLUVIAL/ ALLUVIAL MATERIAL, MACTEC 2003 AND 2010.
MW-14	GROUND-WATER MONITORING WELL INSTALLED BELOW UPPERMOST TAN AND BLUE-GRAY CLAYS OF THE TWIGGS CLAY [INTERMEDIATE WATER-BEARING ZONE] (MACTEC 2003: MW-14, MW-17, MW-18, MW-20, MW-21, MW-22, MW-23 AND MW-25)
MW-24	GROUND-WATER MONITORING WELL INSTALLED IN LOWER WATER BEARING ZONE.
SEEP A 295.0	WATER SEEP WITH ELEVATION SAMPLED FOR SURFACE WATER FOR LABORATORY ANALYSIS (MACTEC 2003: Seeps A through J, Manson Branch #2, and Seep #2)
X SEEP 274.0	WATER SEEP WITH ELEVATION
MB #14	MANSON BRANCH SURFACE WATER SAMPLING LOCATION (MACTEC 2003: MB#14, MB#15, MB#16)
	STAFF GAUGE FOR MEASURING SURFACE WATER ELEVATION
	BUSH
	BUSHLINE
	TREE
	TREELINE
	HEDGE
	STREAM
	FENCE
300	TOPOGRAPHIC CONTOUR
DI	DROP INLET
	LIGHT POLE
	PROPERTY BOUNDARY
245.96	GROUND-WATER ELEVATION IN FEET, NAVD 1988 (JULY 9, 2012)
284	POTENTIOMETRIC SURFACE CONTOUR IN FEET, NAVD 1988 IN INTERMEDIATE WATER-BEARING ZONE
	INTERPRETED DIRECTION OF GROUND-WATER FLOW IN INTERMEDIATE WATER-BEARING ZONE
x	SEEPS NOT USED IN CONTORING
POD	POINT OF DEMONSTRATION WELL

NOTE: MW-24 NOT USED IN CONTOURING.

SOURCE: TOPOGRAPHIC AND PROPERTY BOUNDARY SURVEYS BY SURVEYING SOLUTIONS, INC., JULY 2002 AND HOFFMAN & COMPANY INC., USING FEBRUARY 2002 AERIAL PHOTOGRAPH. AND GROUND SURVEYING. 2000 CSR SAMPLING LOCATIONS SURVEYED BY MACTEC ENGINEERING AND CONSULTING, INC. SEPTEMBER 2003. DECEMBER 2004 LOCATIONS OF FORMER NORTH AND SOUTH SETTLING PONDS APPROXIMATED FROM HISTORICAL AERIAL PHOTOGRAPHS.

SCALE IN FEET
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DESIGNED M. ANDREWS
DRAWN T. GLADSTONE
CHECKED R. QUINN
IN CHARGE D. ALCOTT
DATE 2/5/2013

THERMO KING CORPORATION
LOUISVILLE, GEORGIA

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

POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE WATER-BEARING ZONE JANUARY 2013

FIGURE: 2

SCALE AS SHOWN
CONTRACT 6122-09-0322
DWG. NO. REV PAGE NO

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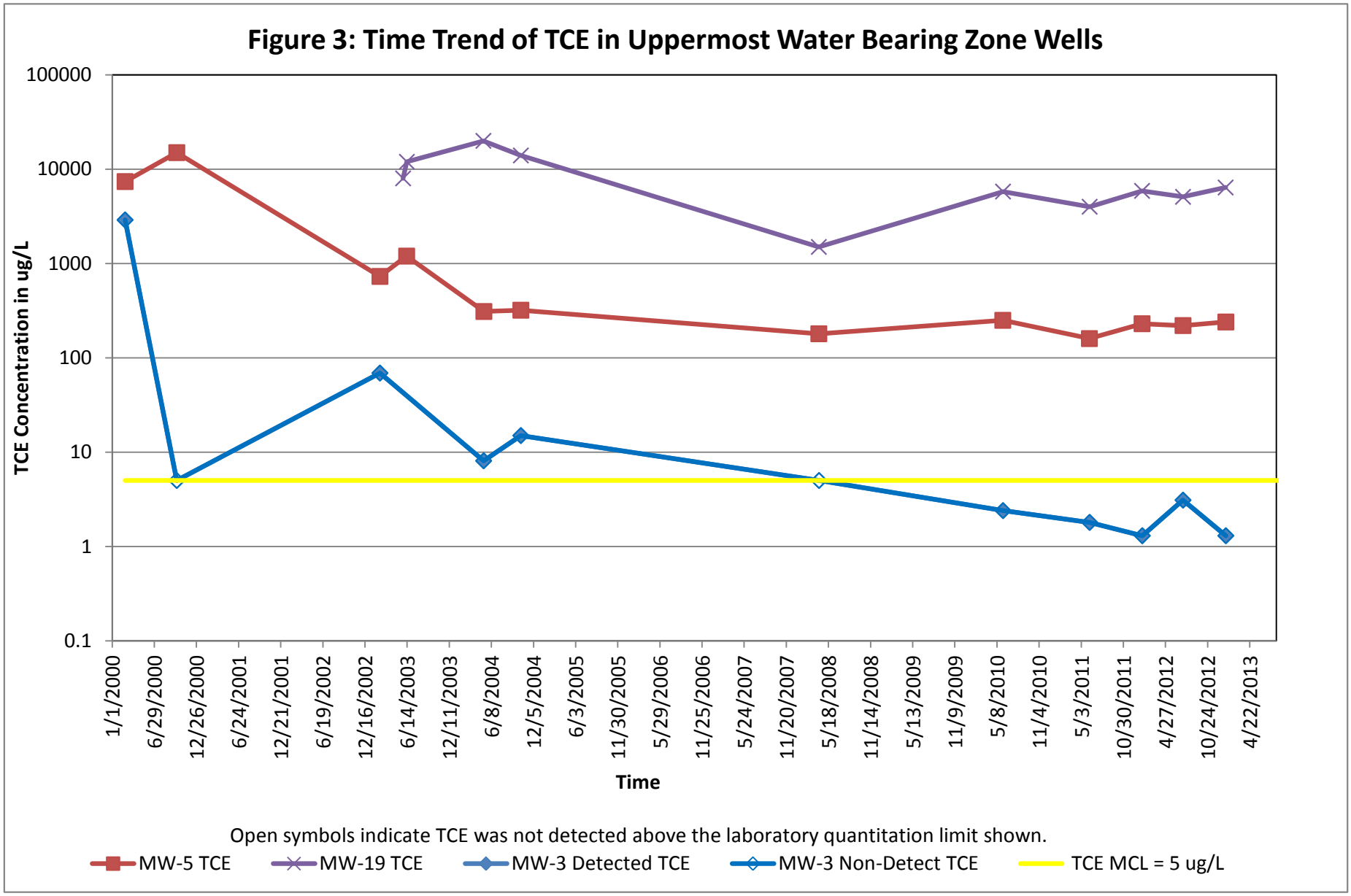


Figure 3: Time Trend of TCE in Uppermost Water Bearing Zone Wells
TCE Concentration in ug/L
100000
10000
1000
100
10
1
0.1
1/1/2000
6/29/2000
12/26/2000
6/24/2001
12/21/2001
6/19/2002
12/16/2002
6/14/2003
12/11/2003
6/8/2004
12/5/2004
6/3/2005
11/30/2005
5/29/2006
11/25/2006
5/24/2007
11/20/2007
5/18/2008
11/14/2008
5/13/2009
11/9/2009
5/8/2010
11/4/2010
5/3/2011
10/30/2011
4/27/2012
10/24/2012
4/22/2013
Time
Open symbols indicate TCE was not detected above the laboratory quantitation limit shown.
MW-5 TCE
MW-19 TCE
MW-3 Detected TCE
MW-3 Non-Detect TCE
TCE MCL = 5 ug/L

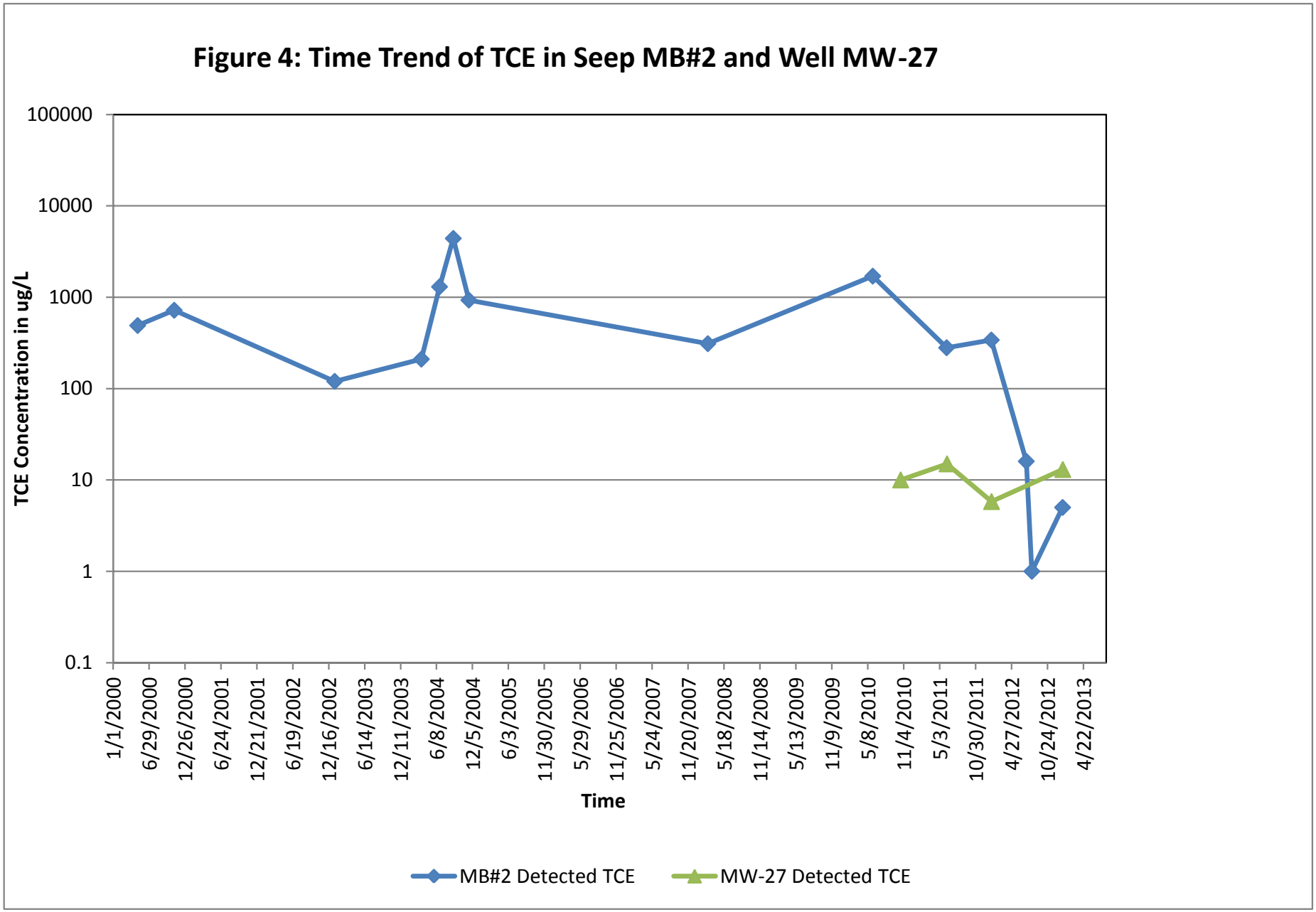


Figure 4: Time Trend of TCE in Seep MB#2 and Well MW-27
TCE Concentration in ug/L
100000
10000
1000
100
10
1
0.1
1/1/2000
6/29/2000
12/26/2000
6/24/2001
12/21/2001
6/19/2002
12/16/2002
6/14/2003
12/11/2003
6/8/2004
12/5/2004
6/3/2005
11/30/2005
5/29/2006
11/25/2006
5/24/2007
11/20/2007
5/18/2008
11/14/2008
5/13/2009
11/9/2009
5/8/2010
11/4/2010
5/3/2011
10/30/2011
4/27/2012
10/24/2012
4/22/2013
Time
MB#2 Detected TCE
MW-27 Detected TCE

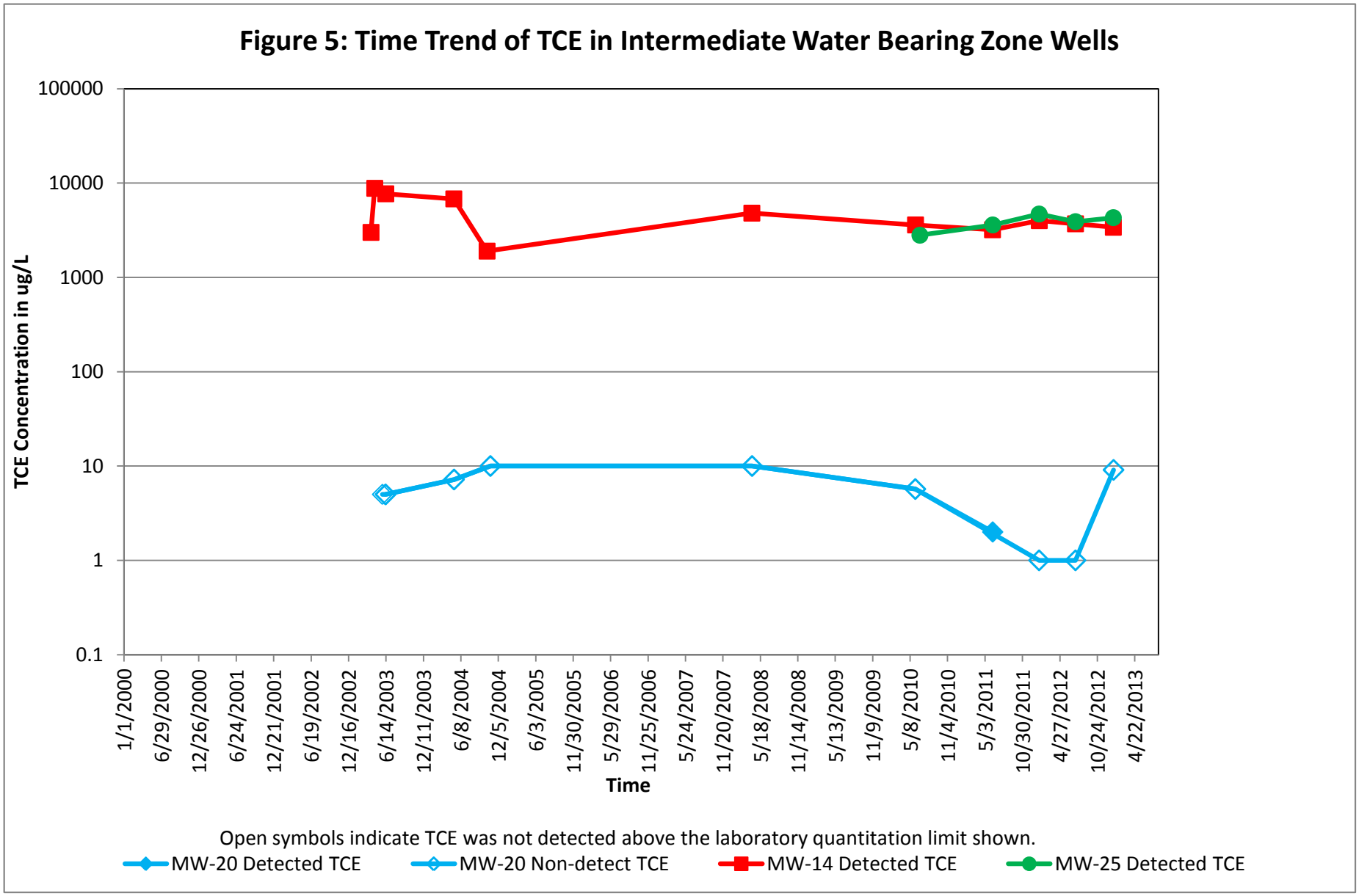
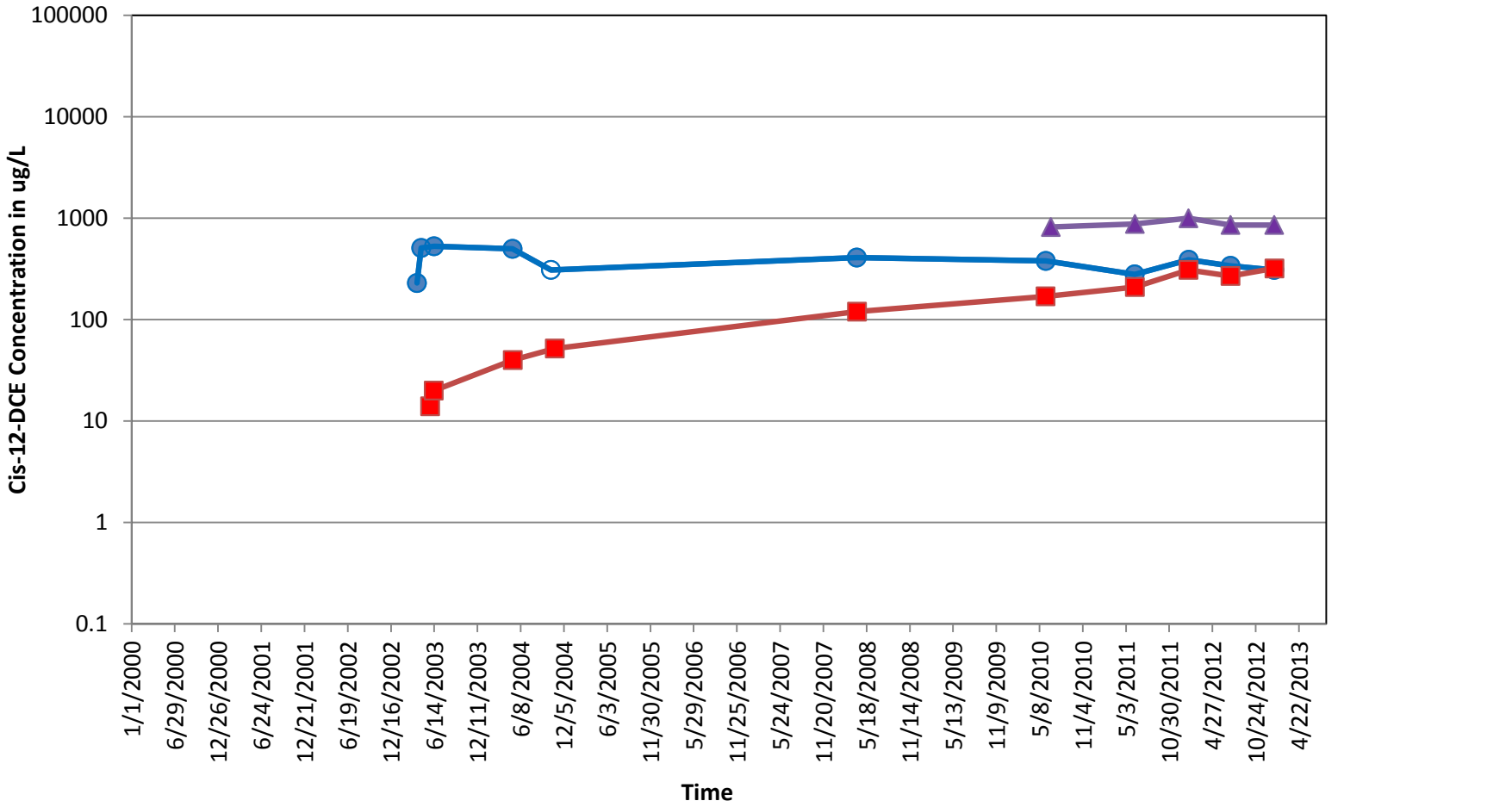


Figure 5: Time Trend of TCE in Intermediate Water Bearing Zone Wells
TCE Concentration in ug/L
100000
10000
1000
100
10
1
0.1
1/1/2000
6/29/2000
12/26/2000
6/24/2001
12/21/2001
6/19/2002
12/16/2002
6/14/2003
12/11/2003
6/8/2004
12/5/2004
6/3/2005
11/30/2005
5/29/2006
11/25/2006
5/24/2007
11/20/2007
5/18/2008
11/14/2008
5/13/2009
11/9/2009
5/8/2010
11/4/2010
5/3/2011
10/30/2011
4/27/2012
10/24/2012
4/22/2013
Time
Open symbols indicate TCE was not detected above the laboratory quantitation limit shown.
MW-20 Detected TCE
MW-20 Non-detect TCE
MW-14 Detected TCE
MW-25 Detected TCE

Figure 6: Time Trend of Cis-1,2-DCE in Intermediate Water Bearing Zone Wells



Open symbols indicate DCE was not detected above the laboratory quantitation limit shown.

MW-14 Detected c12DCE | MW-14 Non-detect c12DCE | MW-20 Detected c12DCE | MW-25 Detected c12DCE

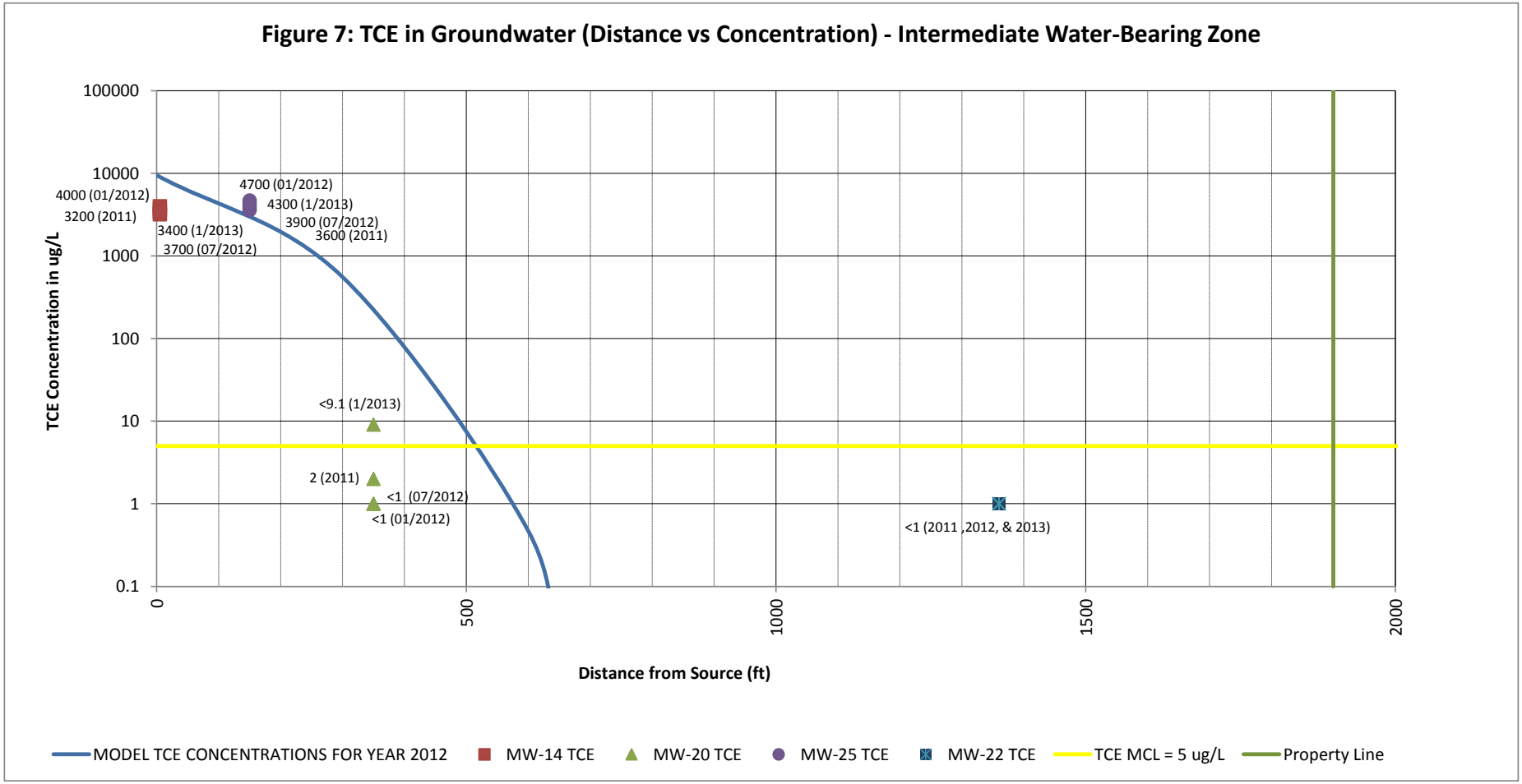
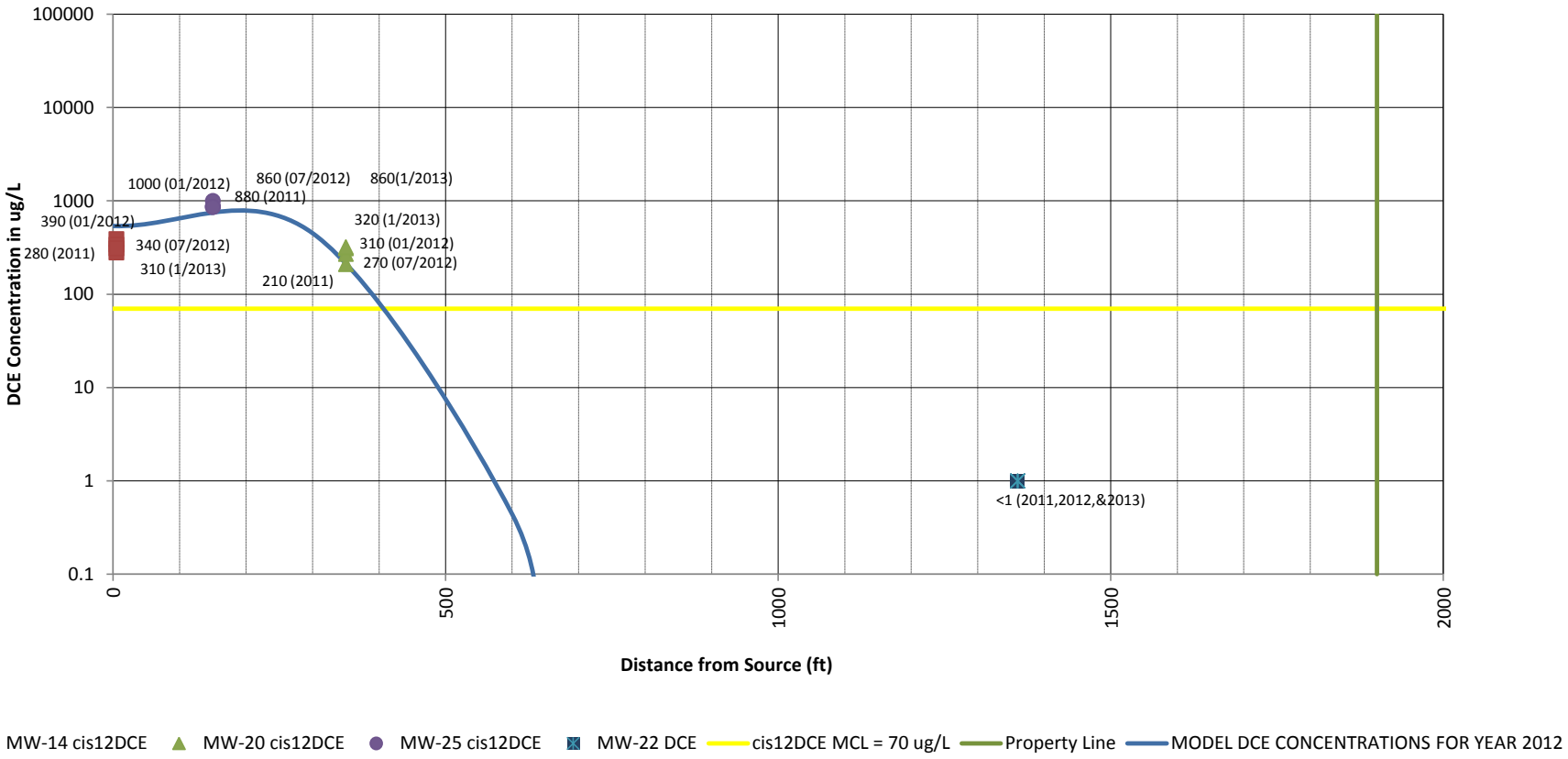


Figure 7: TCE in Groundwater (Distance vs Concentration) - Intermediate Water-Bearing Zone
TCE Concentration in ug/L
100000
10000
1000
100
10
1
0.1
0
500
1000
1500
2000
Distance from Source (ft)
4000 (01/2012)
3200 (2011)
3400 (1/2013)
3700 (07/2012)
4700 (01/2012)
4300 (1/2013)
3900 (07/2012)
3600 (2011)
<9.1 (1/2013)
2 (2011)
<1 (07/2012)
<1 (01/2012)
<1 (2011 ,2012, & 2013)
MODEL TCE CONCENTRATIONS FOR YEAR 2012
MW-14 TCE
MW-20 TCE
MW-25 TCE
MW-22 TCE
TCE MCL = 5 ug/L
Property Line

Figure 8: Cis-1,2-DCE in Groundwater (Distance vs Concentration) - Intermediate Water-Bearing Zone



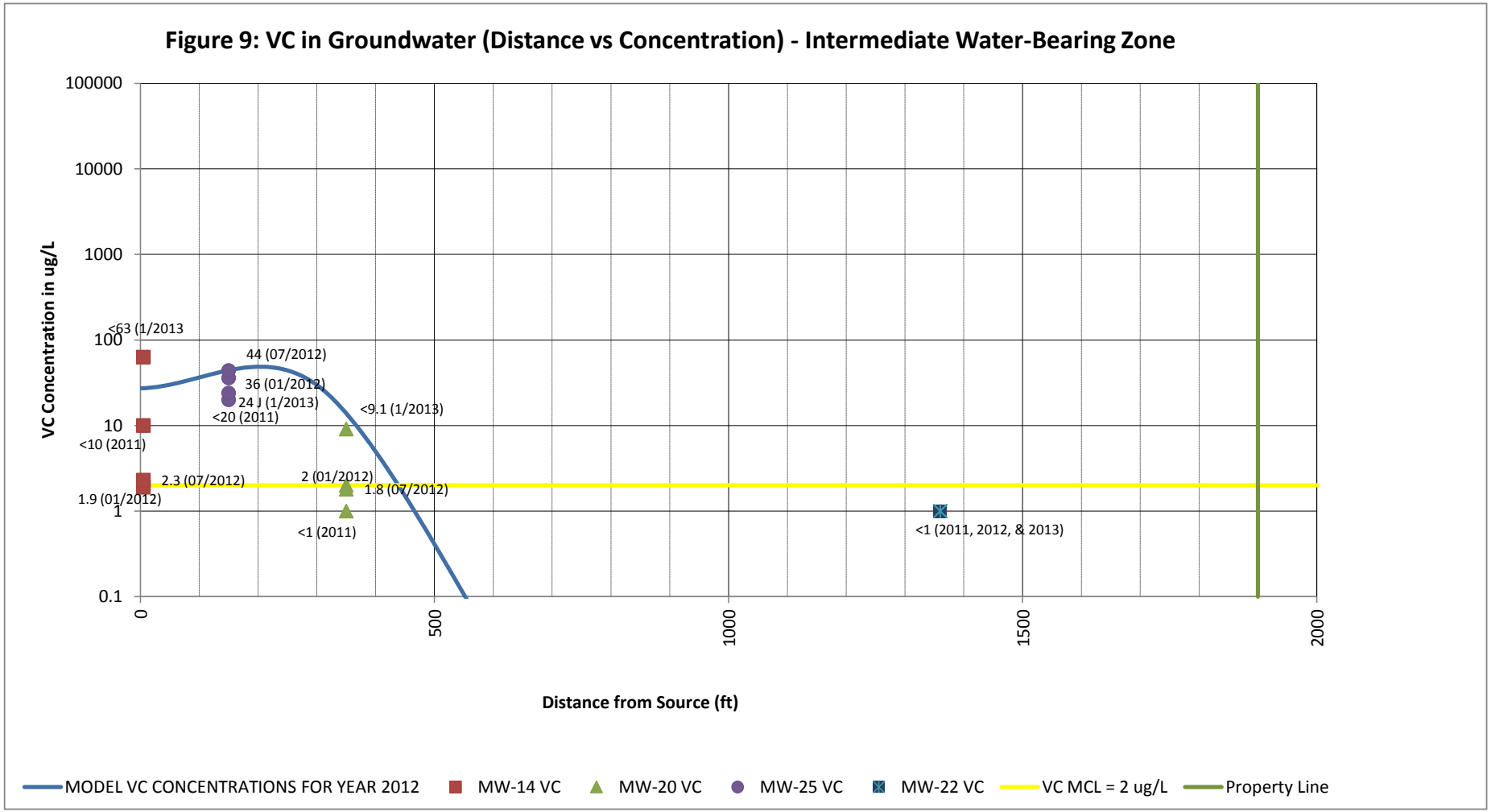
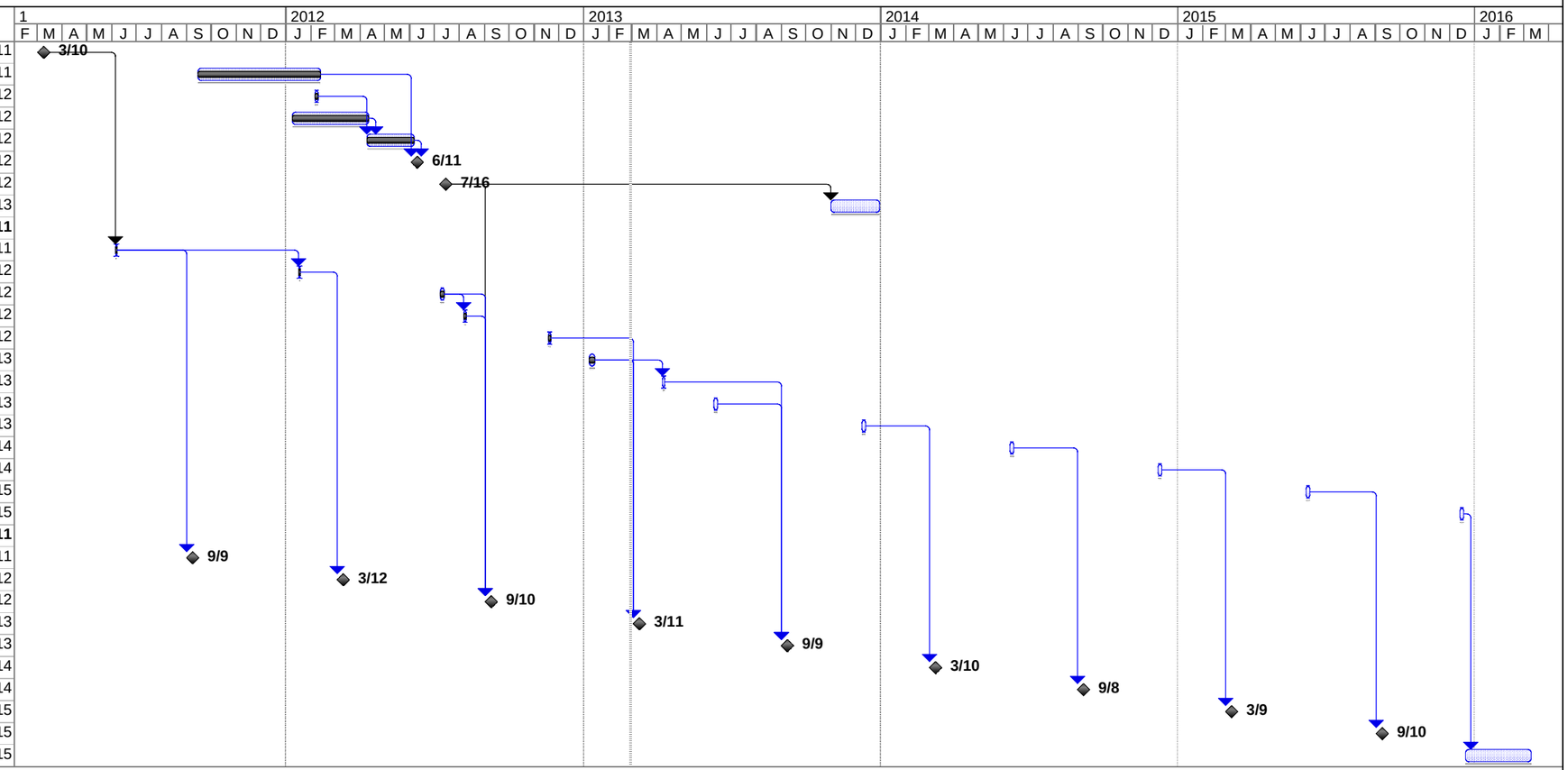


Figure 9: VC in Groundwater (Distance vs Concentration) - Intermediate Water-Bearing Zone
VC Concentration in ug/L
100000
10000
1000
100
10
1
0.1
<63 (1/2013
44 (07/2012)
36 (01/2012)
24 J (1/2013)
<20 (2011)
<9.1 (1/2013)
<10 (2011)
2.3 (07/2012)
2 (01/2012)
1.8 (07/2012)
1.9 (01/2012)
<1 (2011)
<1 (2011, 2012, & 2013)
0
500
1000
1500
2000
Distance from Source (ft)
MODEL VC CONCENTRATIONS FOR YEAR 2012
MW-14 VC
MW-20 VC
MW-25 VC
MW-22 VC
VC MCL = 2 ug/L
Property Line

FIGURE 10 - UPDATED GANTT CHART SCHEDULE OF VRP ACTIVITIES

ID	Task Name	Start
1	EPD Approval of VRP Application	Thu 3/10/11
2	Obtain Wetlands Disturbance Permit/Mitigation Credits	Thu 9/15/11
3	Install ESCP Measures and Receive Materials	Mon 2/6/12
4	Obtain Land Disturbance Permit	Mon 1/9/12
5	Install Seep Control Measures	Tue 4/10/12
6	Submit Certificate of Completion to USACE	Mon 6/11/12
7	EPD Comment Ltr 7/16/12	Mon 7/16/12
8	Implement Uniform Environmental Covenant	Fri 11/1/13
9	**Semi-Annual Sampling Event**	**Mon 6/6/11**
10	Semi-Annual Sampling Event 1	Mon 6/6/11
11	Semi-Annual Sampling Event 2	Tue 1/17/12
12	Semi-Annual Sampling Event 3	Mon 7/9/12
13	Seep Confirmation Sampling Event	Tue 8/7/12
14	Quarterly Seep Sampling Event	Mon 11/19/12
15	Semi-Annual Sampling Event 4	Tue 1/8/13
16	Quarterly Seep Sampling Event	Mon 4/8/13
17	Semi-Annual Sampling Event 5	Mon 6/10/13
18	Semi-Annual Sampling Event 6	Mon 12/9/13
19	Semi-Annual Sampling Event 7	Mon 6/9/14
20	Semi-Annual Sampling Event 8	Mon 12/8/14
21	Semi-Annual Sampling Event 9	Mon 6/8/15
22	Semi-Annual Sampling Event 10	Mon 12/14/15
23	**Submit Semi-Annual Status Report**	**Fri 9/9/11**
24	Submit VRP Status Report #1 & Resp to Comments	Fri 9/9/11
25	Submit VRP Status Report 2	Mon 3/12/12
26	Submit VRP Status Report 3 & Resp to Comments	Mon 9/10/12
27	Submit VRP Status Report 4	Mon 3/11/13
28	Submit VRP Status Report 5	Mon 9/9/13
29	Submit VRP Status Report 6	Mon 3/10/14
30	Submit VRP Status Report 7	Mon 9/8/14
31	Submit VRP Status Report 8	Mon 3/9/15
32	Submit VRP Status Report 9	Thu 9/10/15
33	Preparation and Submittal of Post-Remediation CSR	Mon 12/21/15



Project: ThermoKing Voluntary Remec
Date: Wed 2/27/13

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

APPENDIX A

LABORATORY REPORTS AND FIELD SAMPLING FORMS FOR NOVEMBER 2012 SEEP SAMPLING AND JANUARY 2013 GROUNDWATER, SEEP, SURFACE WATER SAMPLING EVENTS

LABORATORY REPORTS FOR NOVEMBER 2012 SEEP SAMPLING

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

November 27, 2012

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

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

RE: Thermo King Louisville

Dear Rhonda Quinn: Order No: 1211G64

Analytical Environmental Services, Inc. received 9 samples on 11/20/2012 3:15:00 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 07/01/12-06/30/13.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Tara Esbeck

Tara Esbeck
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1211G64

Date: 11-19-12 Page 1 of 1

COMPANY: AMEC

ADDRESS: 1075 BIG SHANTY RD #100 KENNESAW, GA 30144

PHONE: 770 421 3400

FAX:

SAMPLED BY: EVER GUILLEN

SIGNATURE:

ANALYSIS REQUESTED: VOCs + 1,4 Dioxane (8260B)

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs + 1,4 Dioxane (8260B)	REMARKS	No # of Containers
1	DUP-1	11-19-12	1200	X		GW	X	NOTE - VOCs	4
2	MANSON BRANCH - 2	11-19-12	1320	X		GW	X	SITE-SPECIFIC	4
3	SEEP - H	11-19-12	1335	X		GW	X	VOC LIST ONLY.	4
4	SEEP - G	11-19-12	1350	X		GW	X		4
5	SEEP - #2	11-19-12	1410	X		GW	X		4
6	SEEP - I	11-19-12	1500	X		GW	X		4
7	SEEP - L	11-19-12	1515	X		GW	X		4
8	SEEP - B	11-19-12	1535	X		GW	X		4
9	TRIP						X		2
10									
11									
12									
13									
14									

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	11/20/12/1515	1:	11/20/12
2:		2:	15:15
3:		3:	

PROJECT INFORMATION

PROJECT NAME: TK LOUISVILLE

PROJECT #: 6122090322.201

SITE ADDRESS: LOUISVILLE, GA

SEND REPORT TO: RHONDA QUINN

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: C012400941

RECEIPT

Total # of Containers

Turnaround Time Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____

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

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

CLIENT FedEx UPS MAIL COURIER

GREYHOUND OTHER_____

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

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client: AMEC E&I, Inc.
Project: Thermo King Louisville
Lab ID: 1211G64

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Trichloroethene value for the QC samples 1211G64-001AMS/MSD are "E" qualified indicating estimated values over linear calibration range due to the level of target analyte present in the unspiked sample.

RPD value for 1,1-Dichloroethene on sample 1211G64-001AMSD was outside advisory control limits due to suspected non-homogeneous sample matrix. All percent recoveries were within control limits.

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	DUP-1
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 12:00:00 PM
Lab ID:	1211G64-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS	**SW8260B**				**(SW5030B)**			
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,1,1-Trichloroethane	19	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,1-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,1-Dichloroethene	140	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,1-Dichloropropene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,2,3-Trichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	169320	1	11/21/2012 18:46	JT
1,2-Dibromoethane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,2-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,3-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
2,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
2-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
4-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
4-Isopropyltoluene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Benzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Bromobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Bromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Bromodichloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Bromoform	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Bromomethane	BRL	5.0		ug/L	169320	1	11/21/2012 18:46	JT
Carbon tetrachloride	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Chlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Chloroethane	BRL	5.0		ug/L	169320	1	11/21/2012 18:46	JT
Chloroform	2.4	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Chloromethane	BRL	5.0		ug/L	169320	1	11/21/2012 18:46	JT
cis-1,2-Dichloroethene	64	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Dibromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Dibromomethane	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Dichlorodifluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 18:46	JT
Ethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Hexachlorobutadiene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	DUP-1
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 12:00:00 PM
Lab ID:	1211G64-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Isopropylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
m,p-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Methylene chloride	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
n-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
n-Propylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Naphthalene	BRL	5.0		ug/L	169320	1	11/21/2012 18:46	JT
o-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
sec-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Styrene	BRL	5.0		ug/L	169320	1	11/21/2012 18:46	JT
tert-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Tetrachloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Toluene	1.6	1.0		ug/L	169320	1	11/21/2012 18:46	JT
trans-1,2-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Trichloroethene	650	10		ug/L	169320	10	11/23/2012 20:04	JT
Trichlorofluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 18:46	JT
Vinyl chloride	BRL	1.0		ug/L	169320	1	11/21/2012 18:46	JT
Surr: 4-Bromofluorobenzene	94.1	64.6-123		%REC	169320	1	11/21/2012 18:46	JT
Surr: 4-Bromofluorobenzene	94.4	64.6-123		%REC	169320	10	11/23/2012 20:04	JT
Surr: Dibromofluoromethane	86.9	76.6-133		%REC	169320	10	11/23/2012 20:04	JT
Surr: Dibromofluoromethane	97.2	76.6-133		%REC	169320	1	11/21/2012 18:46	JT
Surr: Toluene-d8	85	77.8-120		%REC	169320	1	11/21/2012 18:46	JT
Surr: Toluene-d8	86.6	77.8-120		%REC	169320	10	11/23/2012 20:04	JT
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	5.0		ug/L	169389	1	11/26/2012 17:52	JT
Surr: 4-Bromofluorobenzene	101	70-130		%REC	169389	1	11/26/2012 17:52	JT
Surr: Dibromofluoromethane	102	70-130		%REC	169389	1	11/26/2012 17:52	JT
Surr: Toluene-d8	99.4	70-130		%REC	169389	1	11/26/2012 17:52	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	MASON BRANCH-2
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 1:20:00 PM
Lab ID:	1211G64-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,1,1-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,1-Dichloroethane	6.9	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,1-Dichloroethene	20	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,1-Dichloropropene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,2,3-Trichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	169320	1	11/21/2012 19:15	JT
1,2-Dibromoethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,2-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,3-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
2,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
2-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
4-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
4-Isopropyltoluene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Benzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Bromobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Bromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Bromodichloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Bromoform	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Bromomethane	BRL	5.0		ug/L	169320	1	11/21/2012 19:15	JT
Carbon tetrachloride	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Chlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Chloroethane	BRL	5.0		ug/L	169320	1	11/21/2012 19:15	JT
Chloroform	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Chloromethane	BRL	5.0		ug/L	169320	1	11/21/2012 19:15	JT
cis-1,2-Dichloroethene	170	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Dibromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Dibromomethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Dichlorodifluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 19:15	JT
Ethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Hexachlorobutadiene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	MASON BRANCH-2
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 1:20:00 PM
Lab ID:	1211G64-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Isopropylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
m,p-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Methylene chloride	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
n-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
n-Propylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Naphthalene	BRL	5.0		ug/L	169320	1	11/21/2012 19:15	JT
o-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
sec-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Styrene	BRL	5.0		ug/L	169320	1	11/21/2012 19:15	JT
tert-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Tetrachloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Toluene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
trans-1,2-Dichloroethene	2.2	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Trichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Trichlorofluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 19:15	JT
Vinyl chloride	84	1.0		ug/L	169320	1	11/21/2012 19:15	JT
Surr: 4-Bromofluorobenzene	95.8	64.6-123		%REC	169320	1	11/21/2012 19:15	JT
Surr: Dibromofluoromethane	94.3	76.6-133		%REC	169320	1	11/21/2012 19:15	JT
Surr: Toluene-d8	84.3	77.8-120		%REC	169320	1	11/21/2012 19:15	JT
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	5.0		ug/L	169389	1	11/24/2012 01:45	JT
Surr: 4-Bromofluorobenzene	101	70-130		%REC	169389	1	11/24/2012 01:45	JT
Surr: Dibromofluoromethane	100	70-130		%REC	169389	1	11/24/2012 01:45	JT
Surr: Toluene-d8	98.4	70-130		%REC	169389	1	11/24/2012 01:45	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	SEEP-H
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 1:35:00 PM
Lab ID:	1211G64-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,1,1-Trichloroethane	20	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,1-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,1-Dichloroethene	140	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,1-Dichloropropene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,2,3-Trichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	169320	1	11/21/2012 19:45	JT
1,2-Dibromoethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,2-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,3-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
2,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
2-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
4-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
4-Isopropyltoluene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Benzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Bromobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Bromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Bromodichloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Bromoform	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Bromomethane	BRL	5.0		ug/L	169320	1	11/21/2012 19:45	JT
Carbon tetrachloride	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Chlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Chloroethane	BRL	5.0		ug/L	169320	1	11/21/2012 19:45	JT
Chloroform	2.3	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Chloromethane	BRL	5.0		ug/L	169320	1	11/21/2012 19:45	JT
cis-1,2-Dichloroethene	64	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Dibromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Dibromomethane	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Dichlorodifluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 19:45	JT
Ethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Hexachlorobutadiene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	SEEP-H
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 1:35:00 PM
Lab ID:	1211G64-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Isopropylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
m,p-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Methylene chloride	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
n-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
n-Propylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Naphthalene	BRL	5.0		ug/L	169320	1	11/21/2012 19:45	JT
o-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
sec-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Styrene	BRL	5.0		ug/L	169320	1	11/21/2012 19:45	JT
tert-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Tetrachloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Toluene	1.6	1.0		ug/L	169320	1	11/21/2012 19:45	JT
trans-1,2-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Trichloroethene	550	10		ug/L	169320	10	11/23/2012 20:35	JT
Trichlorofluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 19:45	JT
Vinyl chloride	BRL	1.0		ug/L	169320	1	11/21/2012 19:45	JT
Surr: 4-Bromofluorobenzene	92.2	64.6-123		%REC	169320	10	11/23/2012 20:35	JT
Surr: 4-Bromofluorobenzene	94.3	64.6-123		%REC	169320	1	11/21/2012 19:45	JT
Surr: Dibromofluoromethane	85.9	76.6-133		%REC	169320	10	11/23/2012 20:35	JT
Surr: Dibromofluoromethane	94	76.6-133		%REC	169320	1	11/21/2012 19:45	JT
Surr: Toluene-d8	83.4	77.8-120		%REC	169320	1	11/21/2012 19:45	JT
Surr: Toluene-d8	86.2	77.8-120		%REC	169320	10	11/23/2012 20:35	JT
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	5.0		ug/L	169389	1	11/26/2012 18:20	JT
Surr: 4-Bromofluorobenzene	102	70-130		%REC	169389	1	11/26/2012 18:20	JT
Surr: Dibromofluoromethane	103	70-130		%REC	169389	1	11/26/2012 18:20	JT
Surr: Toluene-d8	98.9	70-130		%REC	169389	1	11/26/2012 18:20	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	SEEP-G
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 1:50:00 PM
Lab ID:	1211G64-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,1,1-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,1-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,1-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,1-Dichloropropene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,2,3-Trichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	169320	1	11/21/2012 20:15	JT
1,2-Dibromoethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,2-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,3-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
2,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
2-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
4-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
4-Isopropyltoluene	2.6	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Benzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Bromobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Bromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Bromodichloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Bromoform	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Bromomethane	BRL	5.0		ug/L	169320	1	11/21/2012 20:15	JT
Carbon tetrachloride	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Chlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Chloroethane	BRL	5.0		ug/L	169320	1	11/21/2012 20:15	JT
Chloroform	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Chloromethane	BRL	5.0		ug/L	169320	1	11/21/2012 20:15	JT
cis-1,2-Dichloroethene	7.6	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Dibromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Dibromomethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Dichlorodifluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 20:15	JT
Ethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Hexachlorobutadiene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	SEEP-G
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 1:50:00 PM
Lab ID:	1211G64-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Isopropylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
m,p-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Methylene chloride	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
n-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
n-Propylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Naphthalene	BRL	5.0		ug/L	169320	1	11/21/2012 20:15	JT
o-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
sec-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Styrene	BRL	5.0		ug/L	169320	1	11/21/2012 20:15	JT
tert-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Tetrachloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Toluene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
trans-1,2-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Trichloroethene	3.8	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Trichlorofluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 20:15	JT
Vinyl chloride	BRL	1.0		ug/L	169320	1	11/21/2012 20:15	JT
Surr: 4-Bromofluorobenzene	90.2	64.6-123		%REC	169320	1	11/21/2012 20:15	JT
Surr: Dibromofluoromethane	90.5	76.6-133		%REC	169320	1	11/21/2012 20:15	JT
Surr: Toluene-d8	82.7	77.8-120		%REC	169320	1	11/21/2012 20:15	JT
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	5.0		ug/L	169389	1	11/26/2012 15:33	JT
Surr: 4-Bromofluorobenzene	102	70-130		%REC	169389	1	11/26/2012 15:33	JT
Surr: Dibromofluoromethane	99.5	70-130		%REC	169389	1	11/26/2012 15:33	JT
Surr: Toluene-d8	99.7	70-130		%REC	169389	1	11/26/2012 15:33	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	SEEP-#2
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 2:10:00 PM
Lab ID:	1211G64-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**			
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,1,1-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,1-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,1-Dichloroethene	3.7	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,1-Dichloropropene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,2,3-Trichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	169320	1	11/21/2012 20:45	JT
1,2-Dibromoethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,2-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,3-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
2,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
2-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
4-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
4-Isopropyltoluene	2.1	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Benzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Bromobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Bromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Bromodichloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Bromoform	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Bromomethane	BRL	5.0		ug/L	169320	1	11/21/2012 20:45	JT
Carbon tetrachloride	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Chlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Chloroethane	BRL	5.0		ug/L	169320	1	11/21/2012 20:45	JT
Chloroform	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Chloromethane	BRL	5.0		ug/L	169320	1	11/21/2012 20:45	JT
cis-1,2-Dichloroethene	23	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Dibromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Dibromomethane	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Dichlorodifluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 20:45	JT
Ethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Hexachlorobutadiene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	SEEP-#2
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 2:10:00 PM
Lab ID:	1211G64-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Isopropylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
m,p-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Methylene chloride	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
n-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
n-Propylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Naphthalene	BRL	5.0		ug/L	169320	1	11/21/2012 20:45	JT
o-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
sec-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Styrene	BRL	5.0		ug/L	169320	1	11/21/2012 20:45	JT
tert-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Tetrachloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Toluene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
trans-1,2-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Trichloroethene	23	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Trichlorofluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 20:45	JT
Vinyl chloride	BRL	1.0		ug/L	169320	1	11/21/2012 20:45	JT
Surr: 4-Bromofluorobenzene	90.3	64.6-123		%REC	169320	1	11/21/2012 20:45	JT
Surr: Dibromofluoromethane	93.1	76.6-133		%REC	169320	1	11/21/2012 20:45	JT
Surr: Toluene-d8	85.1	77.8-120		%REC	169320	1	11/21/2012 20:45	JT
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	5.0		ug/L	169389	1	11/26/2012 16:01	JT
Surr: 4-Bromofluorobenzene	101	70-130		%REC	169389	1	11/26/2012 16:01	JT
Surr: Dibromofluoromethane	101	70-130		%REC	169389	1	11/26/2012 16:01	JT
Surr: Toluene-d8	100	70-130		%REC	169389	1	11/26/2012 16:01	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	SEEP-I
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 3:00:00 PM
Lab ID:	1211G64-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,1,1-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,1-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,1-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,1-Dichloropropene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,2,3-Trichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	169320	1	11/21/2012 21:14	JT
1,2-Dibromoethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,2-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,3-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
2,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
2-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
4-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
4-Isopropyltoluene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Benzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Bromobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Bromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Bromodichloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Bromoform	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Bromomethane	BRL	5.0		ug/L	169320	1	11/21/2012 21:14	JT
Carbon tetrachloride	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Chlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Chloroethane	BRL	5.0		ug/L	169320	1	11/21/2012 21:14	JT
Chloroform	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Chloromethane	BRL	5.0		ug/L	169320	1	11/21/2012 21:14	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Dibromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Dibromomethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Dichlorodifluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 21:14	JT
Ethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Hexachlorobutadiene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	SEEP-I
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 3:00:00 PM
Lab ID:	1211G64-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Isopropylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
m,p-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Methylene chloride	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
n-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
n-Propylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Naphthalene	BRL	5.0		ug/L	169320	1	11/21/2012 21:14	JT
o-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
sec-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Styrene	BRL	5.0		ug/L	169320	1	11/21/2012 21:14	JT
tert-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Tetrachloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Toluene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
trans-1,2-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Trichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Trichlorofluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 21:14	JT
Vinyl chloride	BRL	1.0		ug/L	169320	1	11/21/2012 21:14	JT
Surr: 4-Bromofluorobenzene	90.6	64.6-123		%REC	169320	1	11/21/2012 21:14	JT
Surr: Dibromofluoromethane	91.7	76.6-133		%REC	169320	1	11/21/2012 21:14	JT
Surr: Toluene-d8	82.9	77.8-120		%REC	169320	1	11/21/2012 21:14	JT
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	5.0		ug/L	169389	1	11/26/2012 16:29	JT
Surr: 4-Bromofluorobenzene	101	70-130		%REC	169389	1	11/26/2012 16:29	JT
Surr: Dibromofluoromethane	99.4	70-130		%REC	169389	1	11/26/2012 16:29	JT
Surr: Toluene-d8	101	70-130		%REC	169389	1	11/26/2012 16:29	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	SEEP-L
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 3:15:00 PM
Lab ID:	1211G64-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,1,1-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,1-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,1-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,1-Dichloropropene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,2,3-Trichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	169320	1	11/21/2012 21:44	JT
1,2-Dibromoethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,2-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,3-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
2,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
2-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
4-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
4-Isopropyltoluene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Benzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Bromobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Bromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Bromodichloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Bromoform	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Bromomethane	BRL	5.0		ug/L	169320	1	11/21/2012 21:44	JT
Carbon tetrachloride	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Chlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Chloroethane	BRL	5.0		ug/L	169320	1	11/21/2012 21:44	JT
Chloroform	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Chloromethane	BRL	5.0		ug/L	169320	1	11/21/2012 21:44	JT
cis-1,2-Dichloroethene	2.0	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Dibromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Dibromomethane	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Dichlorodifluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 21:44	JT
Ethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Hexachlorobutadiene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	SEEP-L
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 3:15:00 PM
Lab ID:	1211G64-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Isopropylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
m,p-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Methylene chloride	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
n-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
n-Propylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Naphthalene	BRL	5.0		ug/L	169320	1	11/21/2012 21:44	JT
o-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
sec-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Styrene	BRL	5.0		ug/L	169320	1	11/21/2012 21:44	JT
tert-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Tetrachloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Toluene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
trans-1,2-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Trichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Trichlorofluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 21:44	JT
Vinyl chloride	BRL	1.0		ug/L	169320	1	11/21/2012 21:44	JT
Surr: 4-Bromofluorobenzene	94.5	64.6-123		%REC	169320	1	11/21/2012 21:44	JT
Surr: Dibromofluoromethane	92.9	76.6-133		%REC	169320	1	11/21/2012 21:44	JT
Surr: Toluene-d8	81.1	77.8-120		%REC	169320	1	11/21/2012 21:44	JT
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	5.0		ug/L	169389	1	11/26/2012 16:56	JT
Surr: 4-Bromofluorobenzene	101	70-130		%REC	169389	1	11/26/2012 16:56	JT
Surr: Dibromofluoromethane	98.4	70-130		%REC	169389	1	11/26/2012 16:56	JT
Surr: Toluene-d8	98.5	70-130		%REC	169389	1	11/26/2012 16:56	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	SEEP-B
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 3:35:00 PM
Lab ID:	1211G64-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,1,1-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,1-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,1-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,1-Dichloropropene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,2,3-Trichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	169320	1	11/21/2012 22:13	JT
1,2-Dibromoethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,2-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,3-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
2,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
2-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
4-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
4-Isopropyltoluene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Benzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Bromobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Bromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Bromodichloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Bromoform	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Bromomethane	BRL	5.0		ug/L	169320	1	11/21/2012 22:13	JT
Carbon tetrachloride	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Chlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Chloroethane	BRL	5.0		ug/L	169320	1	11/21/2012 22:13	JT
Chloroform	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Chloromethane	BRL	5.0		ug/L	169320	1	11/21/2012 22:13	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Dibromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Dibromomethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Dichlorodifluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 22:13	JT
Ethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Hexachlorobutadiene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	SEEP-B
Project Name:	Thermo King Louisville	**Collection Date:**	11/19/2012 3:35:00 PM
Lab ID:	1211G64-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Isopropylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
m,p-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Methylene chloride	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
n-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
n-Propylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Naphthalene	BRL	5.0		ug/L	169320	1	11/21/2012 22:13	JT
o-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
sec-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Styrene	BRL	5.0		ug/L	169320	1	11/21/2012 22:13	JT
tert-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Tetrachloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Toluene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
trans-1,2-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Trichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Trichlorofluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 22:13	JT
Vinyl chloride	BRL	1.0		ug/L	169320	1	11/21/2012 22:13	JT
Surr: 4-Bromofluorobenzene	91.5	64.6-123		%REC	169320	1	11/21/2012 22:13	JT
Surr: Dibromofluoromethane	94.7	76.6-133		%REC	169320	1	11/21/2012 22:13	JT
Surr: Toluene-d8	83.2	77.8-120		%REC	169320	1	11/21/2012 22:13	JT
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	5.0		ug/L	169389	1	11/26/2012 17:24	JT
Surr: 4-Bromofluorobenzene	101	70-130		%REC	169389	1	11/26/2012 17:24	JT
Surr: Dibromofluoromethane	101	70-130		%REC	169389	1	11/26/2012 17:24	JT
Surr: Toluene-d8	101	70-130		%REC	169389	1	11/26/2012 17:24	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Thermo King Louisville	**Collection Date:**	11/20/2012
Lab ID:	1211G64-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**			
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,1,1-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,1,2-Trichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,1-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,1-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,1-Dichloropropene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,2,3-Trichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	169320	1	11/21/2012 22:43	JT
1,2-Dibromoethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,2-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,2-Dichloroethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,3-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,3-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
1,4-Dichlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
2,2-Dichloropropane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
2-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
4-Chlorotoluene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
4-Isopropyltoluene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Benzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Bromobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Bromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Bromodichloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Bromoform	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Bromomethane	BRL	5.0		ug/L	169320	1	11/21/2012 22:43	JT
Carbon tetrachloride	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Chlorobenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Chloroethane	BRL	5.0		ug/L	169320	1	11/21/2012 22:43	JT
Chloroform	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Chloromethane	BRL	5.0		ug/L	169320	1	11/21/2012 22:43	JT
cis-1,2-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Dibromochloromethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Dibromomethane	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Dichlorodifluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 22:43	JT
Ethylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Hexachlorobutadiene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client:	AMEC E&I, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Thermo King Louisville	**Collection Date:**	11/20/2012
Lab ID:	1211G64-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Isopropylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
m,p-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Methylene chloride	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
n-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
n-Propylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Naphthalene	BRL	5.0		ug/L	169320	1	11/21/2012 22:43	JT
o-Xylene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
sec-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Styrene	BRL	5.0		ug/L	169320	1	11/21/2012 22:43	JT
tert-Butylbenzene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Tetrachloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Toluene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
trans-1,2-Dichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Trichloroethene	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Trichlorofluoromethane	BRL	5.0		ug/L	169320	1	11/21/2012 22:43	JT
Vinyl chloride	BRL	1.0		ug/L	169320	1	11/21/2012 22:43	JT
Surr: 4-Bromofluorobenzene	88.1	64.6-123		%REC	169320	1	11/21/2012 22:43	JT
Surr: Dibromofluoromethane	95.7	76.6-133		%REC	169320	1	11/21/2012 22:43	JT
Surr: Toluene-d8	84.7	77.8-120		%REC	169320	1	11/21/2012 22:43	JT
1,4-Dioxane by SIM GC/MS SW8260B-SIM				**(SW5030B)**				
1,4-Dioxane	BRL	5.0		ug/L	169389	1	11/23/2012 23:27	JT
Surr: 4-Bromofluorobenzene	100	70-130		%REC	169389	1	11/23/2012 23:27	JT
Surr: Dibromofluoromethane	99.1	70-130		%REC	169389	1	11/23/2012 23:27	JT
Surr: Toluene-d8	98.6	70-130		%REC	169389	1	11/23/2012 23:27	JT

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client AMEC Work Order Number 1211G64

Checklist completed by BMEH 11/21/12
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 3.8 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.

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

Client: AMEC E&I, Inc.
Project Name: Thermo King Louisville
Workorder: 1211G64

ANALYTICAL QC SUMMARY REPORT

BatchID: **169320**

Sample ID: **MB-169320** Client ID: Units: **ug/L** Prep Date: **11/21/2012** Run No: **233480**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **169320** Analysis Date: **11/21/2012** Seq No: **4889454**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,1-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	
1,1-Dichloropropene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2,3-Trichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2,3-Trichloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2,4-Trimethylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,3,5-Trimethylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
1,3-Dichloropropane	BRL	1.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
2,2-Dichloropropane	BRL	2.0	0	0	0	0	0	0	0	0	
2-Chlorotoluene	BRL	1.0	0	0	0	0	0	0	0	0	
4-Chlorotoluene	BRL	1.0	0	0	0	0	0	0	0	0	
4-Isopropyltoluene	BRL	2.0	0	0	0	0	0	0	0	0	
Benzene	BRL	1.0	0	0	0	0	0	0	0	0	
Bromobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Bromochloromethane	BRL	1.0	0	0	0	0	0	0	0	0	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client: AMEC E&I, Inc.
Project Name: Thermo King Louisville
Workorder: 1211G64

ANALYTICAL QC SUMMARY REPORT

BatchID: 169320

Sample ID: **MB-169320** Client ID: Units: **ug/L** Prep Date: **11/21/2012** Run No: **233480**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **169320** Analysis Date: **11/21/2012** Seq No: **4889454**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromodichloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	1.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	1.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	2.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	1.0	0	0	0	0	0	0	0	0	
Chloroform	BRL	1.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Dibromomethane	BRL	1.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Hexachlorobutadiene	BRL	1.0	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
n-Butylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
n-Propylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Naphthalene	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	1.0	0	0	0	0	0	0	0	0	
sec-Butylbenzene	BRL	2.0	0	0	0	0	0	0	0	0	
Styrene	BRL	1.0	0	0	0	0	0	0	0	0	
tert-Butylbenzene	BRL	1.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Toluene	BRL	1.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	2.0	0	0	0	0	0	0	0	0	

Qualifiers:

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

Client: AMEC E&I, Inc.
Project Name: Thermo King Louisville
Workorder: 1211G64

ANALYTICAL QC SUMMARY REPORT

BatchID: 169320

Sample ID: **MB-169320** Client ID: Units: **ug/L** Prep Date: **11/21/2012** Run No: **233480**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **169320** Analysis Date: **11/21/2012** Seq No: **4889454**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Trichloroethene	BRL	1.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	1.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	47.48	0	50	0	95	64.6	123	0	0	0	
Surr: Dibromofluoromethane	45.26	0	50	0	90.5	76.6	133	0	0	0	
Surr: Toluene-d8	43.47	0	50	0	86.9	77.8	120	0	0	0	

Sample ID: **LCS-169320** Client ID: Units: **ug/L** Prep Date: **11/21/2012** Run No: **233480**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **169320** Analysis Date: **11/21/2012** Seq No: **4889453**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	44.26	2.0	50	0	88.5	60	140	0	0	0	
Benzene	46.98	1.0	50	0	94	70	130	0	0	0	
Chlorobenzene	44.16	1.0	50	0	88.3	70	130	0	0	0	
Toluene	47.28	1.0	50	0	94.6	70	130	0	0	0	
Trichloroethene	47.53	1.0	50	0	95.1	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	50.59	0	50	0	101	64.6	123	0	0	0	
Surr: Dibromofluoromethane	45.85	0	50	0	91.7	76.6	133	0	0	0	
Surr: Toluene-d8	45.05	0	50	0	90.1	77.8	120	0	0	0	

Sample ID: **1211G64-001AMS** Client ID: **DUP-1** Units: **ug/L** Prep Date: **11/21/2012** Run No: **233595**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **169320** Analysis Date: **11/23/2012** Seq No: **4891632**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	154.2	2.0	50	139.4	29.5	50.1	179	0	0	0	S
Benzene	46.30	1.0	50	0	92.6	61.2	150	0	0	0	
Chlorobenzene	43.83	1.0	50	0	87.7	72.1	140	0	0	0	
Toluene	46.56	1.0	50	1.650	89.8	58.7	154	0	0	0	

Qualifiers:

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

Client: AMEC E&I, Inc.
Project Name: Thermo King Louisville
Workorder: 1211G64

ANALYTICAL QC SUMMARY REPORT

BatchID: **169320**

Sample ID: **1211G64-001AMS** Client ID: **DUP-1** Units: **ug/L** Prep Date: **11/21/2012** Run No: **233595**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS** **SW8260B** BatchID: **169320** Analysis Date: **11/23/2012** Seq No: **4891632**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Trichloroethene	651.8	1.0	50	728.4	-153	68.3	149	0	0	0	SE
Surr: 4-Bromofluorobenzene	51.66	0	50	0	103	64.6	123	0	0	0	
Surr: Dibromofluoromethane	43.55	0	50	0	87.1	76.6	133	0	0	0	
Surr: Toluene-d8	44.17	0	50	0	88.3	77.8	120	0	0	0	

Sample ID: **1211G64-001AMSD** Client ID: **DUP-1** Units: **ug/L** Prep Date: **11/21/2012** Run No: **233595**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS** **SW8260B** BatchID: **169320** Analysis Date: **11/23/2012** Seq No: **4891633**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	114.0	2.0	50	139.4	-50.9	50.1	179	154.2	30	23.3	SR
Benzene	45.92	1.0	50	0	91.8	61.2	150	46.30	0.824	19	
Chlorobenzene	43.52	1.0	50	0	87	72.1	140	43.83	0.71	21.5	
Toluene	46.59	1.0	50	1.650	89.9	58.7	154	46.56	0.064	20	
Trichloroethene	655.0	1.0	50	728.4	-147	68.3	149	651.8	0.491	17.7	SE
Surr: 4-Bromofluorobenzene	52.53	0	50	0	105	64.6	123	51.66	0	0	
Surr: Dibromofluoromethane	45.41	0	50	0	90.8	76.6	133	43.55	0	0	
Surr: Toluene-d8	45.25	0	50	0	90.5	77.8	120	44.17	0	0	

Qualifiers:

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

Client: AMEC E&I, Inc.
Project Name: Thermo King Louisville
Workorder: 1211G64

ANALYTICAL QC SUMMARY REPORT

BatchID: 169389

Sample ID: **MB-169389** Client ID: Units: **ug/L** Prep Date: **11/23/2012** Run No: **233591**
SampleType: **MBLK** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **169389** Analysis Date: **11/23/2012** Seq No: **4891534**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	5.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	50.63	0	50	0	101	70	130	0	0	0	
Surr: Dibromofluoromethane	50.83	0	50	0	102	70	130	0	0	0	
Surr: Toluene-d8	50.19	0	50	0	100	70	130	0	0	0	

Sample ID: **LCS-169389** Client ID: Units: **ug/L** Prep Date: **11/23/2012** Run No: **233591**
SampleType: **LCS** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **169389** Analysis Date: **11/23/2012** Seq No: **4891533**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	9.840	5.0	10	0	98.4	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	50.00	0	50	0	100	70	130	0	0	0	
Surr: Dibromofluoromethane	49.77	0	50	0	99.5	70	130	0	0	0	
Surr: Toluene-d8	50.10	0	50	0	100	70	130	0	0	0	

Sample ID: **1211G64-001AMS** Client ID: **DUP-1** Units: **ug/L** Prep Date: **11/23/2012** Run No: **233591**
SampleType: **MS** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **169389** Analysis Date: **11/24/2012** Seq No: **4891539**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	82.70	50	100	0	82.7	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	501.6	0	500	0	100	70	130	0	0	0	
Surr: Dibromofluoromethane	489.5	0	500	0	97.9	70	130	0	0	0	
Surr: Toluene-d8	504.2	0	500	0	101	70	130	0	0	0	

Sample ID: **1211G64-001AMSD** Client ID: **DUP-1** Units: **ug/L** Prep Date: **11/23/2012** Run No: **233591**
SampleType: **MSD** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **169389** Analysis Date: **11/24/2012** Seq No: **4891541**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	100.6	50	100	0	101	70	130	82.70	19.5	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 27-Nov-12

Client: AMEC E&I, Inc.
Project Name: Thermo King Louisville
Workorder: 1211G64

ANALYTICAL QC SUMMARY REPORT

BatchID: 169389

Sample ID: **1211G64-001AMSD** Client ID: **DUP-1** Units: **ug/L** Prep Date: **11/23/2012** Run No: **233591**
SampleType: **MSD** TestCode: **1,4-Dioxane by SIM GC/MS SW8260B-SIM** BatchID: **169389** Analysis Date: **11/24/2012** Seq No: **4891541**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	510.0	0	500	0	102	70	130	501.6	0	0	
Surr: Dibromofluoromethane	498.7	0	500	0	99.7	70	130	489.5	0	0	
Surr: Toluene-d8	502.5	0	500	0	100	70	130	504.2	0	0	

Qualifiers:

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

AES
Analytical Environmental Services, Inc.,
3785 Presidential Parkway
Atlanta, GA 30340

Stipulation of Approval for Commercial Laboratory

According to Georgia State Law (O.C.G.A. 12-2-9) Commercial Rules for Commercial Laboratory Accreditation, any person submitting data to EPD prepared by a commercial laboratory shall stipulate that the laboratory is approved (Chapter 391-3-26-.05). The following information is provided as requested.

Laboratory	Analytical Environmental Services, Inc. (AES) 3785 Presidential Parkway, NE Atlanta, GA 30340 (770) 457-8177
Accredited By:	State of Florida, Department of Health, Bureau of Laboratories; Accrediting NELAP Authority
Accreditation ID:	E87582
Scope:	Clean Water Act – Extractable Organics, General Chemistry, Metals, Microbiology, Pesticides-Herbicides, PCBs, Volatile Organics RCRA/CERCLA – Extractable Organics, General Chemistry, Metals, Pesticides-Herbicides, PCBs, Volatile Organics
Effective:	July 1, 2012
Expires:	June 30, 2013

I further certify that the sample(s) for which this data is being submitted has been handled pursuant to the appropriate chain of custody. Any question regarding this stipulation of approval may be directed to AES at 770 457-8177. Thank you for your business and please do not hesitate contacting us if we can be of further assistance.

Sincerely,

James Forrest
Director of Project Management

FIELD SAMPLING FORMS

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Seep** MB#2 DEPTH TO PRODUCT:_____ DATE: 11-19-12

PURGE METHOD: NA TIME: 1320

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = _____ NA

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial:		6.67	12.9	0.13	65.1	— ( )	
COMMENTS:							

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	4	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION	
WEATHER:	COLD - CLEAR
SHIPPED VIA:	FedEX
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA
SAMPLER: EVER GUILLEN	OBSERVER:

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Seep** B DEPTH TO PRODUCT:_____ DATE: 11-19-12

PURGE METHOD: NA TIME: 1535

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = _____ NA

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial:		9.27	14.2	0.07	93.6	— ( )	
COMMENTS:							

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	~~3~~ 4	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION	
WEATHER:	COLD - CLEAR
SHIPPED VIA:	FedEX
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA
SAMPLER: EVER GULLEN	OBSERVER:

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Seep** G DEPTH TO PRODUCT:_____ DATE: 11-19-12

PURGE METHOD: NA TIME: 1350

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = _____ NA

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial:		7.03	13.2	0.04	32.6	— ( )	
COMMENTS:							

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	4	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION			
WEATHER:	COLD - CLEAR		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	EVER GUILLEN	OBSERVER:	

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: Seep H

DEPTH TO PRODUCT: Inside Pipe

DATE: 11-19-12

PURGE METHOD: NA

TIME: 1335

SAMPLE METHOD: Fill bottle from surface water

GRAB (x) COMPOSITE ( )

DUP./REP. OF: DUP-1 @ 1200

DEPTH TO WATER:

DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:

Arrived at:

PURGE VOLUME:

WELL DIAMETER (inches): NA

Initial PID =

Bailing PID =

[HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial:		5.66	15.3	0.07	0.71	— ( )	

COMMENTS: ALSO COLLECTED DUP-1 @ 1200

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	~~3~~ 4	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION	
WEATHER:	COLD - CLEAR
SHIPPED VIA:	FedEX
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA
SAMPLER: EVER GUILLEN	OBSERVER:

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Seep** I

DEPTH TO PRODUCT:

DATE: 11-19-12

PURGE METHOD: NA

TIME: 1500

SAMPLE METHOD: Fill bottle from surface water

GRAB (x) COMPOSITE ( )

DUP./REP. OF:

DEPTH TO WATER:

DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:

Arrived at:

PURGE VOLUME:

WELL DIAMETER (inches): NA

Initial PID =

Bailing PID =

[HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial:		9.08	13.2	0.06	1024	— ( )	

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	~~3~~ 4	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION			
WEATHER:	COLD - CLEAR		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	EVER GUILLEN	OBSERVER:	

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Seep** L DEPTH TO PRODUCT:_____ DATE: 11-19-20

PURGE METHOD: NA TIME: 1515

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = _____ NA

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial:		9.66	13.4	0.22	105.6	— ( )	
COMMENTS:							

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3/4	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION	
WEATHER:	COLD-CLEAR
SHIPPED VIA:	FedEX
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA
SAMPLER: EVER GUILLEN	OBSERVER:

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: Seep #2 west DEPTH TO PRODUCT:_____ DATE: 11-19-12

PURGE METHOD: NA TIME: 1410

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches): NA

Initial PID = _____

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial:		7.22	13.6	0.02	48.4	— ( )	

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	~~3~~ 4	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION	
WEATHER:	COLD - CLEAR
SHIPPED VIA:	FedEX
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA
SAMPLER: EVER GUILLEN	OBSERVER:

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

LABORATORY REPORTS FOR JANUARY 2013 GROUNDWATER, SEEP, AND SURFACE WATER SAMPLING

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-19826-1
Client Project/Site: TK LOUISVILLE

For:
AMEC Environment & Infrastructure, Inc.
1075 Big Shanty Road, NW
Suite 100
Kennesaw, Georgia 30144

Attn: Ms. Rhonda Quinn

Patrick O'Meara

Authorized for release by:
1/23/2013 2:46:20 PM

Patrick O'Meara
Project Manager II
patrick.omeara@testamericainc.com

LINKS

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

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

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Glossary

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

Job ID: 240-19826-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: AMEC Environment & Infrastructure, Inc.

Project: TK LOUISVILLE

Report Number: 240-19826-1

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

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 01/12/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.6 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MB-2 (240-19826-1), SEEP-H (240-19826-2), SEEP-G (240-19826-3), SEEP-2 (240-19826-4), SEEP-I (240-19826-5), SEEP-L (240-19826-6), SEEP-B (240-19826-7), DUP-1 (240-19826-8), MB-3 (240-19826-9), MB15 (240-19826-10), MB-5 (240-19826-11), MB-16 (240-19826-12), MW-28 (240-19826-13), MW-27 (240-19826-14), MW-25 (240-19826-15), EB-1 (240-19826-16), MW-20 (240-19826-17), MW-22 (240-19826-18), MW-14 (240-19826-19), MW-19 (240-19826-20), DUP-2 (240-19826-21), MW-10 (240-19826-22), MW-5 (240-19826-23), MW-3 (240-19826-24) and TRIP BLANK (240-19826-25) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 01/16/2013, 01/17/2013 and 01/18/2013.

Samples MB-2 (240-19826-1)[5X], SEEP-H (240-19826-2)[20X], DUP-1 (240-19826-8)[20X], MW-25 (240-19826-15)[125X], MW-20 (240-19826-17)[9.09X], MW-14 (240-19826-19)[100X], MW-19 (240-19826-20)[200X], DUP-2 (240-19826-21)[200X] and MW-5 (240-19826-23)[8X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

A MS/MSD was analyzed in batch 72267 but could not be reported because the associated sample was re-analyzed in a different batch.

No other difficulties were encountered during the VOCs analyses. All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS SIM)

Samples MW-28 (240-19826-13), MW-27 (240-19826-14), MW-25 (240-19826-15), MW-20 (240-19826-17), MW-14 (240-19826-19),

Job ID: 240-19826-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

MW-19 (240-19826-20) and MW-5 (240-19826-23) were analyzed for volatile organic compounds (GC-MS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 01/17/2013 and 01/18/2013.

Samples MW-25 (240-19826-15)[12.5X], MW-14 (240-19826-19)[10X] and MW-5 (240-19826-23)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample(s) was diluted due to the nature of the sample matrix: (240-19826-15 MS), (240-19826-15 MSD), MW-25 (240-19826-15). Elevated reporting limits (RLs) are provided.

The following sample(s) was diluted due to the nature of the sample matrix: (240-19826-19 MS), (240-19826-19 MSD), MW-14 (240-19826-19), MW-5 (240-19826-23). Elevated reporting limits (RLs) are provided.

No other difficulties were encountered during the VOC SIM analyses. All quality control parameters were within the acceptance limits.

Method Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

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

Protocol References:

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

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-19826-1	MB-2	Water	01/08/13 13:18	01/12/13 10:00
240-19826-2	SEEP-H	Water	01/08/13 13:30	01/12/13 10:00
240-19826-3	SEEP-G	Water	01/08/13 13:45	01/12/13 10:00
240-19826-4	SEEP-2	Water	01/08/13 13:55	01/12/13 10:00
240-19826-5	SEEP-I	Water	01/08/13 14:08	01/12/13 10:00
240-19826-6	SEEP-L	Water	01/08/13 14:18	01/12/13 10:00
240-19826-7	SEEP-B	Water	01/08/13 16:27	01/12/13 10:00
240-19826-8	DUP-1	Water	01/08/13 12:00	01/12/13 10:00
240-19826-9	MB-3	Water	01/08/13 15:25	01/12/13 10:00
240-19826-10	MB15	Water	01/08/13 15:38	01/12/13 10:00
240-19826-11	MB-5	Water	01/08/13 15:59	01/12/13 10:00
240-19826-12	MB-16	Water	01/08/13 16:12	01/12/13 10:00
240-19826-13	MW-28	Water	01/09/13 11:25	01/12/13 10:00
240-19826-14	MW-27	Water	01/09/13 12:16	01/12/13 10:00
240-19826-15	MW-25	Water	01/09/13 17:03	01/12/13 10:00
240-19826-16	EB-1	WQ	01/10/13 08:45	01/12/13 10:00
240-19826-17	MW-20	Water	01/10/13 13:12	01/12/13 10:00
240-19826-18	MW-22	Water	01/10/13 16:33	01/12/13 10:00
240-19826-19	MW-14	Water	01/09/13 11:55	01/12/13 10:00
240-19826-20	MW-19	Water	01/09/13 14:45	01/12/13 10:00
240-19826-21	DUP-2	Water	01/09/13 12:00	01/12/13 10:00
240-19826-22	MW-10	Water	01/10/13 11:15	01/12/13 10:00
240-19826-23	MW-5	Water	01/10/13 14:35	01/12/13 10:00
240-19826-24	MW-3	Water	01/10/13 17:25	01/12/13 10:00
240-19826-25	TRIP BLANK	WQ	01/08/13 00:00	01/12/13 10:00

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MB-2 — Lab Sample ID: 240-19826-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170		5.0		ug/L	5		8260B	Total/NA
1,1-Dichloroethane	8.2		5.0		ug/L	5		8260B	Total/NA
1,1-Dichloroethene	17		5.0		ug/L	5		8260B	Total/NA
Vinyl chloride	71		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: SEEP-H — Lab Sample ID: 240-19826-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	47		20		ug/L	20		8260B	Total/NA
1,1-Dichloroethene	84		20		ug/L	20		8260B	Total/NA
Trichloroethene	610		20		ug/L	20		8260B	Total/NA

Client Sample ID: SEEP-G — Lab Sample ID: 240-19826-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	2.2		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	4.8		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SEEP-2 — Lab Sample ID: 240-19826-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	21		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	4.6		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	26		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SEEP-I — Lab Sample ID: 240-19826-5

No Detections

Client Sample ID: SEEP-L — Lab Sample ID: 240-19826-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.9		1.0		ug/L	1		8260B	Total/NA
Vinyl chloride	1.3		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SEEP-B — Lab Sample ID: 240-19826-7

No Detections

Client Sample ID: DUP-1 — Lab Sample ID: 240-19826-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	47		20		ug/L	20		8260B	Total/NA
1,1-Dichloroethene	84		20		ug/L	20		8260B	Total/NA
Trichloroethene	630		20		ug/L	20		8260B	Total/NA

Client Sample ID: MB-3 — Lab Sample ID: 240-19826-9

No Detections

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MB15 — Lab Sample ID: 240-19826-10

No Detections

Client Sample ID: MB-5 — Lab Sample ID: 240-19826-11

No Detections

Client Sample ID: MB-16 — Lab Sample ID: 240-19826-12

No Detections

Client Sample ID: MW-28 — Lab Sample ID: 240-19826-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.7		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-27 — Lab Sample ID: 240-19826-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.2		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	2.9		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	13		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-25 — Lab Sample ID: 240-19826-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	860		130		ug/L	125		8260B	Total/NA
Trichloroethene	4300		130		ug/L	125		8260B	Total/NA

Client Sample ID: EB-1 — Lab Sample ID: 240-19826-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	12		1.0		ug/L	1		8260B	Total/NA
Methylene Chloride	3.5		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 240-19826-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	320		9.1		ug/L	9.091		8260B	Total/NA

Client Sample ID: MW-22 — Lab Sample ID: 240-19826-18

No Detections

Client Sample ID: MW-14 — Lab Sample ID: 240-19826-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	310		100		ug/L	100		8260B	Total/NA
Trichloroethene	3400		100		ug/L	100		8260B	Total/NA

Client Sample ID: MW-19 — Lab Sample ID: 240-19826-20

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MW-19 (Continued) — Lab Sample ID: 240-19826-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	6400		200		ug/L	200		8260B	Total/NA

Client Sample ID: DUP-2 — Lab Sample ID: 240-19826-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	6200		200		ug/L	200		8260B	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 240-19826-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.1		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	2.5		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 240-19826-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	240		8.0		ug/L	8		8260B	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 240-19826-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.7		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	1.3		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-19826-25

No Detections

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MB-2

Lab Sample ID: 240-19826-1

Date Collected: 01/08/13 13:18

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0		ug/L			01/16/13 13:35	5
Bromobenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
Bromochloromethane	<5.0		5.0		ug/L			01/16/13 13:35	5
Bromodichloromethane	<5.0		5.0		ug/L			01/16/13 13:35	5
Bromoform	<5.0		5.0		ug/L			01/16/13 13:35	5
Bromomethane	<5.0		5.0		ug/L			01/16/13 13:35	5
Carbon tetrachloride	<5.0		5.0		ug/L			01/16/13 13:35	5
Chlorobenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
Chlorodibromomethane	<5.0		5.0		ug/L			01/16/13 13:35	5
Chloroethane	<5.0		5.0		ug/L			01/16/13 13:35	5
Chloroform	<5.0		5.0		ug/L			01/16/13 13:35	5
Chloromethane	<5.0		5.0		ug/L			01/16/13 13:35	5
2-Chlorotoluene	<5.0		5.0		ug/L			01/16/13 13:35	5
4-Chlorotoluene	<5.0		5.0		ug/L			01/16/13 13:35	5
cis-1,2-Dichloroethene	**170**		5.0		ug/L			01/16/13 13:35	5
1,2-Dibromo-3-Chloropropane	<10		10		ug/L			01/16/13 13:35	5
1,2-Dibromoethane	<5.0		5.0		ug/L			01/16/13 13:35	5
Dibromomethane	<5.0		5.0		ug/L			01/16/13 13:35	5
1,2-Dichlorobenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
1,3-Dichlorobenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
1,4-Dichlorobenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
Dichlorodifluoromethane	<5.0		5.0		ug/L			01/16/13 13:35	5
1,1-Dichloroethane	**8.2**		5.0		ug/L			01/16/13 13:35	5
1,2-Dichloroethane	<5.0		5.0		ug/L			01/16/13 13:35	5
1,1-Dichloroethene	**17**		5.0		ug/L			01/16/13 13:35	5
1,2-Dichloropropane	<5.0		5.0		ug/L			01/16/13 13:35	5
1,3-Dichloropropane	<5.0		5.0		ug/L			01/16/13 13:35	5
2,2-Dichloropropane	<5.0		5.0		ug/L			01/16/13 13:35	5
1,1-Dichloropropene	<5.0		5.0		ug/L			01/16/13 13:35	5
1,4-Dioxane	<250		250		ug/L			01/16/13 13:35	5
Ethylbenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
Hexachlorobutadiene	<5.0		5.0		ug/L			01/16/13 13:35	5
Isopropylbenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
Methylene Chloride	<5.0		5.0		ug/L			01/16/13 13:35	5
m-Xylene & p-Xylene	<10		10		ug/L			01/16/13 13:35	5
Naphthalene	<5.0		5.0		ug/L			01/16/13 13:35	5
n-Butylbenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
N-Propylbenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
o-Xylene	<5.0		5.0		ug/L			01/16/13 13:35	5
p-Isopropyltoluene	<5.0		5.0		ug/L			01/16/13 13:35	5
sec-Butylbenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
Styrene	<5.0		5.0		ug/L			01/16/13 13:35	5
tert-Butylbenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
1,1,1,2-Tetrachloroethane	<5.0		5.0		ug/L			01/16/13 13:35	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			01/16/13 13:35	5
Tetrachloroethene	<5.0		5.0		ug/L			01/16/13 13:35	5
Toluene	<5.0		5.0		ug/L			01/16/13 13:35	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			01/16/13 13:35	5
1,2,3-Trichlorobenzene	<5.0		5.0		ug/L			01/16/13 13:35	5

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MB-2

Lab Sample ID: 240-19826-1

Date Collected: 01/08/13 13:18

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
1,1,1-Trichloroethane	<5.0		5.0		ug/L			01/16/13 13:35	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			01/16/13 13:35	5
Trichloroethene	<5.0		5.0		ug/L			01/16/13 13:35	5
Trichlorofluoromethane	<5.0		5.0		ug/L			01/16/13 13:35	5
1,2,3-Trichloropropane	<5.0		5.0		ug/L			01/16/13 13:35	5
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			01/16/13 13:35	5
Vinyl chloride	**71**		5.0		ug/L			01/16/13 13:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*66 - 117*		*01/16/13 13:35*	*5*
Dibromofluoromethane (Surr)	*102*		*75 - 121*		*01/16/13 13:35*	*5*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 129*		*01/16/13 13:35*	*5*
Toluene-d8 (Surr)	*92*		*74 - 115*		*01/16/13 13:35*	*5*

Client Sample ID: SEEP-H

Lab Sample ID: 240-19826-2

Date Collected: 01/08/13 13:30

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		20		ug/L			01/17/13 19:23	20
Bromobenzene	<20		20		ug/L			01/17/13 19:23	20
Bromochloromethane	<20		20		ug/L			01/17/13 19:23	20
Bromodichloromethane	<20		20		ug/L			01/17/13 19:23	20
Bromoform	<20		20		ug/L			01/17/13 19:23	20
Bromomethane	<20		20		ug/L			01/17/13 19:23	20
Carbon tetrachloride	<20		20		ug/L			01/17/13 19:23	20
Chlorobenzene	<20		20		ug/L			01/17/13 19:23	20
Chlorodibromomethane	<20		20		ug/L			01/17/13 19:23	20
Chloroethane	<20		20		ug/L			01/17/13 19:23	20
Chloroform	<20		20		ug/L			01/17/13 19:23	20
Chloromethane	<20		20		ug/L			01/17/13 19:23	20
2-Chlorotoluene	<20		20		ug/L			01/17/13 19:23	20
4-Chlorotoluene	<20		20		ug/L			01/17/13 19:23	20
cis-1,2-Dichloroethene	**47**		20		ug/L			01/17/13 19:23	20
1,2-Dibromo-3-Chloropropane	<40		40		ug/L			01/17/13 19:23	20
1,2-Dibromoethane	<20		20		ug/L			01/17/13 19:23	20
Dibromomethane	<20		20		ug/L			01/17/13 19:23	20
1,2-Dichlorobenzene	<20		20		ug/L			01/17/13 19:23	20
1,3-Dichlorobenzene	<20		20		ug/L			01/17/13 19:23	20
1,4-Dichlorobenzene	<20		20		ug/L			01/17/13 19:23	20
Dichlorodifluoromethane	<20		20		ug/L			01/17/13 19:23	20
1,1-Dichloroethane	<20		20		ug/L			01/17/13 19:23	20
1,2-Dichloroethane	<20		20		ug/L			01/17/13 19:23	20
1,1-Dichloroethene	**84**		20		ug/L			01/17/13 19:23	20
1,2-Dichloropropane	<20		20		ug/L			01/17/13 19:23	20
1,3-Dichloropropane	<20		20		ug/L			01/17/13 19:23	20
2,2-Dichloropropane	<20		20		ug/L			01/17/13 19:23	20
1,1-Dichloropropene	<20		20		ug/L			01/17/13 19:23	20
1,4-Dioxane	<1000		1000		ug/L			01/17/13 19:23	20
Ethylbenzene	<20		20		ug/L			01/17/13 19:23	20
Hexachlorobutadiene	<20		20		ug/L			01/17/13 19:23	20
Isopropylbenzene	<20		20		ug/L			01/17/13 19:23	20
Methylene Chloride	<20		20		ug/L			01/17/13 19:23	20
m-Xylene & p-Xylene	<40		40		ug/L			01/17/13 19:23	20
Naphthalene	<20		20		ug/L			01/17/13 19:23	20
n-Butylbenzene	<20		20		ug/L			01/17/13 19:23	20
N-Propylbenzene	<20		20		ug/L			01/17/13 19:23	20
o-Xylene	<20		20		ug/L			01/17/13 19:23	20
p-Isopropyltoluene	<20		20		ug/L			01/17/13 19:23	20
sec-Butylbenzene	<20		20		ug/L			01/17/13 19:23	20
Styrene	<20		20		ug/L			01/17/13 19:23	20
tert-Butylbenzene	<20		20		ug/L			01/17/13 19:23	20
1,1,1,2-Tetrachloroethane	<20		20		ug/L			01/17/13 19:23	20
1,1,2,2-Tetrachloroethane	<20		20		ug/L			01/17/13 19:23	20
Tetrachloroethene	<20		20		ug/L			01/17/13 19:23	20
Toluene	<20		20		ug/L			01/17/13 19:23	20
trans-1,2-Dichloroethene	<20		20		ug/L			01/17/13 19:23	20
1,2,3-Trichlorobenzene	<20		20		ug/L			01/17/13 19:23	20

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: SEEP-H

Lab Sample ID: 240-19826-2

Date Collected: 01/08/13 13:30

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<20		20		ug/L			01/17/13 19:23	20
1,1,1-Trichloroethane	<20		20		ug/L			01/17/13 19:23	20
1,1,2-Trichloroethane	<20		20		ug/L			01/17/13 19:23	20
Trichloroethene	**610**		20		ug/L			01/17/13 19:23	20
Trichlorofluoromethane	<20		20		ug/L			01/17/13 19:23	20
1,2,3-Trichloropropane	<20		20		ug/L			01/17/13 19:23	20
1,2,4-Trimethylbenzene	<20		20		ug/L			01/17/13 19:23	20
1,3,5-Trimethylbenzene	<20		20		ug/L			01/17/13 19:23	20
Vinyl chloride	<20		20		ug/L			01/17/13 19:23	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*66 - 117*		*01/17/13 19:23*	*20*
Dibromofluoromethane (Surr)	*110*		*75 - 121*		*01/17/13 19:23*	*20*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 129*		*01/17/13 19:23*	*20*
Toluene-d8 (Surr)	*96*		*74 - 115*		*01/17/13 19:23*	*20*

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: SEEP-G

Lab Sample ID: 240-19826-3

Date Collected: 01/08/13 13:45
Date Received: 01/12/13 10:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 17:51	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 17:51	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 17:51	1
Bromoform	<1.0		1.0		ug/L			01/16/13 17:51	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 17:51	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 17:51	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 17:51	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 17:51	1
Chloroform	<1.0		1.0		ug/L			01/16/13 17:51	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 17:51	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 17:51	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 17:51	1
cis-1,2-Dichloroethene	**11**		1.0		ug/L			01/16/13 17:51	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 17:51	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 17:51	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 17:51	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 17:51	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 17:51	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 17:51	1
1,1-Dichloroethene	**2.2**		1.0		ug/L			01/16/13 17:51	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 17:51	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 17:51	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 17:51	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 17:51	1
1,4-Dioxane	<50		50		ug/L			01/16/13 17:51	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 17:51	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 17:51	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 17:51	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 17:51	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 17:51	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 17:51	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
Styrene	<1.0		1.0		ug/L			01/16/13 17:51	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 17:51	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 17:51	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 17:51	1
Toluene	<1.0		1.0		ug/L			01/16/13 17:51	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 17:51	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 17:51	1

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: SEEP-G

Lab Sample ID: 240-19826-3

Date Collected: 01/08/13 13:45

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 17:51	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 17:51	1
Trichloroethene	**4.8**		1.0		ug/L			01/16/13 17:51	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 17:51	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 17:51	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 17:51	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*66 - 117*		*01/16/13 17:51*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 121*		*01/16/13 17:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 129*		*01/16/13 17:51*	*1*
Toluene-d8 (Surr)	*93*		*74 - 115*		*01/16/13 17:51*	*1*

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: SEEP-2

Lab Sample ID: 240-19826-4

Date Collected: 01/08/13 13:55
Matrix: Water
Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 18:12	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 18:12	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 18:12	1
Bromoform	<1.0		1.0		ug/L			01/16/13 18:12	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 18:12	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 18:12	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 18:12	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 18:12	1
Chloroform	<1.0		1.0		ug/L			01/16/13 18:12	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 18:12	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 18:12	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 18:12	1
cis-1,2-Dichloroethene	**21**		1.0		ug/L			01/16/13 18:12	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 18:12	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 18:12	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 18:12	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 18:12	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 18:12	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 18:12	1
1,1-Dichloroethene	**4.6**		1.0		ug/L			01/16/13 18:12	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 18:12	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 18:12	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 18:12	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 18:12	1
1,4-Dioxane	<50		50		ug/L			01/16/13 18:12	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 18:12	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 18:12	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 18:12	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 18:12	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 18:12	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 18:12	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
Styrene	<1.0		1.0		ug/L			01/16/13 18:12	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 18:12	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 18:12	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 18:12	1
Toluene	<1.0		1.0		ug/L			01/16/13 18:12	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 18:12	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:12	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: SEEP-2

Lab Sample ID: 240-19826-4

Date Collected: 01/08/13 13:55

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 18:12	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 18:12	1
Trichloroethene	**26**		1.0		ug/L			01/16/13 18:12	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 18:12	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 18:12	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 18:12	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*66 - 117*		*01/16/13 18:12*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 121*		*01/16/13 18:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 129*		*01/16/13 18:12*	*1*
Toluene-d8 (Surr)	*93*		*74 - 115*		*01/16/13 18:12*	*1*

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: SEEP-I

Lab Sample ID: 240-19826-5

Date Collected: 01/08/13 14:08
Matrix: Water
Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 18:34	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 18:34	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 18:34	1
Bromoform	<1.0		1.0		ug/L			01/16/13 18:34	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 18:34	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 18:34	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 18:34	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 18:34	1
Chloroform	<1.0		1.0		ug/L			01/16/13 18:34	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 18:34	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 18:34	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 18:34	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 18:34	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 18:34	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 18:34	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 18:34	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 18:34	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 18:34	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 18:34	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/16/13 18:34	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 18:34	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 18:34	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 18:34	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 18:34	1
1,4-Dioxane	<50		50		ug/L			01/16/13 18:34	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 18:34	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 18:34	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 18:34	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 18:34	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 18:34	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 18:34	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
Styrene	<1.0		1.0		ug/L			01/16/13 18:34	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 18:34	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 18:34	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 18:34	1
Toluene	<1.0		1.0		ug/L			01/16/13 18:34	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 18:34	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:34	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: SEEP-I

Lab Sample ID: 240-19826-5

Date Collected: 01/08/13 14:08
Matrix: Water
Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 18:34	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 18:34	1
Trichloroethene	<1.0		1.0		ug/L			01/16/13 18:34	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 18:34	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 18:34	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 18:34	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*66 - 117*		*01/16/13 18:34*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 121*		*01/16/13 18:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 129*		*01/16/13 18:34*	*1*
Toluene-d8 (Surr)	*90*		*74 - 115*		*01/16/13 18:34*	*1*

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: SEEP-L

Lab Sample ID: 240-19826-6

Date Collected: 01/08/13 14:18
Matrix: Water
Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 18:55	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 18:55	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 18:55	1
Bromoform	<1.0		1.0		ug/L			01/16/13 18:55	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 18:55	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 18:55	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 18:55	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 18:55	1
Chloroform	<1.0		1.0		ug/L			01/16/13 18:55	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 18:55	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 18:55	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 18:55	1
cis-1,2-Dichloroethene	**5.9**		1.0		ug/L			01/16/13 18:55	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 18:55	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 18:55	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 18:55	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 18:55	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 18:55	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 18:55	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/16/13 18:55	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 18:55	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 18:55	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 18:55	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 18:55	1
1,4-Dioxane	<50		50		ug/L			01/16/13 18:55	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 18:55	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 18:55	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 18:55	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 18:55	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 18:55	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 18:55	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
Styrene	<1.0		1.0		ug/L			01/16/13 18:55	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 18:55	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 18:55	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 18:55	1
Toluene	<1.0		1.0		ug/L			01/16/13 18:55	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 18:55	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:55	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: SEEP-L

Lab Sample ID: 240-19826-6

Date Collected: 01/08/13 14:18
Matrix: Water
Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 18:55	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 18:55	1
Trichloroethene	<1.0		1.0		ug/L			01/16/13 18:55	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 18:55	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 18:55	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 18:55	1
Vinyl chloride	**1.3**		1.0		ug/L			01/16/13 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*66 - 117*		*01/16/13 18:55*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 121*		*01/16/13 18:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 129*		*01/16/13 18:55*	*1*
Toluene-d8 (Surr)	*90*		*74 - 115*		*01/16/13 18:55*	*1*

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: SEEP-B
Date Collected: 01/08/13 16:27
Date Received: 01/12/13 10:00

Lab Sample ID: 240-19826-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 19:17	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 19:17	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 19:17	1
Bromoform	<1.0		1.0		ug/L			01/16/13 19:17	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 19:17	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 19:17	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 19:17	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 19:17	1
Chloroform	<1.0		1.0		ug/L			01/16/13 19:17	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 19:17	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 19:17	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 19:17	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 19:17	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 19:17	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 19:17	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 19:17	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 19:17	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 19:17	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 19:17	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/16/13 19:17	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 19:17	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 19:17	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 19:17	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 19:17	1
1,4-Dioxane	<50		50		ug/L			01/16/13 19:17	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 19:17	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 19:17	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 19:17	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 19:17	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 19:17	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 19:17	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
Styrene	<1.0		1.0		ug/L			01/16/13 19:17	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 19:17	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 19:17	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 19:17	1
Toluene	<1.0		1.0		ug/L			01/16/13 19:17	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 19:17	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:17	1

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: SEEP-B
Date Collected: 01/08/13 16:27
Date Received: 01/12/13 10:00

Lab Sample ID: 240-19826-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 19:17	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 19:17	1
Trichloroethene	<1.0		1.0		ug/L			01/16/13 19:17	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 19:17	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 19:17	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 19:17	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*66 - 117*		*01/16/13 19:17*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 121*		*01/16/13 19:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 129*		*01/16/13 19:17*	*1*
Toluene-d8 (Surr)	*89*		*74 - 115*		*01/16/13 19:17*	*1*

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: DUP-1
Date Collected: 01/08/13 12:00
Date Received: 01/12/13 10:00

Lab Sample ID: 240-19826-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		20		ug/L			01/17/13 19:44	20
Bromobenzene	<20		20		ug/L			01/17/13 19:44	20
Bromochloromethane	<20		20		ug/L			01/17/13 19:44	20
Bromodichloromethane	<20		20		ug/L			01/17/13 19:44	20
Bromoform	<20		20		ug/L			01/17/13 19:44	20
Bromomethane	<20		20		ug/L			01/17/13 19:44	20
Carbon tetrachloride	<20		20		ug/L			01/17/13 19:44	20
Chlorobenzene	<20		20		ug/L			01/17/13 19:44	20
Chlorodibromomethane	<20		20		ug/L			01/17/13 19:44	20
Chloroethane	<20		20		ug/L			01/17/13 19:44	20
Chloroform	<20		20		ug/L			01/17/13 19:44	20
Chloromethane	<20		20		ug/L			01/17/13 19:44	20
2-Chlorotoluene	<20		20		ug/L			01/17/13 19:44	20
4-Chlorotoluene	<20		20		ug/L			01/17/13 19:44	20
cis-1,2-Dichloroethene	**47**		20		ug/L			01/17/13 19:44	20
1,2-Dibromo-3-Chloropropane	<40		40		ug/L			01/17/13 19:44	20
1,2-Dibromoethane	<20		20		ug/L			01/17/13 19:44	20
Dibromomethane	<20		20		ug/L			01/17/13 19:44	20
1,2-Dichlorobenzene	<20		20		ug/L			01/17/13 19:44	20
1,3-Dichlorobenzene	<20		20		ug/L			01/17/13 19:44	20
1,4-Dichlorobenzene	<20		20		ug/L			01/17/13 19:44	20
Dichlorodifluoromethane	<20		20		ug/L			01/17/13 19:44	20
1,1-Dichloroethane	<20		20		ug/L			01/17/13 19:44	20
1,2-Dichloroethane	<20		20		ug/L			01/17/13 19:44	20
1,1-Dichloroethene	**84**		20		ug/L			01/17/13 19:44	20
1,2-Dichloropropane	<20		20		ug/L			01/17/13 19:44	20
1,3-Dichloropropane	<20		20		ug/L			01/17/13 19:44	20
2,2-Dichloropropane	<20		20		ug/L			01/17/13 19:44	20
1,1-Dichloropropene	<20		20		ug/L			01/17/13 19:44	20
1,4-Dioxane	<1000		1000		ug/L			01/17/13 19:44	20
Ethylbenzene	<20		20		ug/L			01/17/13 19:44	20
Hexachlorobutadiene	<20		20		ug/L			01/17/13 19:44	20
Isopropylbenzene	<20		20		ug/L			01/17/13 19:44	20
Methylene Chloride	<20		20		ug/L			01/17/13 19:44	20
m-Xylene & p-Xylene	<40		40		ug/L			01/17/13 19:44	20
Naphthalene	<20		20		ug/L			01/17/13 19:44	20
n-Butylbenzene	<20		20		ug/L			01/17/13 19:44	20
N-Propylbenzene	<20		20		ug/L			01/17/13 19:44	20
o-Xylene	<20		20		ug/L			01/17/13 19:44	20
p-Isopropyltoluene	<20		20		ug/L			01/17/13 19:44	20
sec-Butylbenzene	<20		20		ug/L			01/17/13 19:44	20
Styrene	<20		20		ug/L			01/17/13 19:44	20
tert-Butylbenzene	<20		20		ug/L			01/17/13 19:44	20
1,1,1,2-Tetrachloroethane	<20		20		ug/L			01/17/13 19:44	20
1,1,2,2-Tetrachloroethane	<20		20		ug/L			01/17/13 19:44	20
Tetrachloroethene	<20		20		ug/L			01/17/13 19:44	20
Toluene	<20		20		ug/L			01/17/13 19:44	20
trans-1,2-Dichloroethene	<20		20		ug/L			01/17/13 19:44	20
1,2,3-Trichlorobenzene	<20		20		ug/L			01/17/13 19:44	20

Client Sample ID: DUP-1

Lab Sample ID: 240-19826-8

Date Collected: 01/08/13 12:00

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<20		20		ug/L			01/17/13 19:44	20
1,1,1-Trichloroethane	<20		20		ug/L			01/17/13 19:44	20
1,1,2-Trichloroethane	<20		20		ug/L			01/17/13 19:44	20
Trichloroethene	**630**		20		ug/L			01/17/13 19:44	20
Trichlorofluoromethane	<20		20		ug/L			01/17/13 19:44	20
1,2,3-Trichloropropane	<20		20		ug/L			01/17/13 19:44	20
1,2,4-Trimethylbenzene	<20		20		ug/L			01/17/13 19:44	20
1,3,5-Trimethylbenzene	<20		20		ug/L			01/17/13 19:44	20
Vinyl chloride	<20		20		ug/L			01/17/13 19:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*66 - 117*		*01/17/13 19:44*	*20*
Dibromofluoromethane (Surr)	*106*		*75 - 121*		*01/17/13 19:44*	*20*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 129*		*01/17/13 19:44*	*20*
Toluene-d8 (Surr)	*94*		*74 - 115*		*01/17/13 19:44*	*20*

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MB-3

Lab Sample ID: 240-19826-9

Date Collected: 01/08/13 15:25

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 20:00	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 20:00	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 20:00	1
Bromoform	<1.0		1.0		ug/L			01/16/13 20:00	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 20:00	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 20:00	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 20:00	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 20:00	1
Chloroform	<1.0		1.0		ug/L			01/16/13 20:00	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 20:00	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 20:00	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 20:00	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 20:00	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 20:00	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 20:00	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 20:00	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 20:00	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 20:00	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 20:00	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/16/13 20:00	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 20:00	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 20:00	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 20:00	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 20:00	1
1,4-Dioxane	<50		50		ug/L			01/16/13 20:00	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 20:00	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 20:00	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 20:00	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 20:00	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 20:00	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 20:00	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
Styrene	<1.0		1.0		ug/L			01/16/13 20:00	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 20:00	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 20:00	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 20:00	1
Toluene	<1.0		1.0		ug/L			01/16/13 20:00	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 20:00	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:00	1

Client Sample ID: MB-3

Lab Sample ID: 240-19826-9

Date Collected: 01/08/13 15:25

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 20:00	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 20:00	1
Trichloroethene	<1.0		1.0		ug/L			01/16/13 20:00	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 20:00	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 20:00	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 20:00	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*66 - 117*		*01/16/13 20:00*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 121*		*01/16/13 20:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 129*		*01/16/13 20:00*	*1*
Toluene-d8 (Surr)	*91*		*74 - 115*		*01/16/13 20:00*	*1*

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MB15

Lab Sample ID: 240-19826-10

Date Collected: 01/08/13 15:38

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 20:21	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 20:21	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 20:21	1
Bromoform	<1.0		1.0		ug/L			01/16/13 20:21	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 20:21	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 20:21	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 20:21	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 20:21	1
Chloroform	<1.0		1.0		ug/L			01/16/13 20:21	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 20:21	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 20:21	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 20:21	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 20:21	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 20:21	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 20:21	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 20:21	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 20:21	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 20:21	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 20:21	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/16/13 20:21	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 20:21	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 20:21	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 20:21	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 20:21	1
1,4-Dioxane	<50		50		ug/L			01/16/13 20:21	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 20:21	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 20:21	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 20:21	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 20:21	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 20:21	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 20:21	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
Styrene	<1.0		1.0		ug/L			01/16/13 20:21	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 20:21	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 20:21	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 20:21	1
Toluene	<1.0		1.0		ug/L			01/16/13 20:21	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 20:21	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:21	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MB15

Lab Sample ID: 240-19826-10

Date Collected: 01/08/13 15:38
Matrix: Water
Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 20:21	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 20:21	1
Trichloroethene	<1.0		1.0		ug/L			01/16/13 20:21	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 20:21	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 20:21	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 20:21	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*66 - 117*		*01/16/13 20:21*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 121*		*01/16/13 20:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 129*		*01/16/13 20:21*	*1*
Toluene-d8 (Surr)	*91*		*74 - 115*		*01/16/13 20:21*	*1*

Client Sample ID: MB-5
Date Collected: 01/08/13 15:59
Date Received: 01/12/13 10:00

Lab Sample ID: 240-19826-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 20:42	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 20:42	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 20:42	1
Bromoform	<1.0		1.0		ug/L			01/16/13 20:42	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 20:42	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 20:42	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 20:42	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 20:42	1
Chloroform	<1.0		1.0		ug/L			01/16/13 20:42	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 20:42	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 20:42	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 20:42	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 20:42	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 20:42	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 20:42	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 20:42	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 20:42	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 20:42	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 20:42	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/16/13 20:42	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 20:42	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 20:42	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 20:42	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 20:42	1
1,4-Dioxane	<50		50		ug/L			01/16/13 20:42	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 20:42	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 20:42	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 20:42	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 20:42	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 20:42	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 20:42	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
Styrene	<1.0		1.0		ug/L			01/16/13 20:42	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 20:42	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 20:42	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 20:42	1
Toluene	<1.0		1.0		ug/L			01/16/13 20:42	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 20:42	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:42	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MB-5

Lab Sample ID: 240-19826-11

Date Collected: 01/08/13 15:59
Matrix: Water
Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 20:42	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 20:42	1
Trichloroethene	<1.0		1.0		ug/L			01/16/13 20:42	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 20:42	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 20:42	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 20:42	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*66 - 117*		*01/16/13 20:42*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 121*		*01/16/13 20:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 129*		*01/16/13 20:42*	*1*
Toluene-d8 (Surr)	*92*		*74 - 115*		*01/16/13 20:42*	*1*

Client Sample ID: MB-16

Lab Sample ID: 240-19826-12

Date Collected: 01/08/13 16:12

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 21:03	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 21:03	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 21:03	1
Bromoform	<1.0		1.0		ug/L			01/16/13 21:03	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 21:03	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 21:03	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 21:03	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 21:03	1
Chloroform	<1.0		1.0		ug/L			01/16/13 21:03	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 21:03	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 21:03	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 21:03	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 21:03	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 21:03	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 21:03	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 21:03	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 21:03	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 21:03	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 21:03	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/16/13 21:03	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 21:03	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 21:03	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 21:03	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 21:03	1
1,4-Dioxane	<50		50		ug/L			01/16/13 21:03	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 21:03	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 21:03	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 21:03	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 21:03	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 21:03	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 21:03	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
Styrene	<1.0		1.0		ug/L			01/16/13 21:03	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 21:03	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 21:03	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 21:03	1
Toluene	<1.0		1.0		ug/L			01/16/13 21:03	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 21:03	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 21:03	1

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MB-16

Lab Sample ID: 240-19826-12

Date Collected: 01/08/13 16:12

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 21:03	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 21:03	1
Trichloroethene	<1.0		1.0		ug/L			01/16/13 21:03	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 21:03	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 21:03	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 21:03	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*66 - 117*		*01/16/13 21:03*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 121*		*01/16/13 21:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 129*		*01/16/13 21:03*	*1*
Toluene-d8 (Surr)	*91*		*74 - 115*		*01/16/13 21:03*	*1*

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MW-28

Lab Sample ID: 240-19826-13

Date Collected: 01/09/13 11:25
Matrix: Water
Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<2.0		2.0		ug/L			01/18/13 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*74 - 120*		*01/18/13 14:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 19:37	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 19:37	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 19:37	1
Bromoform	<1.0		1.0		ug/L			01/16/13 19:37	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 19:37	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 19:37	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 19:37	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 19:37	1
Chloroform	<1.0		1.0		ug/L			01/16/13 19:37	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 19:37	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 19:37	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 19:37	1
cis-1,2-Dichloroethene	**4.7**		1.0		ug/L			01/16/13 19:37	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 19:37	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 19:37	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 19:37	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 19:37	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 19:37	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 19:37	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/16/13 19:37	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 19:37	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 19:37	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 19:37	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 19:37	1
1,4-Dioxane	<50		50		ug/L			01/16/13 19:37	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 19:37	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 19:37	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 19:37	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 19:37	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 19:37	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 19:37	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
Styrene	<1.0		1.0		ug/L			01/16/13 19:37	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 19:37	1

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MW-28
Date Collected: 01/09/13 11:25
Date Received: 01/12/13 10:00

Lab Sample ID: 240-19826-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 19:37	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 19:37	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 19:37	1
Toluene	<1.0		1.0		ug/L			01/16/13 19:37	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 19:37	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 19:37	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 19:37	1
Trichloroethene	<1.0		1.0		ug/L			01/16/13 19:37	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 19:37	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 19:37	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 19:37	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*66 - 117*		*01/16/13 19:37*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 121*		*01/16/13 19:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 129*		*01/16/13 19:37*	*1*
Toluene-d8 (Surr)	*85*		*74 - 115*		*01/16/13 19:37*	*1*

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MW-27

Lab Sample ID: 240-19826-14

Date Collected: 01/09/13 12:16
Matrix: Water
Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<2.0		2.0		ug/L			01/18/13 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*74 - 120*		*01/18/13 15:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 19:59	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 19:59	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 19:59	1
Bromoform	<1.0		1.0		ug/L			01/16/13 19:59	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 19:59	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 19:59	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 19:59	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 19:59	1
Chloroform	<1.0		1.0		ug/L			01/16/13 19:59	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 19:59	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 19:59	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 19:59	1
cis-1,2-Dichloroethene	**9.2**		1.0		ug/L			01/16/13 19:59	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 19:59	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 19:59	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 19:59	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 19:59	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 19:59	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 19:59	1
1,1-Dichloroethene	**2.9**		1.0		ug/L			01/16/13 19:59	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 19:59	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 19:59	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 19:59	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 19:59	1
1,4-Dioxane	<50		50		ug/L			01/16/13 19:59	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 19:59	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 19:59	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 19:59	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 19:59	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 19:59	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 19:59	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
Styrene	<1.0		1.0		ug/L			01/16/13 19:59	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 19:59	1

Client Sample ID: MW-27

Lab Sample ID: 240-19826-14

Date Collected: 01/09/13 12:16

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 19:59	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 19:59	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 19:59	1
Toluene	<1.0		1.0		ug/L			01/16/13 19:59	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 19:59	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 19:59	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 19:59	1
Trichloroethene	**13**		1.0		ug/L			01/16/13 19:59	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 19:59	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 19:59	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 19:59	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*66 - 117*		*01/16/13 19:59*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 121*		*01/16/13 19:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 129*		*01/16/13 19:59*	*1*
Toluene-d8 (Surr)	*91*		*74 - 115*		*01/16/13 19:59*	*1*

Client Sample ID: MW-25

Lab Sample ID: 240-19826-15

Date Collected: 01/09/13 17:03

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<25		25		ug/L			01/17/13 13:43	12.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*74 - 120*		*01/17/13 13:43*	*12.5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<130		130		ug/L			01/17/13 20:05	125
Bromobenzene	<130		130		ug/L			01/17/13 20:05	125
Bromochloromethane	<130		130		ug/L			01/17/13 20:05	125
Bromodichloromethane	<130		130		ug/L			01/17/13 20:05	125
Bromoform	<130		130		ug/L			01/17/13 20:05	125
Bromomethane	<130		130		ug/L			01/17/13 20:05	125
Carbon tetrachloride	<130		130		ug/L			01/17/13 20:05	125
Chlorobenzene	<130		130		ug/L			01/17/13 20:05	125
Chlorodibromomethane	<130		130		ug/L			01/17/13 20:05	125
Chloroethane	<130		130		ug/L			01/17/13 20:05	125
Chloroform	<130		130		ug/L			01/17/13 20:05	125
Chloromethane	<130		130		ug/L			01/17/13 20:05	125
2-Chlorotoluene	<130		130		ug/L			01/17/13 20:05	125
4-Chlorotoluene	<130		130		ug/L			01/17/13 20:05	125
cis-1,2-Dichloroethene	**860**		130		ug/L			01/17/13 20:05	125
1,2-Dibromo-3-Chloropropane	<250		250		ug/L			01/17/13 20:05	125
1,2-Dibromoethane	<130		130		ug/L			01/17/13 20:05	125
Dibromomethane	<130		130		ug/L			01/17/13 20:05	125
1,2-Dichlorobenzene	<130		130		ug/L			01/17/13 20:05	125
1,3-Dichlorobenzene	<130		130		ug/L			01/17/13 20:05	125
1,4-Dichlorobenzene	<130		130		ug/L			01/17/13 20:05	125
Dichlorodifluoromethane	<130		130		ug/L			01/17/13 20:05	125
1,1-Dichloroethane	<130		130		ug/L			01/17/13 20:05	125
1,2-Dichloroethane	<130		130		ug/L			01/17/13 20:05	125
1,1-Dichloroethene	<130		130		ug/L			01/17/13 20:05	125
1,2-Dichloropropane	<130		130		ug/L			01/17/13 20:05	125
1,3-Dichloropropane	<130		130		ug/L			01/17/13 20:05	125
2,2-Dichloropropane	<130		130		ug/L			01/17/13 20:05	125
1,1-Dichloropropene	<130		130		ug/L			01/17/13 20:05	125
1,4-Dioxane	<6300		6300		ug/L			01/17/13 20:05	125
Ethylbenzene	<130		130		ug/L			01/17/13 20:05	125
Hexachlorobutadiene	<130		130		ug/L			01/17/13 20:05	125
Isopropylbenzene	<130		130		ug/L			01/17/13 20:05	125
Methylene Chloride	<130		130		ug/L			01/17/13 20:05	125
m-Xylene & p-Xylene	<250		250		ug/L			01/17/13 20:05	125
Naphthalene	<130		130		ug/L			01/17/13 20:05	125
n-Butylbenzene	<130		130		ug/L			01/17/13 20:05	125
N-Propylbenzene	<130		130		ug/L			01/17/13 20:05	125
o-Xylene	<130		130		ug/L			01/17/13 20:05	125
p-Isopropyltoluene	<130		130		ug/L			01/17/13 20:05	125
sec-Butylbenzene	<130		130		ug/L			01/17/13 20:05	125
Styrene	<130		130		ug/L			01/17/13 20:05	125
tert-Butylbenzene	<130		130		ug/L			01/17/13 20:05	125

Client Sample ID: MW-25

Lab Sample ID: 240-19826-15

Date Collected: 01/09/13 17:03

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<130		130		ug/L			01/17/13 20:05	125
1,1,2,2-Tetrachloroethane	<130		130		ug/L			01/17/13 20:05	125
Tetrachloroethene	<130		130		ug/L			01/17/13 20:05	125
Toluene	<130		130		ug/L			01/17/13 20:05	125
trans-1,2-Dichloroethene	<130		130		ug/L			01/17/13 20:05	125
1,2,3-Trichlorobenzene	<130		130		ug/L			01/17/13 20:05	125
1,2,4-Trichlorobenzene	<130		130		ug/L			01/17/13 20:05	125
1,1,1-Trichloroethane	<130		130		ug/L			01/17/13 20:05	125
1,1,2-Trichloroethane	<130		130		ug/L			01/17/13 20:05	125
Trichloroethene	**4300**		130		ug/L			01/17/13 20:05	125
Trichlorofluoromethane	<130		130		ug/L			01/17/13 20:05	125
1,2,3-Trichloropropane	<130		130		ug/L			01/17/13 20:05	125
1,2,4-Trimethylbenzene	<130		130		ug/L			01/17/13 20:05	125
1,3,5-Trimethylbenzene	<130		130		ug/L			01/17/13 20:05	125
Vinyl chloride	<130		130		ug/L			01/17/13 20:05	125

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*66 - 117*		*01/17/13 20:05*	*125*
Dibromofluoromethane (Surr)	*107*		*75 - 121*		*01/17/13 20:05*	*125*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 129*		*01/17/13 20:05*	*125*
Toluene-d8 (Surr)	*95*		*74 - 115*		*01/17/13 20:05*	*125*

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: EB-1

Lab Sample ID: 240-19826-16

Date Collected: 01/10/13 08:45
Date Received: 01/12/13 10:00

Matrix: WQ

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 20:44	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 20:44	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 20:44	1
Bromoform	<1.0		1.0		ug/L			01/16/13 20:44	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 20:44	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 20:44	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 20:44	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 20:44	1
Chloroform	**12**		1.0		ug/L			01/16/13 20:44	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 20:44	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 20:44	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 20:44	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 20:44	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 20:44	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 20:44	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 20:44	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 20:44	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 20:44	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 20:44	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/16/13 20:44	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 20:44	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 20:44	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 20:44	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 20:44	1
1,4-Dioxane	<50		50		ug/L			01/16/13 20:44	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 20:44	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
Methylene Chloride	**3.5**		1.0		ug/L			01/16/13 20:44	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 20:44	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 20:44	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 20:44	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 20:44	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
Styrene	<1.0		1.0		ug/L			01/16/13 20:44	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 20:44	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 20:44	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 20:44	1
Toluene	<1.0		1.0		ug/L			01/16/13 20:44	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 20:44	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:44	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: EB-1

Lab Sample ID: 240-19826-16

Date Collected: 01/10/13 08:45

Matrix: WQ

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 20:44	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 20:44	1
Trichloroethene	<1.0		1.0		ug/L			01/16/13 20:44	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 20:44	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 20:44	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 20:44	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*66 - 117*		*01/16/13 20:44*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 121*		*01/16/13 20:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 129*		*01/16/13 20:44*	*1*
Toluene-d8 (Surr)	*83*		*74 - 115*		*01/16/13 20:44*	*1*

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MW-20

Lab Sample ID: 240-19826-17

Date Collected: 01/10/13 13:12
Date Received: 01/12/13 10:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<2.0		2.0		ug/L			01/18/13 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*74 - 120*		*01/18/13 15:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Bromobenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Bromochloromethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Bromodichloromethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Bromoform	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Bromomethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Carbon tetrachloride	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Chlorobenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Chlorodibromomethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Chloroethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Chloroform	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Chloromethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
2-Chlorotoluene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
4-Chlorotoluene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
cis-1,2-Dichloroethene	**320**		9.1		ug/L			01/16/13 21:06	9.091
1,2-Dibromo-3-Chloropropane	<18		18		ug/L			01/16/13 21:06	9.091
1,2-Dibromoethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Dibromomethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,2-Dichlorobenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,3-Dichlorobenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,4-Dichlorobenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Dichlorodifluoromethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,1-Dichloroethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,2-Dichloroethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,1-Dichloroethene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,2-Dichloropropane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,3-Dichloropropane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
2,2-Dichloropropane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,1-Dichloropropene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,4-Dioxane	<450		450		ug/L			01/16/13 21:06	9.091
Ethylbenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Hexachlorobutadiene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Isopropylbenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Methylene Chloride	<9.1		9.1		ug/L			01/16/13 21:06	9.091
m-Xylene & p-Xylene	<18		18		ug/L			01/16/13 21:06	9.091
Naphthalene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
n-Butylbenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
N-Propylbenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
o-Xylene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
p-Isopropyltoluene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
sec-Butylbenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Styrene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
tert-Butylbenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MW-20
Date Collected: 01/10/13 13:12
Date Received: 01/12/13 10:00

Lab Sample ID: 240-19826-17
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,1,2,2-Tetrachloroethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Tetrachloroethene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Toluene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
trans-1,2-Dichloroethene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,2,3-Trichlorobenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,2,4-Trichlorobenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,1,1-Trichloroethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,1,2-Trichloroethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Trichloroethene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Trichlorofluoromethane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,2,3-Trichloropropane	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,2,4-Trimethylbenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
1,3,5-Trimethylbenzene	<9.1		9.1		ug/L			01/16/13 21:06	9.091
Vinyl chloride	<9.1		9.1		ug/L			01/16/13 21:06	9.091

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*66 - 117*		*01/16/13 21:06*	*9.091*
Dibromofluoromethane (Surr)	*101*		*75 - 121*		*01/16/13 21:06*	*9.091*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 129*		*01/16/13 21:06*	*9.091*
Toluene-d8 (Surr)	*92*		*74 - 115*		*01/16/13 21:06*	*9.091*

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MW-22
Date Collected: 01/10/13 16:33
Date Received: 01/12/13 10:00

Lab Sample ID: 240-19826-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/17/13 15:50	1
Bromobenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
Bromochloromethane	<1.0		1.0		ug/L			01/17/13 15:50	1
Bromodichloromethane	<1.0		1.0		ug/L			01/17/13 15:50	1
Bromoform	<1.0		1.0		ug/L			01/17/13 15:50	1
Bromomethane	<1.0		1.0		ug/L			01/17/13 15:50	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/17/13 15:50	1
Chlorobenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/17/13 15:50	1
Chloroethane	<1.0		1.0		ug/L			01/17/13 15:50	1
Chloroform	<1.0		1.0		ug/L			01/17/13 15:50	1
Chloromethane	<1.0		1.0		ug/L			01/17/13 15:50	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/17/13 15:50	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/17/13 15:50	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/17/13 15:50	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/17/13 15:50	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/17/13 15:50	1
Dibromomethane	<1.0		1.0		ug/L			01/17/13 15:50	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/17/13 15:50	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/17/13 15:50	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/17/13 15:50	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/17/13 15:50	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/17/13 15:50	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/17/13 15:50	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/17/13 15:50	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/17/13 15:50	1
1,4-Dioxane	<50		50		ug/L			01/17/13 15:50	1
Ethylbenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/17/13 15:50	1
Isopropylbenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
Methylene Chloride	<1.0		1.0		ug/L			01/17/13 15:50	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/17/13 15:50	1
Naphthalene	<1.0		1.0		ug/L			01/17/13 15:50	1
n-Butylbenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
N-Propylbenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
o-Xylene	<1.0		1.0		ug/L			01/17/13 15:50	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/17/13 15:50	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
Styrene	<1.0		1.0		ug/L			01/17/13 15:50	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/17/13 15:50	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/17/13 15:50	1
Tetrachloroethene	<1.0		1.0		ug/L			01/17/13 15:50	1
Toluene	<1.0		1.0		ug/L			01/17/13 15:50	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/17/13 15:50	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/17/13 15:50	1

Client Sample ID: MW-22

Lab Sample ID: 240-19826-18

Date Collected: 01/10/13 16:33

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/17/13 15:50	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/17/13 15:50	1
Trichloroethene	<1.0		1.0		ug/L			01/17/13 15:50	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/17/13 15:50	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/17/13 15:50	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/17/13 15:50	1
Vinyl chloride	<1.0		1.0		ug/L			01/17/13 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*66 - 117*		*01/17/13 15:50*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 121*		*01/17/13 15:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 129*		*01/17/13 15:50*	*1*
Toluene-d8 (Surr)	*95*		*74 - 115*		*01/17/13 15:50*	*1*

Client Sample ID: MW-14

Lab Sample ID: 240-19826-19

Date Collected: 01/09/13 11:55

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<20		20		ug/L			01/18/13 13:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*74 - 120*		*01/18/13 13:24*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<100		100		ug/L			01/17/13 16:11	100
Bromobenzene	<100		100		ug/L			01/17/13 16:11	100
Bromochloromethane	<100		100		ug/L			01/17/13 16:11	100
Bromodichloromethane	<100		100		ug/L			01/17/13 16:11	100
Bromoform	<100		100		ug/L			01/17/13 16:11	100
Bromomethane	<100		100		ug/L			01/17/13 16:11	100
Carbon tetrachloride	<100		100		ug/L			01/17/13 16:11	100
Chlorobenzene	<100		100		ug/L			01/17/13 16:11	100
Chlorodibromomethane	<100		100		ug/L			01/17/13 16:11	100
Chloroethane	<100		100		ug/L			01/17/13 16:11	100
Chloroform	<100		100		ug/L			01/17/13 16:11	100
Chloromethane	<100		100		ug/L			01/17/13 16:11	100
2-Chlorotoluene	<100		100		ug/L			01/17/13 16:11	100
4-Chlorotoluene	<100		100		ug/L			01/17/13 16:11	100
cis-1,2-Dichloroethene	**310**		100		ug/L			01/17/13 16:11	100
1,2-Dibromo-3-Chloropropane	<200		200		ug/L			01/17/13 16:11	100
1,2-Dibromoethane	<100		100		ug/L			01/17/13 16:11	100
Dibromomethane	<100		100		ug/L			01/17/13 16:11	100
1,2-Dichlorobenzene	<100		100		ug/L			01/17/13 16:11	100
1,3-Dichlorobenzene	<100		100		ug/L			01/17/13 16:11	100
1,4-Dichlorobenzene	<100		100		ug/L			01/17/13 16:11	100
Dichlorodifluoromethane	<100		100		ug/L			01/17/13 16:11	100
1,1-Dichloroethane	<100		100		ug/L			01/17/13 16:11	100
1,2-Dichloroethane	<100		100		ug/L			01/17/13 16:11	100
1,1-Dichloroethene	<100		100		ug/L			01/17/13 16:11	100
1,2-Dichloropropane	<100		100		ug/L			01/17/13 16:11	100
1,3-Dichloropropane	<100		100		ug/L			01/17/13 16:11	100
2,2-Dichloropropane	<100		100		ug/L			01/17/13 16:11	100
1,1-Dichloropropene	<100		100		ug/L			01/17/13 16:11	100
1,4-Dioxane	<5000		5000		ug/L			01/17/13 16:11	100
Ethylbenzene	<100		100		ug/L			01/17/13 16:11	100
Hexachlorobutadiene	<100		100		ug/L			01/17/13 16:11	100
Isopropylbenzene	<100		100		ug/L			01/17/13 16:11	100
Methylene Chloride	<100		100		ug/L			01/17/13 16:11	100
m-Xylene & p-Xylene	<200		200		ug/L			01/17/13 16:11	100
Naphthalene	<100		100		ug/L			01/17/13 16:11	100
n-Butylbenzene	<100		100		ug/L			01/17/13 16:11	100
N-Propylbenzene	<100		100		ug/L			01/17/13 16:11	100
o-Xylene	<100		100		ug/L			01/17/13 16:11	100
p-Isopropyltoluene	<100		100		ug/L			01/17/13 16:11	100
sec-Butylbenzene	<100		100		ug/L			01/17/13 16:11	100
Styrene	<100		100		ug/L			01/17/13 16:11	100
tert-Butylbenzene	<100		100		ug/L			01/17/13 16:11	100

Client Sample ID: MW-14

Lab Sample ID: 240-19826-19

Date Collected: 01/09/13 11:55

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<100		100		ug/L			01/17/13 16:11	100
1,1,2,2-Tetrachloroethane	<100		100		ug/L			01/17/13 16:11	100
Tetrachloroethene	<100		100		ug/L			01/17/13 16:11	100
Toluene	<100		100		ug/L			01/17/13 16:11	100
trans-1,2-Dichloroethene	<100		100		ug/L			01/17/13 16:11	100
1,2,3-Trichlorobenzene	<100		100		ug/L			01/17/13 16:11	100
1,2,4-Trichlorobenzene	<100		100		ug/L			01/17/13 16:11	100
1,1,1-Trichloroethane	<100		100		ug/L			01/17/13 16:11	100
1,1,2-Trichloroethane	<100		100		ug/L			01/17/13 16:11	100
Trichloroethene	**3400**		100		ug/L			01/17/13 16:11	100
Trichlorofluoromethane	<100		100		ug/L			01/17/13 16:11	100
1,2,3-Trichloropropane	<100		100		ug/L			01/17/13 16:11	100
1,2,4-Trimethylbenzene	<100		100		ug/L			01/17/13 16:11	100
1,3,5-Trimethylbenzene	<100		100		ug/L			01/17/13 16:11	100
Vinyl chloride	<100		100		ug/L			01/17/13 16:11	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*66 - 117*		*01/17/13 16:11*	*100*
Dibromofluoromethane (Surr)	*107*		*75 - 121*		*01/17/13 16:11*	*100*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 129*		*01/17/13 16:11*	*100*
Toluene-d8 (Surr)	*99*		*74 - 115*		*01/17/13 16:11*	*100*

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MW-19

Lab Sample ID: 240-19826-20

Date Collected: 01/09/13 14:45
Date Received: 01/12/13 10:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<2.0		2.0		ug/L			01/18/13 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*74 - 120*		*01/18/13 15:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<200		200		ug/L			01/17/13 20:27	200
Bromobenzene	<200		200		ug/L			01/17/13 20:27	200
Bromochloromethane	<200		200		ug/L			01/17/13 20:27	200
Bromodichloromethane	<200		200		ug/L			01/17/13 20:27	200
Bromoform	<200		200		ug/L			01/17/13 20:27	200
Bromomethane	<200		200		ug/L			01/17/13 20:27	200
Carbon tetrachloride	<200		200		ug/L			01/17/13 20:27	200
Chlorobenzene	<200		200		ug/L			01/17/13 20:27	200
Chlorodibromomethane	<200		200		ug/L			01/17/13 20:27	200
Chloroethane	<200		200		ug/L			01/17/13 20:27	200
Chloroform	<200		200		ug/L			01/17/13 20:27	200
Chloromethane	<200		200		ug/L			01/17/13 20:27	200
2-Chlorotoluene	<200		200		ug/L			01/17/13 20:27	200
4-Chlorotoluene	<200		200		ug/L			01/17/13 20:27	200
cis-1,2-Dichloroethene	<200		200		ug/L			01/17/13 20:27	200
1,2-Dibromo-3-Chloropropane	<400		400		ug/L			01/17/13 20:27	200
1,2-Dibromoethane	<200		200		ug/L			01/17/13 20:27	200
Dibromomethane	<200		200		ug/L			01/17/13 20:27	200
1,2-Dichlorobenzene	<200		200		ug/L			01/17/13 20:27	200
1,3-Dichlorobenzene	<200		200		ug/L			01/17/13 20:27	200
1,4-Dichlorobenzene	<200		200		ug/L			01/17/13 20:27	200
Dichlorodifluoromethane	<200		200		ug/L			01/17/13 20:27	200
1,1-Dichloroethane	<200		200		ug/L			01/17/13 20:27	200
1,2-Dichloroethane	<200		200		ug/L			01/17/13 20:27	200
1,1-Dichloroethene	<200		200		ug/L			01/17/13 20:27	200
1,2-Dichloropropane	<200		200		ug/L			01/17/13 20:27	200
1,3-Dichloropropane	<200		200		ug/L			01/17/13 20:27	200
2,2-Dichloropropane	<200		200		ug/L			01/17/13 20:27	200
1,1-Dichloropropene	<200		200		ug/L			01/17/13 20:27	200
1,4-Dioxane	<10000		10000		ug/L			01/17/13 20:27	200
Ethylbenzene	<200		200		ug/L			01/17/13 20:27	200
Hexachlorobutadiene	<200		200		ug/L			01/17/13 20:27	200
Isopropylbenzene	<200		200		ug/L			01/17/13 20:27	200
Methylene Chloride	<200		200		ug/L			01/17/13 20:27	200
m-Xylene & p-Xylene	<400		400		ug/L			01/17/13 20:27	200
Naphthalene	<200		200		ug/L			01/17/13 20:27	200
n-Butylbenzene	<200		200		ug/L			01/17/13 20:27	200
N-Propylbenzene	<200		200		ug/L			01/17/13 20:27	200
o-Xylene	<200		200		ug/L			01/17/13 20:27	200
p-Isopropyltoluene	<200		200		ug/L			01/17/13 20:27	200
sec-Butylbenzene	<200		200		ug/L			01/17/13 20:27	200
Styrene	<200		200		ug/L			01/17/13 20:27	200
tert-Butylbenzene	<200		200		ug/L			01/17/13 20:27	200

Client Sample ID: MW-19

Lab Sample ID: 240-19826-20

Date Collected: 01/09/13 14:45

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<200		200		ug/L			01/17/13 20:27	200
1,1,2,2-Tetrachloroethane	<200		200		ug/L			01/17/13 20:27	200
Tetrachloroethene	<200		200		ug/L			01/17/13 20:27	200
Toluene	<200		200		ug/L			01/17/13 20:27	200
trans-1,2-Dichloroethene	<200		200		ug/L			01/17/13 20:27	200
1,2,3-Trichlorobenzene	<200		200		ug/L			01/17/13 20:27	200
1,2,4-Trichlorobenzene	<200		200		ug/L			01/17/13 20:27	200
1,1,1-Trichloroethane	<200		200		ug/L			01/17/13 20:27	200
1,1,2-Trichloroethane	<200		200		ug/L			01/17/13 20:27	200
Trichloroethene	**6400**		200		ug/L			01/17/13 20:27	200
Trichlorofluoromethane	<200		200		ug/L			01/17/13 20:27	200
1,2,3-Trichloropropane	<200		200		ug/L			01/17/13 20:27	200
1,2,4-Trimethylbenzene	<200		200		ug/L			01/17/13 20:27	200
1,3,5-Trimethylbenzene	<200		200		ug/L			01/17/13 20:27	200
Vinyl chloride	<200		200		ug/L			01/17/13 20:27	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*66 - 117*		*01/17/13 20:27*	*200*
Dibromofluoromethane (Surr)	*111*		*75 - 121*		*01/17/13 20:27*	*200*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 129*		*01/17/13 20:27*	*200*
Toluene-d8 (Surr)	*97*		*74 - 115*		*01/17/13 20:27*	*200*

Client Sample ID: DUP-2

Lab Sample ID: 240-19826-21

Date Collected: 01/09/13 12:00

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<200		200		ug/L			01/17/13 20:48	200
Bromobenzene	<200		200		ug/L			01/17/13 20:48	200
Bromochloromethane	<200		200		ug/L			01/17/13 20:48	200
Bromodichloromethane	<200		200		ug/L			01/17/13 20:48	200
Bromoform	<200		200		ug/L			01/17/13 20:48	200
Bromomethane	<200		200		ug/L			01/17/13 20:48	200
Carbon tetrachloride	<200		200		ug/L			01/17/13 20:48	200
Chlorobenzene	<200		200		ug/L			01/17/13 20:48	200
Chlorodibromomethane	<200		200		ug/L			01/17/13 20:48	200
Chloroethane	<200		200		ug/L			01/17/13 20:48	200
Chloroform	<200		200		ug/L			01/17/13 20:48	200
Chloromethane	<200		200		ug/L			01/17/13 20:48	200
2-Chlorotoluene	<200		200		ug/L			01/17/13 20:48	200
4-Chlorotoluene	<200		200		ug/L			01/17/13 20:48	200
cis-1,2-Dichloroethene	<200		200		ug/L			01/17/13 20:48	200
1,2-Dibromo-3-Chloropropane	<400		400		ug/L			01/17/13 20:48	200
1,2-Dibromoethane	<200		200		ug/L			01/17/13 20:48	200
Dibromomethane	<200		200		ug/L			01/17/13 20:48	200
1,2-Dichlorobenzene	<200		200		ug/L			01/17/13 20:48	200
1,3-Dichlorobenzene	<200		200		ug/L			01/17/13 20:48	200
1,4-Dichlorobenzene	<200		200		ug/L			01/17/13 20:48	200
Dichlorodifluoromethane	<200		200		ug/L			01/17/13 20:48	200
1,1-Dichloroethane	<200		200		ug/L			01/17/13 20:48	200
1,2-Dichloroethane	<200		200		ug/L			01/17/13 20:48	200
1,1-Dichloroethene	<200		200		ug/L			01/17/13 20:48	200
1,2-Dichloropropane	<200		200		ug/L			01/17/13 20:48	200
1,3-Dichloropropane	<200		200		ug/L			01/17/13 20:48	200
2,2-Dichloropropane	<200		200		ug/L			01/17/13 20:48	200
1,1-Dichloropropene	<200		200		ug/L			01/17/13 20:48	200
1,4-Dioxane	<10000		10000		ug/L			01/17/13 20:48	200
Ethylbenzene	<200		200		ug/L			01/17/13 20:48	200
Hexachlorobutadiene	<200		200		ug/L			01/17/13 20:48	200
Isopropylbenzene	<200		200		ug/L			01/17/13 20:48	200
Methylene Chloride	<200		200		ug/L			01/17/13 20:48	200
m-Xylene & p-Xylene	<400		400		ug/L			01/17/13 20:48	200
Naphthalene	<200		200		ug/L			01/17/13 20:48	200
n-Butylbenzene	<200		200		ug/L			01/17/13 20:48	200
N-Propylbenzene	<200		200		ug/L			01/17/13 20:48	200
o-Xylene	<200		200		ug/L			01/17/13 20:48	200
p-Isopropyltoluene	<200		200		ug/L			01/17/13 20:48	200
sec-Butylbenzene	<200		200		ug/L			01/17/13 20:48	200
Styrene	<200		200		ug/L			01/17/13 20:48	200
tert-Butylbenzene	<200		200		ug/L			01/17/13 20:48	200
1,1,1,2-Tetrachloroethane	<200		200		ug/L			01/17/13 20:48	200
1,1,2,2-Tetrachloroethane	<200		200		ug/L			01/17/13 20:48	200
Tetrachloroethene	<200		200		ug/L			01/17/13 20:48	200
Toluene	<200		200		ug/L			01/17/13 20:48	200
trans-1,2-Dichloroethene	<200		200		ug/L			01/17/13 20:48	200
1,2,3-Trichlorobenzene	<200		200		ug/L			01/17/13 20:48	200

Client Sample ID: DUP-2

Lab Sample ID: 240-19826-21

Date Collected: 01/09/13 12:00

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200		ug/L			01/17/13 20:48	200
1,1,1-Trichloroethane	<200		200		ug/L			01/17/13 20:48	200
1,1,2-Trichloroethane	<200		200		ug/L			01/17/13 20:48	200
Trichloroethene	**6200**		200		ug/L			01/17/13 20:48	200
Trichlorofluoromethane	<200		200		ug/L			01/17/13 20:48	200
1,2,3-Trichloropropane	<200		200		ug/L			01/17/13 20:48	200
1,2,4-Trimethylbenzene	<200		200		ug/L			01/17/13 20:48	200
1,3,5-Trimethylbenzene	<200		200		ug/L			01/17/13 20:48	200
Vinyl chloride	<200		200		ug/L			01/17/13 20:48	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*66 - 117*		*01/17/13 20:48*	*200*
Dibromofluoromethane (Surr)	*113*		*75 - 121*		*01/17/13 20:48*	*200*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 129*		*01/17/13 20:48*	*200*
Toluene-d8 (Surr)	*95*		*74 - 115*		*01/17/13 20:48*	*200*

Client Sample ID: MW-10
Date Collected: 01/10/13 11:15
Date Received: 01/12/13 10:00

Lab Sample ID: 240-19826-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/17/13 15:04	1
Bromobenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
Bromochloromethane	<1.0		1.0		ug/L			01/17/13 15:04	1
Bromodichloromethane	<1.0		1.0		ug/L			01/17/13 15:04	1
Bromoform	<1.0		1.0		ug/L			01/17/13 15:04	1
Bromomethane	<1.0		1.0		ug/L			01/17/13 15:04	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/17/13 15:04	1
Chlorobenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/17/13 15:04	1
Chloroethane	<1.0		1.0		ug/L			01/17/13 15:04	1
Chloroform	**1.1**		1.0		ug/L			01/17/13 15:04	1
Chloromethane	<1.0		1.0		ug/L			01/17/13 15:04	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/17/13 15:04	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/17/13 15:04	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/17/13 15:04	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/17/13 15:04	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/17/13 15:04	1
Dibromomethane	<1.0		1.0		ug/L			01/17/13 15:04	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/17/13 15:04	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/17/13 15:04	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/17/13 15:04	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/17/13 15:04	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/17/13 15:04	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/17/13 15:04	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/17/13 15:04	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/17/13 15:04	1
1,4-Dioxane	<50		50		ug/L			01/17/13 15:04	1
Ethylbenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/17/13 15:04	1
Isopropylbenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
Methylene Chloride	<1.0		1.0		ug/L			01/17/13 15:04	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/17/13 15:04	1
Naphthalene	<1.0		1.0		ug/L			01/17/13 15:04	1
n-Butylbenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
N-Propylbenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
o-Xylene	<1.0		1.0		ug/L			01/17/13 15:04	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/17/13 15:04	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
Styrene	<1.0		1.0		ug/L			01/17/13 15:04	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/17/13 15:04	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/17/13 15:04	1
Tetrachloroethene	<1.0		1.0		ug/L			01/17/13 15:04	1
Toluene	<1.0		1.0		ug/L			01/17/13 15:04	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/17/13 15:04	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/17/13 15:04	1

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MW-10

Lab Sample ID: 240-19826-22

Date Collected: 01/10/13 11:15

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/17/13 15:04	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/17/13 15:04	1
Trichloroethene	**2.5**		1.0		ug/L			01/17/13 15:04	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/17/13 15:04	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/17/13 15:04	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/17/13 15:04	1
Vinyl chloride	<1.0		1.0		ug/L			01/17/13 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*66 - 117*		*01/17/13 15:04*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 121*		*01/17/13 15:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 129*		*01/17/13 15:04*	*1*
Toluene-d8 (Surr)	*90*		*74 - 115*		*01/17/13 15:04*	*1*

Client Sample ID: MW-5

Lab Sample ID: 240-19826-23

Date Collected: 01/10/13 14:35

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<40		40		ug/L			01/18/13 13:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*74 - 120*		*01/18/13 13:48*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.0		8.0		ug/L			01/18/13 12:34	8
Bromobenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
Bromochloromethane	<8.0		8.0		ug/L			01/18/13 12:34	8
Bromodichloromethane	<8.0		8.0		ug/L			01/18/13 12:34	8
Bromoform	<8.0		8.0		ug/L			01/18/13 12:34	8
Bromomethane	<8.0		8.0		ug/L			01/18/13 12:34	8
Carbon tetrachloride	<8.0		8.0		ug/L			01/18/13 12:34	8
Chlorobenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
Chlorodibromomethane	<8.0		8.0		ug/L			01/18/13 12:34	8
Chloroethane	<8.0		8.0		ug/L			01/18/13 12:34	8
Chloroform	<8.0		8.0		ug/L			01/18/13 12:34	8
Chloromethane	<8.0		8.0		ug/L			01/18/13 12:34	8
2-Chlorotoluene	<8.0		8.0		ug/L			01/18/13 12:34	8
4-Chlorotoluene	<8.0		8.0		ug/L			01/18/13 12:34	8
cis-1,2-Dichloroethene	<8.0		8.0		ug/L			01/18/13 12:34	8
1,2-Dibromo-3-Chloropropane	<16		16		ug/L			01/18/13 12:34	8
1,2-Dibromoethane	<8.0		8.0		ug/L			01/18/13 12:34	8
Dibromomethane	<8.0		8.0		ug/L			01/18/13 12:34	8
1,2-Dichlorobenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
1,3-Dichlorobenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
1,4-Dichlorobenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
Dichlorodifluoromethane	<8.0		8.0		ug/L			01/18/13 12:34	8
1,1-Dichloroethane	<8.0		8.0		ug/L			01/18/13 12:34	8
1,2-Dichloroethane	<8.0		8.0		ug/L			01/18/13 12:34	8
1,1-Dichloroethene	<8.0		8.0		ug/L			01/18/13 12:34	8
1,2-Dichloropropane	<8.0		8.0		ug/L			01/18/13 12:34	8
1,3-Dichloropropane	<8.0		8.0		ug/L			01/18/13 12:34	8
2,2-Dichloropropane	<8.0		8.0		ug/L			01/18/13 12:34	8
1,1-Dichloropropene	<8.0		8.0		ug/L			01/18/13 12:34	8
1,4-Dioxane	<400		400		ug/L			01/18/13 12:34	8
Ethylbenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
Hexachlorobutadiene	<8.0		8.0		ug/L			01/18/13 12:34	8
Isopropylbenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
Methylene Chloride	<8.0		8.0		ug/L			01/18/13 12:34	8
m-Xylene & p-Xylene	<16		16		ug/L			01/18/13 12:34	8
Naphthalene	<8.0		8.0		ug/L			01/18/13 12:34	8
n-Butylbenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
N-Propylbenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
o-Xylene	<8.0		8.0		ug/L			01/18/13 12:34	8
p-Isopropyltoluene	<8.0		8.0		ug/L			01/18/13 12:34	8
sec-Butylbenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
Styrene	<8.0		8.0		ug/L			01/18/13 12:34	8
tert-Butylbenzene	<8.0		8.0		ug/L			01/18/13 12:34	8

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MW-5

Lab Sample ID: 240-19826-23

Date Collected: 01/10/13 14:35

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<8.0		8.0		ug/L			01/18/13 12:34	8
1,1,2,2-Tetrachloroethane	<8.0		8.0		ug/L			01/18/13 12:34	8
Tetrachloroethene	<8.0		8.0		ug/L			01/18/13 12:34	8
Toluene	<8.0		8.0		ug/L			01/18/13 12:34	8
trans-1,2-Dichloroethene	<8.0		8.0		ug/L			01/18/13 12:34	8
1,2,3-Trichlorobenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
1,2,4-Trichlorobenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
1,1,1-Trichloroethane	<8.0		8.0		ug/L			01/18/13 12:34	8
1,1,2-Trichloroethane	<8.0		8.0		ug/L			01/18/13 12:34	8
Trichloroethene	**240**		8.0		ug/L			01/18/13 12:34	8
Trichlorofluoromethane	<8.0		8.0		ug/L			01/18/13 12:34	8
1,2,3-Trichloropropane	<8.0		8.0		ug/L			01/18/13 12:34	8
1,2,4-Trimethylbenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
1,3,5-Trimethylbenzene	<8.0		8.0		ug/L			01/18/13 12:34	8
Vinyl chloride	<8.0		8.0		ug/L			01/18/13 12:34	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*66 - 117*		*01/18/13 12:34*	*8*
Dibromofluoromethane (Surr)	*104*		*75 - 121*		*01/18/13 12:34*	*8*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 129*		*01/18/13 12:34*	*8*
Toluene-d8 (Surr)	*93*		*74 - 115*		*01/18/13 12:34*	*8*

Client Sample ID: MW-3

Lab Sample ID: 240-19826-24

Date Collected: 01/10/13 17:25

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/17/13 16:32	1
Bromobenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
Bromochloromethane	<1.0		1.0		ug/L			01/17/13 16:32	1
Bromodichloromethane	<1.0		1.0		ug/L			01/17/13 16:32	1
Bromoform	<1.0		1.0		ug/L			01/17/13 16:32	1
Bromomethane	<1.0		1.0		ug/L			01/17/13 16:32	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/17/13 16:32	1
Chlorobenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/17/13 16:32	1
Chloroethane	<1.0		1.0		ug/L			01/17/13 16:32	1
Chloroform	**2.7**		1.0		ug/L			01/17/13 16:32	1
Chloromethane	<1.0		1.0		ug/L			01/17/13 16:32	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/17/13 16:32	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/17/13 16:32	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/17/13 16:32	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/17/13 16:32	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/17/13 16:32	1
Dibromomethane	<1.0		1.0		ug/L			01/17/13 16:32	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/17/13 16:32	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/17/13 16:32	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/17/13 16:32	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/17/13 16:32	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/17/13 16:32	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/17/13 16:32	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/17/13 16:32	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/17/13 16:32	1
1,4-Dioxane	<50		50		ug/L			01/17/13 16:32	1
Ethylbenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/17/13 16:32	1
Isopropylbenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
Methylene Chloride	<1.0		1.0		ug/L			01/17/13 16:32	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/17/13 16:32	1
Naphthalene	<1.0		1.0		ug/L			01/17/13 16:32	1
n-Butylbenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
N-Propylbenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
o-Xylene	<1.0		1.0		ug/L			01/17/13 16:32	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/17/13 16:32	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
Styrene	<1.0		1.0		ug/L			01/17/13 16:32	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/17/13 16:32	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/17/13 16:32	1
Tetrachloroethene	<1.0		1.0		ug/L			01/17/13 16:32	1
Toluene	<1.0		1.0		ug/L			01/17/13 16:32	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/17/13 16:32	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/17/13 16:32	1

Client Sample ID: MW-3

Lab Sample ID: 240-19826-24

Date Collected: 01/10/13 17:25

Matrix: Water

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/17/13 16:32	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/17/13 16:32	1
Trichloroethene	**1.3**		1.0		ug/L			01/17/13 16:32	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/17/13 16:32	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/17/13 16:32	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/17/13 16:32	1
Vinyl chloride	<1.0		1.0		ug/L			01/17/13 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*66 - 117*		*01/17/13 16:32*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 121*		*01/17/13 16:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 129*		*01/17/13 16:32*	*1*
Toluene-d8 (Surr)	*94*		*74 - 115*		*01/17/13 16:32*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-19826-25

Date Collected: 01/08/13 00:00

Matrix: WQ

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/17/13 21:09	1
Bromobenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
Bromochloromethane	<1.0		1.0		ug/L			01/17/13 21:09	1
Bromodichloromethane	<1.0		1.0		ug/L			01/17/13 21:09	1
Bromoform	<1.0		1.0		ug/L			01/17/13 21:09	1
Bromomethane	<1.0		1.0		ug/L			01/17/13 21:09	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/17/13 21:09	1
Chlorobenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/17/13 21:09	1
Chloroethane	<1.0		1.0		ug/L			01/17/13 21:09	1
Chloroform	<1.0		1.0		ug/L			01/17/13 21:09	1
Chloromethane	<1.0		1.0		ug/L			01/17/13 21:09	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/17/13 21:09	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/17/13 21:09	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/17/13 21:09	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/17/13 21:09	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/17/13 21:09	1
Dibromomethane	<1.0		1.0		ug/L			01/17/13 21:09	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/17/13 21:09	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/17/13 21:09	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/17/13 21:09	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/17/13 21:09	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/17/13 21:09	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/17/13 21:09	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/17/13 21:09	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/17/13 21:09	1
1,4-Dioxane	<50		50		ug/L			01/17/13 21:09	1
Ethylbenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/17/13 21:09	1
Isopropylbenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
Methylene Chloride	<1.0		1.0		ug/L			01/17/13 21:09	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/17/13 21:09	1
Naphthalene	<1.0		1.0		ug/L			01/17/13 21:09	1
n-Butylbenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
N-Propylbenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
o-Xylene	<1.0		1.0		ug/L			01/17/13 21:09	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/17/13 21:09	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
Styrene	<1.0		1.0		ug/L			01/17/13 21:09	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/17/13 21:09	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/17/13 21:09	1
Tetrachloroethene	<1.0		1.0		ug/L			01/17/13 21:09	1
Toluene	<1.0		1.0		ug/L			01/17/13 21:09	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/17/13 21:09	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/17/13 21:09	1

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-19826-25

Date Collected: 01/08/13 00:00

Matrix: WQ

Date Received: 01/12/13 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/17/13 21:09	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/17/13 21:09	1
Trichloroethene	<1.0		1.0		ug/L			01/17/13 21:09	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/17/13 21:09	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/17/13 21:09	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/17/13 21:09	1
Vinyl chloride	<1.0		1.0		ug/L			01/17/13 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*66 - 117*		*01/17/13 21:09*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 121*		*01/17/13 21:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 129*		*01/17/13 21:09*	*1*
Toluene-d8 (Surr)	*94*		*74 - 115*		*01/17/13 21:09*	*1*

Surrogate Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(66-117)	(75-121)	(63-129)	(74-115)
240-19826-1	MB-2	82	102	91	92
240-19826-1 MS	MB-2	99	100	96	99
240-19826-1 MSD	MB-2	101	100	96	98
240-19826-2	SEEP-H	80	110	101	96
240-19826-3	SEEP-G	80	104	95	93
240-19826-4	SEEP-2	82	104	98	93
240-19826-5	SEEP-I	80	106	97	90
240-19826-6	SEEP-L	82	108	95	90
240-19826-7	SEEP-B	79	106	99	89
240-19826-8	DUP-1	78	106	100	94
240-19826-9	MB-3	82	109	97	91
240-19826-10	MB15	82	106	98	91
240-19826-11	MB-5	82	107	97	92
240-19826-12	MB-16	81	108	99	91
240-19826-13	MW-28	86	93	95	85
240-19826-14	MW-27	90	98	99	91
240-19826-15	MW-25	79	107	99	95
240-19826-17	MW-20	89	101	103	92
240-19826-18	MW-22	82	107	101	95
240-19826-19	MW-14	84	107	100	99
240-19826-20	MW-19	80	111	101	97
240-19826-21	DUP-2	78	113	101	95
240-19826-22	MW-10	81	105	99	90
240-19826-23	MW-5	79	104	95	93
240-19826-24	MW-3	79	108	100	94
LCS 240-72223/4	Lab Control Sample	99	98	94	99
LCS 240-72267/4	Lab Control Sample	91	89	92	89
LCS 240-72385/4	Lab Control Sample	101	98	94	94
LCS 240-72514/4	Lab Control Sample	102	99	93	101
MB 240-72223/5	Method Blank	83	104	96	91
MB 240-72267/5	Method Blank	84	92	97	86
MB 240-72385/5	Method Blank	87	104	95	90
MB 240-72514/5	Method Blank	85	103	93	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: WQ **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(66-117)	(75-121)	(63-129)	(74-115)
240-19826-16	EB-1	83	93	94	83
240-19826-25	TRIP BLANK	78	111	102	94

Surrogate Legend

Surrogate Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
		12DCE						
Lab Sample ID	**Client Sample ID**	**(74-120)**						
240-19826-13	MW-28	79						
240-19826-14	MW-27	84						
240-19826-15	MW-25	82						
240-19826-15 MS	MW-25	78						
240-19826-15 MSD	MW-25	83						
240-19826-17	MW-20	82						
240-19826-19	MW-14	81						
240-19826-19 MS	MW-14	82						
240-19826-19 MSD	MW-14	84						
240-19826-20	MW-19	84						
240-19826-23	MW-5	85						
LCS 240-72393/3	Lab Control Sample	82						
LCS 240-72530/3	Lab Control Sample	83						
MB 240-72393/5	Method Blank	91						
MB 240-72530/5	Method Blank	85						

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

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

Lab Sample ID: MB 240-72223/5
Matrix: Water
Analysis Batch: 72223

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 12:50	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 12:50	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 12:50	1
Bromoform	<1.0		1.0		ug/L			01/16/13 12:50	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 12:50	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 12:50	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 12:50	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 12:50	1
Chloroform	<1.0		1.0		ug/L			01/16/13 12:50	1
Chloromethane	<1.0		1.0		ug/L			01/16/13 12:50	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 12:50	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 12:50	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 12:50	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 12:50	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 12:50	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 12:50	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 12:50	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 12:50	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 12:50	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/16/13 12:50	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 12:50	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 12:50	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 12:50	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 12:50	1
1,4-Dioxane	<50		50		ug/L			01/16/13 12:50	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 12:50	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 12:50	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 12:50	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 12:50	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 12:50	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 12:50	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
Styrene	<1.0		1.0		ug/L			01/16/13 12:50	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 12:50	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 12:50	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 12:50	1
Toluene	<1.0		1.0		ug/L			01/16/13 12:50	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 12:50	1

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

Lab Sample ID: MB 240-72223/5
Matrix: Water
Analysis Batch: 72223

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 12:50	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 12:50	1
Trichloroethene	<1.0		1.0		ug/L			01/16/13 12:50	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 12:50	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 12:50	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 12:50	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*66 - 117*		*01/16/13 12:50*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 121*		*01/16/13 12:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 129*		*01/16/13 12:50*	*1*
Toluene-d8 (Surr)	*91*		*74 - 115*		*01/16/13 12:50*	*1*

Lab Sample ID: LCS 240-72223/4
Matrix: Water
Analysis Batch: 72223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	10.1		ug/L		101	83 - 112
Bromobenzene	10.0	10.4		ug/L		104	76 - 115
Bromochloromethane	10.0	10.2		ug/L		102	77 - 120
Bromodichloromethane	10.0	10.6		ug/L		106	72 - 121
Bromoform	10.0	9.72		ug/L		97	40 - 131
Bromomethane	10.0	7.63		ug/L		76	11 - 185
Carbon tetrachloride	10.0	11.6		ug/L		116	66 - 128
Chlorobenzene	10.0	9.72		ug/L		97	85 - 110
Chlorodibromomethane	10.0	10.3		ug/L		103	64 - 119
Chloroethane	10.0	8.43		ug/L		84	25 - 153
Chloroform	10.0	9.71		ug/L		97	79 - 117
Chloromethane	10.0	9.52		ug/L		95	44 - 126
2-Chlorotoluene	10.0	10.1		ug/L		101	76 - 116
4-Chlorotoluene	10.0	10.4		ug/L		104	77 - 115
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	80 - 113
1,2-Dibromo-3-Chloropropane	10.0	8.36		ug/L		84	42 - 136
1,2-Dibromoethane	10.0	9.53		ug/L		95	79 - 113
Dibromomethane	10.0	10.0		ug/L		100	81 - 120
1,2-Dichlorobenzene	10.0	9.55		ug/L		96	81 - 110
1,3-Dichlorobenzene	10.0	9.85		ug/L		99	80 - 110
1,4-Dichlorobenzene	10.0	9.44		ug/L		94	82 - 110
Dichlorodifluoromethane	10.0	11.8		ug/L		118	19 - 129
1,1-Dichloroethane	10.0	10.2		ug/L		102	82 - 115
1,2-Dichloroethane	10.0	10.1		ug/L		101	71 - 127
1,1-Dichloroethene	10.0	10.7		ug/L		107	78 - 131
1,2-Dichloropropane	10.0	10.2		ug/L		102	81 - 115

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

Lab Sample ID: LCS 240-72223/4
Matrix: Water
Analysis Batch: 72223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	10.0	9.56		ug/L		96	79 - 116
2,2-Dichloropropane	10.0	10.4		ug/L		104	50 - 129
1,1-Dichloropropene	10.0	10.0		ug/L		100	83 - 114
Ethylbenzene	10.0	9.99		ug/L		100	83 - 112
Hexachlorobutadiene	10.0	5.78		ug/L		58	36 - 134
Isopropylbenzene	10.0	9.80		ug/L		98	75 - 114
Methylene Chloride	10.0	10.3		ug/L		103	66 - 131
m-Xylene & p-Xylene	20.0	20.4		ug/L		102	83 - 113
Naphthalene	10.0	6.09		ug/L		61	32 - 141
n-Butylbenzene	10.0	9.19		ug/L		92	66 - 125
N-Propylbenzene	10.0	10.6		ug/L		106	74 - 121
o-Xylene	10.0	10.1		ug/L		101	83 - 113
p-Isopropyltoluene	10.0	10.1		ug/L		101	74 - 120
sec-Butylbenzene	10.0	9.75		ug/L		98	70 - 117
Styrene	10.0	10.3		ug/L		103	79 - 114
tert-Butylbenzene	10.0	10.3		ug/L		103	71 - 115
1,1,1,2-Tetrachloroethane	10.0	10.0		ug/L		100	72 - 116
1,1,2,2-Tetrachloroethane	10.0	8.99		ug/L		90	68 - 118
Tetrachloroethene	10.0	10.1		ug/L		101	79 - 114
Toluene	10.0	9.93		ug/L		99	84 - 111
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	83 - 117
1,2,3-Trichlorobenzene	10.0	6.67		ug/L		67	54 - 126
1,2,4-Trichlorobenzene	10.0	7.21		ug/L		72	48 - 135
1,1,1-Trichloroethane	10.0	10.5		ug/L		105	74 - 118
1,1,2-Trichloroethane	10.0	9.92		ug/L		99	80 - 112
Trichloroethene	10.0	10.3		ug/L		103	76 - 117
Trichlorofluoromethane	10.0	8.98		ug/L		90	49 - 157
1,2,3-Trichloropropane	10.0	9.70		ug/L		97	73 - 129
1,2,4-Trimethylbenzene	10.0	10.3		ug/L		103	76 - 120
1,3,5-Trimethylbenzene	10.0	10.2		ug/L		102	72 - 118
Vinyl chloride	10.0	8.97		ug/L		90	53 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*66 - 117*
Dibromofluoromethane (Surr)	*98*		*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 129*
Toluene-d8 (Surr)	*99*		*74 - 115*

Lab Sample ID: 240-19826-1 MS
Matrix: Water
Analysis Batch: 72223

Client Sample ID: MB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<5.0		50.0	52.1		ug/L		104	72 - 121
Bromobenzene	<5.0		50.0	48.0		ug/L		96	71 - 116
Bromochloromethane	<5.0		50.0	51.9		ug/L		104	73 - 121
Bromodichloromethane	<5.0		50.0	53.8		ug/L		108	67 - 120
Bromoform	<5.0		50.0	48.0		ug/L		96	32 - 128

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

Lab Sample ID: 240-19826-1 MS
Matrix: Water
Analysis Batch: 72223

Client Sample ID: MB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	<5.0		50.0	40.6		ug/L		81	10 - 186
Carbon tetrachloride	<5.0		50.0	56.5		ug/L		113	59 - 129
Chlorobenzene	<5.0		50.0	47.9		ug/L		96	80 - 110
Chlorodibromomethane	<5.0		50.0	50.3		ug/L		101	56 - 118
Chloroethane	<5.0		50.0	46.6		ug/L		86	21 - 165
Chloroform	<5.0		50.0	48.8		ug/L		98	76 - 118
Chloromethane	<5.0		50.0	47.5		ug/L		95	33 - 132
2-Chlorotoluene	<5.0		50.0	46.7		ug/L		93	69 - 117
4-Chlorotoluene	<5.0		50.0	48.3		ug/L		97	71 - 116
cis-1,2-Dichloroethene	170		50.0	218	E	ug/L		103	70 - 120
1,2-Dibromo-3-Chloropropane	<10		50.0	40.7		ug/L		81	32 - 139
1,2-Dibromoethane	<5.0		50.0	46.2		ug/L		92	74 - 113
Dibromomethane	<5.0		50.0	52.8		ug/L		106	77 - 121
1,2-Dichlorobenzene	<5.0		50.0	46.2		ug/L		92	75 - 111
1,3-Dichlorobenzene	<5.0		50.0	46.2		ug/L		92	73 - 110
1,4-Dichlorobenzene	<5.0		50.0	44.8		ug/L		90	75 - 110
Dichlorodifluoromethane	<5.0		50.0	49.8		ug/L		100	17 - 128
1,1-Dichloroethane	8.2		50.0	58.9		ug/L		102	79 - 116
1,2-Dichloroethane	<5.0		50.0	51.1		ug/L		102	68 - 129
1,1-Dichloroethene	17		50.0	69.4		ug/L		104	74 - 135
1,2-Dichloropropane	<5.0		50.0	50.4		ug/L		101	78 - 115
1,3-Dichloropropane	<5.0		50.0	47.4		ug/L		95	74 - 118
2,2-Dichloropropane	<5.0		50.0	50.6		ug/L		101	38 - 127
1,1-Dichloropropene	<5.0		50.0	50.0		ug/L		100	80 - 114
Ethylbenzene	<5.0		50.0	50.2		ug/L		100	75 - 116
Hexachlorobutadiene	<5.0		50.0	27.6		ug/L		55	27 - 132
Isopropylbenzene	<5.0		50.0	46.5		ug/L		93	68 - 116
Methylene Chloride	<5.0		50.0	52.7		ug/L		105	63 - 128
m-Xylene & p-Xylene	<10		100	100		ug/L		100	75 - 117
Naphthalene	<5.0		50.0	27.0		ug/L		54	15 - 158
n-Butylbenzene	<5.0		50.0	41.9		ug/L		84	56 - 127
N-Propylbenzene	<5.0		50.0	49.4		ug/L		99	64 - 124
o-Xylene	<5.0		50.0	50.2		ug/L		100	76 - 116
p-Isopropyltoluene	<5.0		50.0	46.1		ug/L		92	64 - 122
sec-Butylbenzene	<5.0		50.0	43.5		ug/L		87	60 - 119
Styrene	<5.0		50.0	51.0		ug/L		102	71 - 117
tert-Butylbenzene	<5.0		50.0	42.0		ug/L		84	61 - 119
1,1,1,2-Tetrachloroethane	<5.0		50.0	50.4		ug/L		101	64 - 118
1,1,2,2-Tetrachloroethane	<5.0		50.0	42.8		ug/L		86	63 - 122
Tetrachloroethene	<5.0		50.0	47.8		ug/L		96	70 - 117
Toluene	<5.0		50.0	50.6		ug/L		101	78 - 114
trans-1,2-Dichloroethene	<5.0		50.0	55.1		ug/L		106	80 - 119
1,2,3-Trichlorobenzene	<5.0		50.0	31.0		ug/L		62	45 - 129
1,2,4-Trichlorobenzene	<5.0		50.0	33.8		ug/L		68	38 - 138
1,1,1-Trichloroethane	<5.0		50.0	53.4		ug/L		107	68 - 121
1,1,2-Trichloroethane	<5.0		50.0	49.0		ug/L		98	75 - 115
Trichloroethene	<5.0		50.0	51.8		ug/L		104	66 - 120
Trichlorofluoromethane	<5.0		50.0	48.0		ug/L		96	46 - 157

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

Lab Sample ID: 240-19826-1 MS
Matrix: Water
Analysis Batch: 72223

Client Sample ID: MB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	<5.0		50.0	46.0		ug/L		92	67 - 132
1,2,4-Trimethylbenzene	<5.0		50.0	48.2		ug/L		96	67 - 124
1,3,5-Trimethylbenzene	<5.0		50.0	46.8		ug/L		94	63 - 121
Vinyl chloride	71		50.0	107		ug/L		72	49 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*66 - 117*
Dibromofluoromethane (Surr)	*100*		*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 129*
Toluene-d8 (Surr)	*99*		*74 - 115*

Lab Sample ID: 240-19826-1 MSD
Matrix: Water
Analysis Batch: 72223

Client Sample ID: MB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<5.0		50.0	51.6		ug/L		103	72 - 121	1	30
Bromobenzene	<5.0		50.0	51.0		ug/L		102	71 - 116	6	30
Bromochloromethane	<5.0		50.0	53.9		ug/L		108	73 - 121	4	30
Bromodichloromethane	<5.0		50.0	54.0		ug/L		108	67 - 120	0	30
Bromoform	<5.0		50.0	48.9		ug/L		98	32 - 128	2	30
Bromomethane	<5.0		50.0	48.6		ug/L		97	10 - 186	18	30
Carbon tetrachloride	<5.0		50.0	57.0		ug/L		114	59 - 129	1	30
Chlorobenzene	<5.0		50.0	48.4		ug/L		97	80 - 110	1	30
Chlorodibromomethane	<5.0		50.0	50.2		ug/L		100	56 - 118	0	30
Chloroethane	<5.0		50.0	52.3		ug/L		98	21 - 165	12	30
Chloroform	<5.0		50.0	50.6		ug/L		101	76 - 118	4	30
Chloromethane	<5.0		50.0	52.2		ug/L		104	33 - 132	9	30
2-Chlorotoluene	<5.0		50.0	49.4		ug/L		99	69 - 117	6	30
4-Chlorotoluene	<5.0		50.0	50.0		ug/L		100	71 - 116	4	30
cis-1,2-Dichloroethene	170		50.0	221	E	ug/L		108	70 - 120	1	30
1,2-Dibromo-3-Chloropropane	<10		50.0	42.0		ug/L		84	32 - 139	3	30
1,2-Dibromoethane	<5.0		50.0	46.5		ug/L		93	74 - 113	1	30
Dibromomethane	<5.0		50.0	53.5		ug/L		107	77 - 121	1	30
1,2-Dichlorobenzene	<5.0		50.0	48.0		ug/L		96	75 - 111	4	30
1,3-Dichlorobenzene	<5.0		50.0	46.5		ug/L		93	73 - 110	1	30
1,4-Dichlorobenzene	<5.0		50.0	46.3		ug/L		93	75 - 110	3	30
Dichlorodifluoromethane	<5.0		50.0	52.4		ug/L		105	17 - 128	5	30
1,1-Dichloroethane	8.2		50.0	61.1		ug/L		106	79 - 116	4	30
1,2-Dichloroethane	<5.0		50.0	52.8		ug/L		106	68 - 129	3	30
1,1-Dichloroethene	17		50.0	68.8		ug/L		103	74 - 135	1	30
1,2-Dichloropropane	<5.0		50.0	53.7		ug/L		107	78 - 115	6	30
1,3-Dichloropropane	<5.0		50.0	46.8		ug/L		94	74 - 118	1	30
2,2-Dichloropropane	<5.0		50.0	51.2		ug/L		102	38 - 127	1	30
1,1-Dichloropropene	<5.0		50.0	50.0		ug/L		100	80 - 114	0	30
Ethylbenzene	<5.0		50.0	48.7		ug/L		97	75 - 116	3	30
Hexachlorobutadiene	<5.0		50.0	31.0		ug/L		62	27 - 132	12	30
Isopropylbenzene	<5.0		50.0	47.0		ug/L		94	68 - 116	1	30

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

Lab Sample ID: 240-19826-1 MSD
Matrix: Water
Analysis Batch: 72223

Client Sample ID: MB-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	<5.0		50.0	53.5		ug/L		107	63 - 128	2	30
m-Xylene & p-Xylene	<10		100	99.1		ug/L		99	75 - 117	1	30
Naphthalene	<5.0		50.0	35.3		ug/L		71	15 - 158	26	30
n-Butylbenzene	<5.0		50.0	43.1		ug/L		86	56 - 127	3	30
N-Propylbenzene	<5.0		50.0	49.7		ug/L		99	64 - 124	1	30
o-Xylene	<5.0		50.0	49.8		ug/L		100	76 - 116	1	30
p-Isopropyltoluene	<5.0		50.0	47.5		ug/L		95	64 - 122	3	30
sec-Butylbenzene	<5.0		50.0	45.1		ug/L		90	60 - 119	4	30
Styrene	<5.0		50.0	51.1		ug/L		102	71 - 117	0	30
tert-Butylbenzene	<5.0		50.0	43.7		ug/L		87	61 - 119	4	30
1,1,1,2-Tetrachloroethane	<5.0		50.0	51.0		ug/L		102	64 - 118	1	30
1,1,2,2-Tetrachloroethane	<5.0		50.0	44.8		ug/L		90	63 - 122	4	30
Tetrachloroethene	<5.0		50.0	47.9		ug/L		96	70 - 117	0	30
Toluene	<5.0		50.0	48.7		ug/L		97	78 - 114	4	30
trans-1,2-Dichloroethene	<5.0		50.0	56.4		ug/L		109	80 - 119	2	30
1,2,3-Trichlorobenzene	<5.0		50.0	38.0		ug/L		76	45 - 129	20	30
1,2,4-Trichlorobenzene	<5.0		50.0	37.8		ug/L		76	38 - 138	11	30
1,1,1-Trichloroethane	<5.0		50.0	54.0		ug/L		108	68 - 121	1	30
1,1,2-Trichloroethane	<5.0		50.0	49.9		ug/L		100	75 - 115	2	30
Trichloroethene	<5.0		50.0	51.8		ug/L		104	66 - 120	0	30
Trichlorofluoromethane	<5.0		50.0	53.1		ug/L		106	46 - 157	10	30
1,2,3-Trichloropropane	<5.0		50.0	46.2		ug/L		92	67 - 132	1	30
1,2,4-Trimethylbenzene	<5.0		50.0	49.0		ug/L		98	67 - 124	2	30
1,3,5-Trimethylbenzene	<5.0		50.0	48.4		ug/L		97	63 - 121	3	30
Vinyl chloride	71		50.0	118		ug/L		95	49 - 130	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*66 - 117*
Dibromofluoromethane (Surr)	*100*		*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 129*
Toluene-d8 (Surr)	*98*		*74 - 115*

Lab Sample ID: MB 240-72267/5
Matrix: Water
Analysis Batch: 72267

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/16/13 14:17	1
Bromobenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
Bromochloromethane	<1.0		1.0		ug/L			01/16/13 14:17	1
Bromodichloromethane	<1.0		1.0		ug/L			01/16/13 14:17	1
Bromoform	<1.0		1.0		ug/L			01/16/13 14:17	1
Bromomethane	<1.0		1.0		ug/L			01/16/13 14:17	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/16/13 14:17	1
Chlorobenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/16/13 14:17	1
Chloroethane	<1.0		1.0		ug/L			01/16/13 14:17	1
Chloroform	<1.0		1.0		ug/L			01/16/13 14:17	1

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

Lab Sample ID: MB 240-72267/5
Matrix: Water
Analysis Batch: 72267

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<1.0		1.0		ug/L			01/16/13 14:17	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 14:17	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/16/13 14:17	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 14:17	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/16/13 14:17	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/16/13 14:17	1
Dibromomethane	<1.0		1.0		ug/L			01/16/13 14:17	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/16/13 14:17	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/16/13 14:17	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/16/13 14:17	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/16/13 14:17	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 14:17	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/16/13 14:17	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/16/13 14:17	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/16/13 14:17	1
1,4-Dioxane	<50		50		ug/L			01/16/13 14:17	1
Ethylbenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/16/13 14:17	1
Isopropylbenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
Methylene Chloride	<1.0		1.0		ug/L			01/16/13 14:17	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/16/13 14:17	1
Naphthalene	<1.0		1.0		ug/L			01/16/13 14:17	1
n-Butylbenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
N-Propylbenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
o-Xylene	<1.0		1.0		ug/L			01/16/13 14:17	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/16/13 14:17	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
Styrene	<1.0		1.0		ug/L			01/16/13 14:17	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 14:17	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/16/13 14:17	1
Tetrachloroethene	<1.0		1.0		ug/L			01/16/13 14:17	1
Toluene	<1.0		1.0		ug/L			01/16/13 14:17	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/16/13 14:17	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/16/13 14:17	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/16/13 14:17	1
Trichloroethene	<1.0		1.0		ug/L			01/16/13 14:17	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/16/13 14:17	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/16/13 14:17	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/16/13 14:17	1
Vinyl chloride	<1.0		1.0		ug/L			01/16/13 14:17	1

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

Lab Sample ID: MB 240-72267/5
Matrix: Water
Analysis Batch: 72267

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		66 - 117		01/16/13 14:17	1
Dibromofluoromethane (Surr)	92		75 - 121		01/16/13 14:17	1
1,2-Dichloroethane-d4 (Surr)	97		63 - 129		01/16/13 14:17	1
Toluene-d8 (Surr)	86		74 - 115		01/16/13 14:17	1

Lab Sample ID: LCS 240-72267/4
Matrix: Water
Analysis Batch: 72267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.29		ug/L		93	83 - 112
Bromobenzene	10.0	9.33		ug/L		93	76 - 115
Bromochloromethane	10.0	9.82		ug/L		98	77 - 120
Bromodichloromethane	10.0	9.82		ug/L		98	72 - 121
Bromoform	10.0	10.3		ug/L		103	40 - 131
Bromomethane	10.0	8.10		ug/L		81	11 - 185
Carbon tetrachloride	10.0	10.7		ug/L		107	66 - 128
Chlorobenzene	10.0	9.26		ug/L		93	85 - 110
Chlorodibromomethane	10.0	9.71		ug/L		97	64 - 119
Chloroethane	10.0	8.53		ug/L		85	25 - 153
Chloroform	10.0	9.28		ug/L		93	79 - 117
Chloromethane	10.0	9.72		ug/L		97	44 - 126
2-Chlorotoluene	10.0	9.24		ug/L		92	76 - 116
4-Chlorotoluene	10.0	9.06		ug/L		91	77 - 115
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	80 - 113
1,2-Dibromo-3-Chloropropane	10.0	10.2		ug/L		102	42 - 136
1,2-Dibromoethane	10.0	9.54		ug/L		95	79 - 113
Dibromomethane	10.0	10.0		ug/L		100	81 - 120
1,2-Dichlorobenzene	10.0	9.33		ug/L		93	81 - 110
1,3-Dichlorobenzene	10.0	9.25		ug/L		92	80 - 110
1,4-Dichlorobenzene	10.0	8.85		ug/L		89	82 - 110
Dichlorodifluoromethane	10.0	9.33		ug/L		93	19 - 129
1,1-Dichloroethane	10.0	9.92		ug/L		99	82 - 115
1,2-Dichloroethane	10.0	9.71		ug/L		97	71 - 127
1,1-Dichloroethene	10.0	10.4		ug/L		104	78 - 131
1,2-Dichloropropane	10.0	9.67		ug/L		97	81 - 115
1,3-Dichloropropane	10.0	9.46		ug/L		95	79 - 116
2,2-Dichloropropane	10.0	10.0		ug/L		100	50 - 129
1,1-Dichloropropene	10.0	9.81		ug/L		98	83 - 114
Ethylbenzene	10.0	9.37		ug/L		94	83 - 112
Hexachlorobutadiene	10.0	9.17		ug/L		92	36 - 134
Isopropylbenzene	10.0	9.58		ug/L		96	75 - 114
Methylene Chloride	10.0	10.8		ug/L		108	66 - 131
m-Xylene & p-Xylene	20.0	19.1		ug/L		96	83 - 113
Naphthalene	10.0	8.88		ug/L		89	32 - 141
n-Butylbenzene	10.0	9.63		ug/L		96	66 - 125
N-Propylbenzene	10.0	9.87		ug/L		99	74 - 121
o-Xylene	10.0	9.38		ug/L		94	83 - 113

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

Lab Sample ID: LCS 240-72267/4
Matrix: Water
Analysis Batch: 72267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
p-Isopropyltoluene	10.0	9.81		ug/L		98	74 - 120
sec-Butylbenzene	10.0	9.41		ug/L		94	70 - 117
Styrene	10.0	9.74		ug/L		97	79 - 114
tert-Butylbenzene	10.0	9.30		ug/L		93	71 - 115
1,1,1,2-Tetrachloroethane	10.0	9.48		ug/L		95	72 - 116
1,1,2,2-Tetrachloroethane	10.0	8.97		ug/L		90	68 - 118
Tetrachloroethene	10.0	9.42		ug/L		94	79 - 114
Toluene	10.0	9.02		ug/L		90	84 - 111
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	83 - 117
1,2,3-Trichlorobenzene	10.0	7.95		ug/L		79	54 - 126
1,2,4-Trichlorobenzene	10.0	8.92		ug/L		89	48 - 135
1,1,1-Trichloroethane	10.0	9.87		ug/L		99	74 - 118
1,1,2-Trichloroethane	10.0	9.48		ug/L		95	80 - 112
Trichloroethene	10.0	9.92		ug/L		99	76 - 117
Trichlorofluoromethane	10.0	10.3		ug/L		103	49 - 157
1,2,3-Trichloropropane	10.0	9.22		ug/L		92	73 - 129
1,2,4-Trimethylbenzene	10.0	9.54		ug/L		95	76 - 120
1,3,5-Trimethylbenzene	10.0	9.44		ug/L		94	72 - 118
Vinyl chloride	10.0	10.2		ug/L		102	53 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*66 - 117*
Dibromofluoromethane (Surr)	*89*		*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 129*
Toluene-d8 (Surr)	*89*		*74 - 115*

Lab Sample ID: MB 240-72385/5
Matrix: Water
Analysis Batch: 72385

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/17/13 12:24	1
Bromobenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
Bromochloromethane	<1.0		1.0		ug/L			01/17/13 12:24	1
Bromodichloromethane	<1.0		1.0		ug/L			01/17/13 12:24	1
Bromoform	<1.0		1.0		ug/L			01/17/13 12:24	1
Bromomethane	<1.0		1.0		ug/L			01/17/13 12:24	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/17/13 12:24	1
Chlorobenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/17/13 12:24	1
Chloroethane	<1.0		1.0		ug/L			01/17/13 12:24	1
Chloroform	<1.0		1.0		ug/L			01/17/13 12:24	1
Chloromethane	<1.0		1.0		ug/L			01/17/13 12:24	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/17/13 12:24	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/17/13 12:24	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/17/13 12:24	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/17/13 12:24	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/17/13 12:24	1

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

Lab Sample ID: MB 240-72385/5
Matrix: Water
Analysis Batch: 72385

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	<1.0		1.0		ug/L			01/17/13 12:24	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/17/13 12:24	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/17/13 12:24	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/17/13 12:24	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/17/13 12:24	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/17/13 12:24	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/17/13 12:24	1
2,2-Dichloropropane	<1.0		1.0		ug/L			01/17/13 12:24	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/17/13 12:24	1
1,4-Dioxane	<50		50		ug/L			01/17/13 12:24	1
Ethylbenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/17/13 12:24	1
Isopropylbenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
Methylene Chloride	<1.0		1.0		ug/L			01/17/13 12:24	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/17/13 12:24	1
Naphthalene	<1.0		1.0		ug/L			01/17/13 12:24	1
n-Butylbenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
N-Propylbenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
o-Xylene	<1.0		1.0		ug/L			01/17/13 12:24	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/17/13 12:24	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
Styrene	<1.0		1.0		ug/L			01/17/13 12:24	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/17/13 12:24	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/17/13 12:24	1
Tetrachloroethene	<1.0		1.0		ug/L			01/17/13 12:24	1
Toluene	<1.0		1.0		ug/L			01/17/13 12:24	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/17/13 12:24	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/17/13 12:24	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/17/13 12:24	1
Trichloroethene	<1.0		1.0		ug/L			01/17/13 12:24	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/17/13 12:24	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/17/13 12:24	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/17/13 12:24	1
Vinyl chloride	<1.0		1.0		ug/L			01/17/13 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*66 - 117*		*01/17/13 12:24*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 121*		*01/17/13 12:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 129*		*01/17/13 12:24*	*1*
Toluene-d8 (Surr)	*90*		*74 - 115*		*01/17/13 12:24*	*1*

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

Lab Sample ID: LCS 240-72385/4
Matrix: Water
Analysis Batch: 72385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	10.2		ug/L		102	83 - 112
Bromobenzene	10.0	10.3		ug/L		103	76 - 115
Bromochloromethane	10.0	10.1		ug/L		101	77 - 120
Bromodichloromethane	10.0	10.6		ug/L		106	72 - 121
Bromoform	10.0	9.46		ug/L		95	40 - 131
Bromomethane	10.0	9.10		ug/L		91	11 - 185
Carbon tetrachloride	10.0	11.7		ug/L		117	66 - 128
Chlorobenzene	10.0	9.50		ug/L		95	85 - 110
Chlorodibromomethane	10.0	9.90		ug/L		99	64 - 119
Chloroethane	10.0	9.36		ug/L		94	25 - 153
Chloroform	10.0	9.75		ug/L		98	79 - 117
Chloromethane	10.0	10.2		ug/L		102	44 - 126
2-Chlorotoluene	10.0	10.2		ug/L		102	76 - 116
4-Chlorotoluene	10.0	10.5		ug/L		105	77 - 115
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	80 - 113
1,2-Dibromo-3-Chloropropane	10.0	8.71		ug/L		87	42 - 136
1,2-Dibromoethane	10.0	9.25		ug/L		92	79 - 113
Dibromomethane	10.0	10.5		ug/L		105	81 - 120
1,2-Dichlorobenzene	10.0	9.66		ug/L		97	81 - 110
1,3-Dichlorobenzene	10.0	9.85		ug/L		98	80 - 110
1,4-Dichlorobenzene	10.0	9.42		ug/L		94	82 - 110
Dichlorodifluoromethane	10.0	12.3		ug/L		123	19 - 129
1,1-Dichloroethane	10.0	10.3		ug/L		103	82 - 115
1,2-Dichloroethane	10.0	10.0		ug/L		100	71 - 127
1,1-Dichloroethene	10.0	10.7		ug/L		107	78 - 131
1,2-Dichloropropane	10.0	10.5		ug/L		105	81 - 115
1,3-Dichloropropane	10.0	9.36		ug/L		94	79 - 116
2,2-Dichloropropane	10.0	10.6		ug/L		106	50 - 129
1,1-Dichloropropene	10.0	10.1		ug/L		101	83 - 114
Ethylbenzene	10.0	9.92		ug/L		99	83 - 112
Hexachlorobutadiene	10.0	6.84		ug/L		68	36 - 134
Isopropylbenzene	10.0	9.86		ug/L		99	75 - 114
Methylene Chloride	10.0	10.4		ug/L		104	66 - 131
m-Xylene & p-Xylene	20.0	20.2		ug/L		101	83 - 113
Naphthalene	10.0	6.66		ug/L		67	32 - 141
n-Butylbenzene	10.0	9.51		ug/L		95	66 - 125
N-Propylbenzene	10.0	10.9		ug/L		109	74 - 121
o-Xylene	10.0	9.91		ug/L		99	83 - 113
p-Isopropyltoluene	10.0	10.3		ug/L		103	74 - 120
sec-Butylbenzene	10.0	9.86		ug/L		99	70 - 117
Styrene	10.0	10.3		ug/L		103	79 - 114
tert-Butylbenzene	10.0	9.54		ug/L		95	71 - 115
1,1,1,2-Tetrachloroethane	10.0	9.93		ug/L		99	72 - 116
1,1,2,2-Tetrachloroethane	10.0	9.15		ug/L		91	68 - 118
Tetrachloroethene	10.0	9.76		ug/L		98	79 - 114
Toluene	10.0	9.67		ug/L		97	84 - 111
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	83 - 117
1,2,3-Trichlorobenzene	10.0	7.43		ug/L		74	54 - 126

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

Lab Sample ID: LCS 240-72385/4
Matrix: Water
Analysis Batch: 72385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	10.0	7.85		ug/L		79	48 - 135
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	74 - 118
1,1,2-Trichloroethane	10.0	9.49		ug/L		95	80 - 112
Trichloroethene	10.0	10.7		ug/L		107	76 - 117
Trichlorofluoromethane	10.0	10.5		ug/L		105	49 - 157
1,2,3-Trichloropropane	10.0	9.47		ug/L		95	73 - 129
1,2,4-Trimethylbenzene	10.0	10.4		ug/L		104	76 - 120
1,3,5-Trimethylbenzene	10.0	10.4		ug/L		104	72 - 118
Vinyl chloride	10.0	9.62		ug/L		96	53 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*66 - 117*
Dibromofluoromethane (Surr)	*98*		*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 129*
Toluene-d8 (Surr)	*94*		*74 - 115*

Lab Sample ID: MB 240-72514/5
Matrix: Water
Analysis Batch: 72514

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			01/18/13 11:30	1
Bromobenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
Bromochloromethane	<1.0		1.0		ug/L			01/18/13 11:30	1
Bromodichloromethane	<1.0		1.0		ug/L			01/18/13 11:30	1
Bromoform	<1.0		1.0		ug/L			01/18/13 11:30	1
Bromomethane	<1.0		1.0		ug/L			01/18/13 11:30	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/18/13 11:30	1
Chlorobenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/18/13 11:30	1
Chloroethane	<1.0		1.0		ug/L			01/18/13 11:30	1
Chloroform	<1.0		1.0		ug/L			01/18/13 11:30	1
Chloromethane	<1.0		1.0		ug/L			01/18/13 11:30	1
2-Chlorotoluene	<1.0		1.0		ug/L			01/18/13 11:30	1
4-Chlorotoluene	<1.0		1.0		ug/L			01/18/13 11:30	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/18/13 11:30	1
1,2-Dibromo-3-Chloropropane	<2.0		2.0		ug/L			01/18/13 11:30	1
1,2-Dibromoethane	<1.0		1.0		ug/L			01/18/13 11:30	1
Dibromomethane	<1.0		1.0		ug/L			01/18/13 11:30	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			01/18/13 11:30	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/18/13 11:30	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/18/13 11:30	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/18/13 11:30	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/18/13 11:30	1
1,3-Dichloropropane	<1.0		1.0		ug/L			01/18/13 11:30	1

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

Lab Sample ID: MB 240-72514/5
Matrix: Water
Analysis Batch: 72514

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<1.0		1.0		ug/L			01/18/13 11:30	1
1,1-Dichloropropene	<1.0		1.0		ug/L			01/18/13 11:30	1
1,4-Dioxane	<50		50		ug/L			01/18/13 11:30	1
Ethylbenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
Hexachlorobutadiene	<1.0		1.0		ug/L			01/18/13 11:30	1
Isopropylbenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
Methylene Chloride	<1.0		1.0		ug/L			01/18/13 11:30	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			01/18/13 11:30	1
Naphthalene	<1.0		1.0		ug/L			01/18/13 11:30	1
n-Butylbenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
N-Propylbenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
o-Xylene	<1.0		1.0		ug/L			01/18/13 11:30	1
p-Isopropyltoluene	<1.0		1.0		ug/L			01/18/13 11:30	1
sec-Butylbenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
Styrene	<1.0		1.0		ug/L			01/18/13 11:30	1
tert-Butylbenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			01/18/13 11:30	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/18/13 11:30	1
Tetrachloroethene	<1.0		1.0		ug/L			01/18/13 11:30	1
Toluene	<1.0		1.0		ug/L			01/18/13 11:30	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/18/13 11:30	1
1,2,3-Trichlorobenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/18/13 11:30	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/18/13 11:30	1
Trichloroethene	<1.0		1.0		ug/L			01/18/13 11:30	1
Trichlorofluoromethane	<1.0		1.0		ug/L			01/18/13 11:30	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			01/18/13 11:30	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			01/18/13 11:30	1
Vinyl chloride	<1.0		1.0		ug/L			01/18/13 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*66 - 117*		*01/18/13 11:30*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 121*		*01/18/13 11:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 129*		*01/18/13 11:30*	*1*
Toluene-d8 (Surr)	*93*		*74 - 115*		*01/18/13 11:30*	*1*

Lab Sample ID: LCS 240-72514/4
Matrix: Water
Analysis Batch: 72514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.95		ug/L		99	83 - 112
Bromobenzene	10.0	10.1		ug/L		101	76 - 115
Bromochloromethane	10.0	9.71		ug/L		97	77 - 120
Bromodichloromethane	10.0	10.6		ug/L		106	72 - 121
Bromoform	10.0	9.94		ug/L		99	40 - 131

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

Lab Sample ID: LCS 240-72514/4
Matrix: Water
Analysis Batch: 72514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	10.0	7.34		ug/L		73	11 - 185
Carbon tetrachloride	10.0	11.4		ug/L		114	66 - 128
Chlorobenzene	10.0	9.94		ug/L		99	85 - 110
Chlorodibromomethane	10.0	10.2		ug/L		102	64 - 119
Chloroethane	10.0	8.43		ug/L		84	25 - 153
Chloroform	10.0	9.50		ug/L		95	79 - 117
Chloromethane	10.0	9.29		ug/L		93	44 - 126
2-Chlorotoluene	10.0	9.83		ug/L		98	76 - 116
4-Chlorotoluene	10.0	10.4		ug/L		104	77 - 115
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	80 - 113
1,2-Dibromo-3-Chloropropane	10.0	8.45		ug/L		84	42 - 136
1,2-Dibromoethane	10.0	9.44		ug/L		94	79 - 113
Dibromomethane	10.0	10.0		ug/L		100	81 - 120
1,2-Dichlorobenzene	10.0	9.91		ug/L		99	81 - 110
1,3-Dichlorobenzene	10.0	9.83		ug/L		98	80 - 110
1,4-Dichlorobenzene	10.0	9.66		ug/L		97	82 - 110
Dichlorodifluoromethane	10.0	11.9		ug/L		119	19 - 129
1,1-Dichloroethane	10.0	9.93		ug/L		99	82 - 115
1,2-Dichloroethane	10.0	9.89		ug/L		99	71 - 127
1,1-Dichloroethene	10.0	10.1		ug/L		101	78 - 131
1,2-Dichloropropane	10.0	10.4		ug/L		104	81 - 115
1,3-Dichloropropane	10.0	9.47		ug/L		95	79 - 116
2,2-Dichloropropane	10.0	11.0		ug/L		110	50 - 129
1,1-Dichloropropene	10.0	10.0		ug/L		100	83 - 114
Ethylbenzene	10.0	10.2		ug/L		102	83 - 112
Hexachlorobutadiene	10.0	7.08		ug/L		71	36 - 134
Isopropylbenzene	10.0	10.1		ug/L		101	75 - 114
Methylene Chloride	10.0	9.75		ug/L		98	66 - 131
m-Xylene & p-Xylene	20.0	21.1		ug/L		105	83 - 113
Naphthalene	10.0	6.56		ug/L		66	32 - 141
n-Butylbenzene	10.0	9.75		ug/L		98	66 - 125
N-Propylbenzene	10.0	10.5		ug/L		105	74 - 121
o-Xylene	10.0	10.6		ug/L		106	83 - 113
p-Isopropyltoluene	10.0	10.5		ug/L		105	74 - 120
sec-Butylbenzene	10.0	10.0		ug/L		100	70 - 117
Styrene	10.0	10.6		ug/L		106	79 - 114
tert-Butylbenzene	10.0	10.4		ug/L		104	71 - 115
1,1,1,2-Tetrachloroethane	10.0	10.5		ug/L		105	72 - 116
1,1,2,2-Tetrachloroethane	10.0	8.46		ug/L		85	68 - 118
Tetrachloroethene	10.0	10.2		ug/L		102	79 - 114
Toluene	10.0	10.2		ug/L		102	84 - 111
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	83 - 117
1,2,3-Trichlorobenzene	10.0	7.48		ug/L		75	54 - 126
1,2,4-Trichlorobenzene	10.0	8.09		ug/L		81	48 - 135
1,1,1-Trichloroethane	10.0	10.6		ug/L		106	74 - 118
1,1,2-Trichloroethane	10.0	9.98		ug/L		100	80 - 112
Trichloroethene	10.0	10.1		ug/L		101	76 - 117
Trichlorofluoromethane	10.0	9.88		ug/L		99	49 - 157

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

Lab Sample ID: LCS 240-72514/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 72514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	10.0	8.72		ug/L		87	73 - 129
1,2,4-Trimethylbenzene	10.0	10.4		ug/L		104	76 - 120
1,3,5-Trimethylbenzene	10.0	10.3		ug/L		103	72 - 118
Vinyl chloride	10.0	8.76		ug/L		88	53 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*66 - 117*
Dibromofluoromethane (Surr)	*99*		*75 - 121*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 129*
Toluene-d8 (Surr)	*101*		*74 - 115*

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

Lab Sample ID: MB 240-72393/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 72393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<2.0		2.0		ug/L			01/17/13 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*74 - 120*		*01/17/13 12:55*	*1*

Lab Sample ID: LCS 240-72393/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 72393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	9.46		ug/L		95	59 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*74 - 120*

Lab Sample ID: 240-19826-15 MS — **Client Sample ID: MW-25**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 72393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	<25		125	119		ug/L		91	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*74 - 120*

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

Lab Sample ID: 240-19826-15 MSD — **Client Sample ID: MW-25**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 72393

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	<25		125	139		ug/L		107	50 - 150	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*74 - 120*

Lab Sample ID: MB 240-72530/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 72530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<2.0		2.0		ug/L			01/18/13 13:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*74 - 120*		*01/18/13 13:00*	*1*

Lab Sample ID: LCS 240-72530/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 72530

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			10.0	10.3		ug/L		103	59 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*74 - 120*

Lab Sample ID: 240-19826-19 MS — **Client Sample ID: MW-14**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 72530

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	<20		100	106		ug/L		106	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*74 - 120*

Lab Sample ID: 240-19826-19 MSD — **Client Sample ID: MW-14**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 72530

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	<20		100	113		ug/L		113	50 - 150	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*74 - 120*

GC/MS VOA

Analysis Batch: 72223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-19826-1	MB-2	Total/NA	Water	8260B	
240-19826-1 MS	MB-2	Total/NA	Water	8260B	
240-19826-1 MSD	MB-2	Total/NA	Water	8260B	
240-19826-3	SEEP-G	Total/NA	Water	8260B	
240-19826-4	SEEP-2	Total/NA	Water	8260B	
240-19826-5	SEEP-I	Total/NA	Water	8260B	
240-19826-6	SEEP-L	Total/NA	Water	8260B	
240-19826-7	SEEP-B	Total/NA	Water	8260B	
240-19826-9	MB-3	Total/NA	Water	8260B	
240-19826-10	MB15	Total/NA	Water	8260B	
240-19826-11	MB-5	Total/NA	Water	8260B	
240-19826-12	MB-16	Total/NA	Water	8260B	
LCS 240-72223/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-72223/5	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 72267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-19826-13	MW-28	Total/NA	Water	8260B	
240-19826-14	MW-27	Total/NA	Water	8260B	
240-19826-16	EB-1	Total/NA	WQ	8260B	
240-19826-17	MW-20	Total/NA	Water	8260B	
LCS 240-72267/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-72267/5	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 72385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-19826-2	SEEP-H	Total/NA	Water	8260B	
240-19826-8	DUP-1	Total/NA	Water	8260B	
240-19826-15	MW-25	Total/NA	Water	8260B	
240-19826-18	MW-22	Total/NA	Water	8260B	
240-19826-19	MW-14	Total/NA	Water	8260B	
240-19826-20	MW-19	Total/NA	Water	8260B	
240-19826-21	DUP-2	Total/NA	Water	8260B	
240-19826-22	MW-10	Total/NA	Water	8260B	
240-19826-24	MW-3	Total/NA	Water	8260B	
240-19826-25	TRIP BLANK	Total/NA	WQ	8260B	
LCS 240-72385/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-72385/5	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 72393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-19826-15	MW-25	Total/NA	Water	8260B SIM	
240-19826-15 MS	MW-25	Total/NA	Water	8260B SIM	
240-19826-15 MSD	MW-25	Total/NA	Water	8260B SIM	
LCS 240-72393/3	Lab Control Sample	Total/NA	Water	8260B SIM	
MB 240-72393/5	Method Blank	Total/NA	Water	8260B SIM	

Analysis Batch: 72514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-19826-23	MW-5	Total/NA	Water	8260B	
LCS 240-72514/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 72514 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-72514/5	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 72530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-19826-13	MW-28	Total/NA	Water	8260B SIM	
240-19826-14	MW-27	Total/NA	Water	8260B SIM	
240-19826-17	MW-20	Total/NA	Water	8260B SIM	
240-19826-19	MW-14	Total/NA	Water	8260B SIM	
240-19826-19 MS	MW-14	Total/NA	Water	8260B SIM	
240-19826-19 MSD	MW-14	Total/NA	Water	8260B SIM	
240-19826-20	MW-19	Total/NA	Water	8260B SIM	
240-19826-23	MW-5	Total/NA	Water	8260B SIM	
LCS 240-72530/3	Lab Control Sample	Total/NA	Water	8260B SIM	
MB 240-72530/5	Method Blank	Total/NA	Water	8260B SIM	

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MB-2 — Lab Sample ID: 240-19826-1

Date Collected: 01/08/13 13:18 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	72223	01/16/13 13:35	RQ	TAL NC

Client Sample ID: SEEP-H — Lab Sample ID: 240-19826-2

Date Collected: 01/08/13 13:30 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	72385	01/17/13 19:23	RQ	TAL NC

Client Sample ID: SEEP-G — Lab Sample ID: 240-19826-3

Date Collected: 01/08/13 13:45 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72223	01/16/13 17:51	RQ	TAL NC

Client Sample ID: SEEP-2 — Lab Sample ID: 240-19826-4

Date Collected: 01/08/13 13:55 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72223	01/16/13 18:12	RQ	TAL NC

Client Sample ID: SEEP-I — Lab Sample ID: 240-19826-5

Date Collected: 01/08/13 14:08 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72223	01/16/13 18:34	RQ	TAL NC

Client Sample ID: SEEP-L — Lab Sample ID: 240-19826-6

Date Collected: 01/08/13 14:18 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72223	01/16/13 18:55	RQ	TAL NC

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: SEEP-B — Lab Sample ID: 240-19826-7

Date Collected: 01/08/13 16:27 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72223	01/16/13 19:17	RQ	TAL NC

Client Sample ID: DUP-1 — Lab Sample ID: 240-19826-8

Date Collected: 01/08/13 12:00 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	72385	01/17/13 19:44	RQ	TAL NC

Client Sample ID: MB-3 — Lab Sample ID: 240-19826-9

Date Collected: 01/08/13 15:25 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72223	01/16/13 20:00	RQ	TAL NC

Client Sample ID: MB15 — Lab Sample ID: 240-19826-10

Date Collected: 01/08/13 15:38 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72223	01/16/13 20:21	RQ	TAL NC

Client Sample ID: MB-5 — Lab Sample ID: 240-19826-11

Date Collected: 01/08/13 15:59 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72223	01/16/13 20:42	RQ	TAL NC

Client Sample ID: MB-16 — Lab Sample ID: 240-19826-12

Date Collected: 01/08/13 16:12 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72223	01/16/13 21:03	RQ	TAL NC

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MW-28 — Lab Sample ID: 240-19826-13

Date Collected: 01/09/13 11:25 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72267	01/16/13 19:37	RQ	TAL NC
Total/NA	Analysis	8260B SIM		1	72530	01/18/13 14:37	LW	TAL NC

Client Sample ID: MW-27 — Lab Sample ID: 240-19826-14

Date Collected: 01/09/13 12:16 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72267	01/16/13 19:59	RQ	TAL NC
Total/NA	Analysis	8260B SIM		1	72530	01/18/13 15:01	LW	TAL NC

Client Sample ID: MW-25 — Lab Sample ID: 240-19826-15

Date Collected: 01/09/13 17:03 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		125	72385	01/17/13 20:05	RQ	TAL NC
Total/NA	Analysis	8260B SIM		12.5	72393	01/17/13 13:43	LW	TAL NC

Client Sample ID: EB-1 — Lab Sample ID: 240-19826-16

Date Collected: 01/10/13 08:45 — **Matrix: WQ**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72267	01/16/13 20:44	RQ	TAL NC

Client Sample ID: MW-20 — Lab Sample ID: 240-19826-17

Date Collected: 01/10/13 13:12 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		9.091	72267	01/16/13 21:06	RQ	TAL NC
Total/NA	Analysis	8260B SIM		1	72530	01/18/13 15:25	LW	TAL NC

Client Sample ID: MW-22 — Lab Sample ID: 240-19826-18

Date Collected: 01/10/13 16:33 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72385	01/17/13 15:50	RQ	TAL NC

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: MW-14 — Lab Sample ID: 240-19826-19

Date Collected: 01/09/13 11:55 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	72385	01/17/13 16:11	RQ	TAL NC
Total/NA	Analysis	8260B SIM		10	72530	01/18/13 13:24	LW	TAL NC

Client Sample ID: MW-19 — Lab Sample ID: 240-19826-20

Date Collected: 01/09/13 14:45 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	72385	01/17/13 20:27	RQ	TAL NC
Total/NA	Analysis	8260B SIM		1	72530	01/18/13 15:50	LW	TAL NC

Client Sample ID: DUP-2 — Lab Sample ID: 240-19826-21

Date Collected: 01/09/13 12:00 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	72385	01/17/13 20:48	RQ	TAL NC

Client Sample ID: MW-10 — Lab Sample ID: 240-19826-22

Date Collected: 01/10/13 11:15 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72385	01/17/13 15:04	RQ	TAL NC

Client Sample ID: MW-5 — Lab Sample ID: 240-19826-23

Date Collected: 01/10/13 14:35 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		8	72514	01/18/13 12:34	LE	TAL NC
Total/NA	Analysis	8260B SIM		20	72530	01/18/13 13:48	LW	TAL NC

Client Sample ID: MW-3 — Lab Sample ID: 240-19826-24

Date Collected: 01/10/13 17:25 — **Matrix: Water**
Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72385	01/17/13 16:32	RQ	TAL NC

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-19826-25

Date Collected: 01/08/13 00:00

Matrix: WQ

Date Received: 01/12/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	72385	01/17/13 21:09	RQ	TAL NC

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: TK LOUISVILLE

TestAmerica Job ID: 240-19826-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAP	5	200004	07-31-13
Kansas	NELAP	7	E-10336	01-31-13
Kentucky	State Program	4	58	06-30-13
L-A-B	DoD ELAP		L2315	02-28-13
Minnesota	NELAP	5	039-999-348	12-31-13
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAP	2	OH001	06-30-13
New York	NELAP	2	10975	04-01-13
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-13
Texas	NELAP	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-13
Wisconsin	State Program	5	999518190	08-31-13

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: AMEC	Client Project Manager: Rhonda Quinn	Site Contact:	Lab Contact:
Address: 1075 Big Shanty RD, NW	Telephone:	Telephone:	Telephone:
City/State/Zip: Kennesaw / Georgia / 30144	Email:	Analysis Turnaround Time (in BUS days)	
Phone: 770-421-3400		TAT if different from below _____	
Project Name: TK Louisville	Method of Shipment/Carrier:	☐ 3 weeks	
Project Number: 6122-09-0322	Shipping/Tracking No:	☐ 2 weeks	
PO#		☒ 1 week	
		☐ 2 days	
		☐ 1 day	

COC No: 55634

1 of 3 COCs

For lab use only: Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: Protect VOCs 8260B	SIM 1,4 Dioxane	Sample Specific Notes / Special Instructions:
MB-2	1-8-13	1318		X						X					N	G	3		
Seep-H	1-8-13	1330		X						X					N	G	3		
Seep-G	1-8-13	1345		X						X					N	G	3		
Seep-2	1-8-13	1355		X						X					N	G	3		
Seep-I	1-8-13	1409		X						X					N	G	3		
Seep-L	1-8-13	1418		X						X					N	G	3		
Seep-B	1-8-13	1627		X						X					N	G	3		
Dup-1	1-8-13	1200		X						X					N	G	3		
MB-3	1-8-13	1525		X						X					N	G	3		
MB-15	1-8-13	1538		X						X					N	G	3		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	AMEC	1-11-13 / 1450	[signature]	[signature]	1/11/13 1450
[signature]	[signature]	1/11/13 1600			
			Received in Laboratory by: [signature]	TA	1/12/13 1000

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TAL 0018- 1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: AMEC	Client Project Manager: Rhonda Quinn	Site Contact:	Lab Contact:	COC No: 55635
Address: 1075 Big Shanty Rd NW	Telephone:	Telephone:	Telephone:	2 of 3 COCs
City/State/Zip: Kennesaw / Georgia / 30144	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 770-421-3400		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: TK Louisville	Method of Shipment/Carrier:			
Project Number: 6122-09-0322	Shipping/Tracking No:			Job/SDG No:
PO#				

Sample Identification	Sample Date	SampleTime	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: Project VOCs 8260B	5 ml 1,4 Dioxane									Sample Specific Notes / Special Instructions:
MB-5	1-8-13	1559		X						X					N	G	3										
MB-16	1-8-13	1612		X						X							3										
MW-28	1-9-13	1125		X						X							3	3									
MW-27	1-9-13	1216		X						X							3	3									
MW-25	1-9-13	1703		X						X							3	3									
EB-1	1-10-13	0845		X						X							3										
MW-20	1-10-13	1312		X						X							3	3									
MW-22	1-10-13	1633		X						X							3										
MW-14	1-9-13	1155		X						X							3	3									
MW-19	1-9-13	1445		X						X					✓	✓	3	3									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	AMEC	1-11-13 / 1450	[signature]	TA	1/13/13 1450
[signature]	TA	1/11/13 1600			
			Received in Laboratory by: [signature]	TA	1/12/13 1000

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TAL 0018- 1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: AMEC	Client Project Manager: Rhonda Quinn	Site Contact:	Lab Contact:
Address: 1075 Big Shanty RD. NW	Telephone:	Telephone:	Telephone:
City/State/Zip: Kennesaw / Georgia / 30144	Email:	Analysis Turnaround Time (in BUS days)	
Phone: 770-421-3400		TAT if different from below _____	
Project Name: TK Louisville	Method of Shipment/Carrier:	☐ 3 weeks	
Project Number: 6122-09-0322	Shipping/Tracking No:	☐ 2 weeks	
PO#		☒ 1 week	
		☐ 2 days	
		☐ 1 day	

COC No: 55636

3 of 3 COCs

For lab use only

☐ Walk-in client
☐ Lab pickup
☐ Lab sampling

Job/SDG No:

Sample Specific Notes / Special Instructions:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCL	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: Project VOCs 8260B	5 M 1,4-Dioxane									
DUP-2	1-9-13	1200		X						X					N	G	3										
MW-10	1-10-13	1115		X						X							3										
MW-5	1-10-13	1435		X						X							3	3									
MW-3	1-10-13	1725		X						X							3										
trip Blank				X						X							3										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	AMEC	1-11-13 / 1450	[signature]	TA	1/11/13 1500
[signature]	TA	1/11/13 1600			

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
			Received in Laboratory by: [signature]	TA	1/12/13 1000

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TAL 0018- 1 (04/10)

TestAmerica Canton Sample Receipt Form/Narrative Login # : 19826

Client AMEC Site Name TK-Louisville By: [signature]

Cooler Received on 1/12/13 Opened on 1-14-13 (Signature)

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1	(CF -2 °C) Observed Sample Temp. ____ °C	Corrected Sample Temp. ____ °C	
IR GUN# 4G	(CF 0 °C) Observed Sample Temp. ____ °C	Corrected Sample Temp. ____ °C	☐ Multiple on Back
IR GUN# 5G	(CF 0 °C) Observed Sample Temp. ____ °C	Corrected Sample Temp. ____ °C	
IR GUN# 8	(CF 0 °C) Observed Sample Temp. 1.6 °C	Corrected Sample Temp 1.6 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   - -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   - -Were custody seals on the bottle(s)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Did all bottles arrive in good condition (Unbroken)? Yes No
7. Could all bottle labels be reconciled with the COC? Yes No
8. Were correct bottle(s) used for the test(s) indicated? Yes No
9. Sufficient quantity received to perform indicated analyses? Yes No
10. Were sample(s) at the correct pH upon receipt? Yes No NA
11. Were VOAs on the COC? Yes No
12. Were air bubbles >6 mm in any VOA vials? Yes No NA
13. Was a trip blank present in the cooler(s)? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO3; Sulfuric Acid Lot# 051012-H2SO4; Sodium Hydroxide Lot# 121809 -NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

Cooler #	Observed Sample Temp. °C	Corrected Sample Temp. °C	IR #	Coolant

From: Pietras, Nathan
To: Quinn, Rhonda R
Cc: Brooks, Kris
Subject: RE: Thermo King Louisville follow up data
Date: Monday, February 25, 2013 3:29:01 PM

Rhonda
We did not have any undiluted runs, but we did have some less dilute runs. Please see below:

	Result (ug/L)	Reporting limit (ug/L)	Dilution Factor
Seep H (Lab ID# 240-19826-2)			
1,1,1-Trichloroethane	18	13	13
1,1-Dichloroethane	ND	13	13
1,1-Dichloroethene	85	13	13
Toluene	ND	13	13
Vinyl Chloride	ND	13	13
MW-14 (Lab ID# 240-19826-19)			
1,1-Dichloroethene	66	63	63
Tetrachloroethene (PCE)	ND	63	63
Vinyl Chloride	ND	63	63
MW-19 (Lab ID# 240-19826-20)			
1,1-Dichloroethene	34 J	140	140
Cis-1,2-Dichloroethene	ND	140	140
Tetrachloroethene (PCE)	ND	140	140
Vinyl Chloride	ND	140	140
MW-20 (Lab ID# 240-19826-17)			
1,1-Dichloroethene	4.6 J	9.1	9.1
Trichloroethene (TCE)	ND	9.1	9.1
Vinyl Chloride	ND	9.1	9.1
MW-25 (Lab ID# 240-19826-15)			
1,1-Dichloroethene	26 J	77	77
Vinyl Chloride	24 J	77	77

Let me know if you need anything further.

Thanks
Nate

Georgia Department of Natural Resources

Environmental Protection Division
2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334-9000
Judson H. Turner, Director
(404) 656-4713
FAX: (404) 651-5778

29 June 2012

Mr. Jeffrey C. Smith, Quality Assurance Specialist
TestAmerica Laboratories, Inc. North Canton
4101 Shuffel Street, NW
North Canton, OH 44720

RE: Laboratory Approval

Dear Mr. Smith:

I have received your June 29, 2012 communication requesting a renewal of your approval status. Please note that the Environmental Protection Division does not accredit or certify commercial laboratories (other than for drinking water) or issue certification, but rather we require commercial environmental laboratories to be approved under our Rules for Commercial Environmental Laboratories. You provided documentation that your laboratory is accredited by the State of Florida, Department of Health, Bureau of Laboratories (hereinafter, "Florida"), in accordance with NELAP. The accreditation is in the categories of Environmental Analyses for non-potable water, for solid and chemical materials, and for biological tissue (methyl mercury).

After reviewing the information provided in your letter and the attached documentation from Florida, approval is granted under our Rules for Commercial Environmental Laboratories for those individual parameters within the categories of (1) Non-potable Water, (2) Solid and Chemical Materials, and (3) Biological Tissue which you are certified by Florida. This approval is valid through June 30, 2013, which is the expiration date of your accreditation. To be approved after that date, your accreditation must be renewed.

I trust this response meets your needs; should you require further information, please do not hesitate to call me at (404) 651-5155.

Sincerely,

Ted V. Jackson, Manager
Drinking Water Program
Georgia Environmental Protection Division

State of Florida
Department of Health, Bureau of Public Health Laboratories

This is to certify that

E87225

TESTAMERICA - NORTH CANTON
4101 SHUFFEL ST NW
NORTH CANTON, OH 44720-6961

has complied with Florida Administrative Code 64E-1,
for the examination of environmental samples in the following categories

NON-POTABLE WATER - EXTRACTABLE ORGANICS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - PESTICIDES-HERBICIDES-PCB'S, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS - EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - PESTICIDES-HERBICIDES-PCB'S, SOLID AND CHEMICAL MATERIALS - VOLATILE ORGANICS, BIOLOGICAL TISSUE - METALS

Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: October 16, 2012 Expiration Date: June 30, 2013

Victor Johnson
Interim Director, Division of Emergency Preparedness and Community Support
Florida Department of Health
DH Form 1697, 7/04
NON-TRANSFERABLE E87225-44-10/16/2012
Supersedes all previously issued certificates

Laboratory Scope of Accreditation

Attachment to Certificate #: E87225-44, expiration date June 30, 2013. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87225** EPA Lab Code: **OH00048** **(330) 497-9396**

E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,1-Trichloroethane	EPA 624	Volatile Organics	NELAP	5/24/2010
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	5/24/2010
1,1,2,2-Tetrachloroethane	EPA 624	Volatile Organics	NELAP	3/18/2004
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,1,2-Trichloroethane	EPA 624	Volatile Organics	NELAP	3/18/2004
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,1-Dichloroethane	EPA 624	Volatile Organics	NELAP	3/18/2004
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,1-Dichloroethylene	EPA 624	Volatile Organics	NELAP	3/18/2004
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,4,5-Tetrachlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2,4-Trichlorobenzene	EPA 625	Extractable Organics	NELAP	3/18/2004
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,4-Trichlorobenzene	EPA 8270	Extractable Organics	NELAP	3/18/2004
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	3/18/2004
1,2-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	3/18/2004
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,2-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2-Dichloroethane	EPA 624	Volatile Organics	NELAP	3/18/2004
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,2-Dichloropropane	EPA 624	Volatile Organics	NELAP	3/18/2004
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,2-Dinitrobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2-Diphenylhydrazine	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,3-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	3/18/2004
1,3-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	3/18/2004
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,3-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003

Laboratory Scope of Accreditation

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State Laboratory ID: **E87225** EPA Lab Code: **OH00048** **(330) 497-9396**

E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,4-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	3/18/2004
1,4-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	3/18/2004
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,4-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,4-Dinitrobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,4-Naphthoquinone	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,4-Phenylenediamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
1-Naphthylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
2,3,4,6-Tetrachlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4,5-T	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	6/22/2012
2,4,5-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4,6-Trichlorophenol	EPA 625	Extractable Organics	NELAP	3/18/2004
2,4,6-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2,4-D	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	4/7/2008
2,4-DB	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
2,4-Dichlorophenol	EPA 625	Extractable Organics	NELAP	3/18/2004
2,4-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2,4-Dimethylphenol	EPA 625	Extractable Organics	NELAP	3/18/2004
2,4-Dimethylphenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2,4-Dinitrophenol	EPA 625	Extractable Organics	NELAP	3/18/2004
2,4-Dinitrophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2,4-Dinitrotoluene (2,4-DNT)	EPA 625	Extractable Organics	NELAP	3/18/2004
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270	Extractable Organics	NELAP	3/18/2004
2,6-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,6-Dinitrotoluene (2,6-DNT)	EPA 625	Extractable Organics	NELAP	3/18/2004
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270	Extractable Organics	NELAP	3/18/2004
2-Acetylaminofluorene	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Chloroethyl vinyl ether	EPA 624	Volatile Organics	NELAP	3/18/2004
2-Chloroethyl vinyl ether	EPA 8260	Volatile Organics	NELAP	3/18/2004
2-Chloronaphthalene	EPA 625	Extractable Organics	NELAP	3/18/2004
2-Chloronaphthalene	EPA 8270	Extractable Organics	NELAP	3/18/2004
2-Chlorophenol	EPA 625	Extractable Organics	NELAP	3/18/2004

Laboratory Scope of Accreditation

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State Laboratory ID: **E87225** EPA Lab Code: **OH00048** **(330) 497-9396**

E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
2-Chlorophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Hexanone	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Methyl-4,6-dinitrophenol	EPA 625	Extractable Organics	NELAP	3/18/2004
2-Methyl-4,6-dinitrophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Methylphenol (o-Cresol)	EPA 625	Extractable Organics	NELAP	1/10/2011
2-Methylphenol (o-Cresol)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Naphthylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Nitrophenol	EPA 625	Extractable Organics	NELAP	3/18/2004
2-Nitrophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2-Picoline (2-Methylpyridine)	EPA 8270	Extractable Organics	NELAP	7/1/2003
3,3'-Dichlorobenzidine	EPA 625	Extractable Organics	NELAP	3/18/2004
3,3'-Dichlorobenzidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
3,3'-Dimethylbenzidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
3/4-Methylphenols (m/p-Cresols)	EPA 8270	Extractable Organics	NELAP	1/10/2011
3-Methylcholanthrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
3-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
4,4'-DDD	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
4,4'-DDD	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
4,4'-DDE	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
4,4'-DDE	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
4,4'-DDT	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
4,4'-DDT	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
4,4'-Methylenebis(2-chloroaniline)	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Aminobiphenyl	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Bromophenyl phenyl ether	EPA 625	Extractable Organics	NELAP	3/18/2004
4-Bromophenyl phenyl ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chloro-3-methylphenol	EPA 625	Extractable Organics	NELAP	3/18/2004
4-Chloro-3-methylphenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
4-Chloroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chlorophenyl phenylether	EPA 625	Extractable Organics	NELAP	3/18/2004
4-Chlorophenyl phenylether	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
4-Dimethyl aminoazobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003

Laboratory Scope of Accreditation

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State Laboratory ID: **E87225** EPA Lab Code: **OH00048** **(330) 497-9396**

E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	7/1/2003
4-Methylphenol (p-Cresol)	EPA 625	Extractable Organics	NELAP	4/30/2008
4-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Nitrophenol	EPA 625	Extractable Organics	NELAP	3/18/2004
4-Nitrophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
5-Nitro-o-toluidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
7,12-Dimethylbenz(a) anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
a,a-Dimethylphenethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acenaphthene	EPA 625	Extractable Organics	NELAP	3/18/2004
Acenaphthene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Acenaphthylene	EPA 625	Extractable Organics	NELAP	3/18/2004
Acenaphthylene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Acetone	EPA 8260	Volatile Organics	NELAP	7/1/2003
Acetonitrile	EPA 8260	Volatile Organics	NELAP	7/1/2003
Acetophenone	EPA 625	Extractable Organics	NELAP	4/30/2008
Acetophenone	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acetylene	RSK-175	Volatile Organics	NELAP	1/10/2011
Acrolein (Propenal)	EPA 624	Volatile Organics	NELAP	3/18/2004
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	3/18/2004
Acrylonitrile	EPA 624	Volatile Organics	NELAP	3/18/2004
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	3/18/2004
Aldrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Aldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Alkalinity as CaCO3	EPA 310.1	General Chemistry	NELAP	4/29/2004
Alkalinity as CaCO3	SM 2320 B	General Chemistry	NELAP	10/7/2002
Allyl chloride (3-Chloropropene)	EPA 8260	Volatile Organics	NELAP	7/1/2003
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
alpha-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aluminum	EPA 200.7	Metals	NELAP	3/18/2004
Aluminum	EPA 200.8	Metals	NELAP	3/18/2004
Aluminum	EPA 6010	Metals	NELAP	7/1/2003
Aluminum	EPA 6020	Metals	NELAP	7/1/2003
Amenable cyanide	EPA 9012	General Chemistry	NELAP	7/1/2003
Amenable cyanide	SM 4500-CN- G	General Chemistry	NELAP	4/30/2008
Ammonia as N	EPA 350.2	General Chemistry	NELAP	4/29/2004

Laboratory Scope of Accreditation

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E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Ammonia as N	EPA 350.3	General Chemistry	NELAP	4/29/2004
Ammonia as N	SM 4500-NH3 E (18th Ed.)/TITR	General Chemistry	NELAP	11/13/2007
Ammonia as N	SM 4500-NH3 F (18th Ed.)/ISE	General Chemistry	NELAP	4/30/2008
Aniline	EPA 625	Extractable Organics	NELAP	4/30/2008
Aniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
Anthracene	EPA 625	Extractable Organics	NELAP	3/18/2004
Anthracene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Antimony	EPA 200.7	Metals	NELAP	3/18/2004
Antimony	EPA 200.8	Metals	NELAP	3/18/2004
Antimony	EPA 6010	Metals	NELAP	4/29/2004
Antimony	EPA 6020	Metals	NELAP	4/29/2004
Aramite	EPA 8270	Extractable Organics	NELAP	7/1/2003
Aroclor-1016 (PCB-1016)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Aroclor-1016 (PCB-1016)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Aroclor-1221 (PCB-1221)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/15/2004
Aroclor-1221 (PCB-1221)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	5/15/2004
Aroclor-1232 (PCB-1232)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Aroclor-1232 (PCB-1232)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Aroclor-1242 (PCB-1242)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Aroclor-1242 (PCB-1242)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Aroclor-1248 (PCB-1248)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Aroclor-1248 (PCB-1248)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Aroclor-1254 (PCB-1254)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Aroclor-1254 (PCB-1254)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Aroclor-1260 (PCB-1260)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Aroclor-1260 (PCB-1260)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Arsenic	EPA 200.7	Metals	NELAP	3/18/2004
Arsenic	EPA 200.8	Metals	NELAP	5/15/2007
Arsenic	EPA 6010	Metals	NELAP	4/29/2004
Arsenic	EPA 6020	Metals	NELAP	5/15/2007
Barium	EPA 200.7	Metals	NELAP	3/18/2004
Barium	EPA 200.8	Metals	NELAP	3/18/2004
Barium	EPA 6010	Metals	NELAP	4/29/2004
Barium	EPA 6020	Metals	NELAP	4/29/2004
Benzene	EPA 624	Volatile Organics	NELAP	3/18/2004

Laboratory Scope of Accreditation

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E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Benzene	EPA 8260	Volatile Organics	NELAP	3/18/2004
Benzidine	EPA 625	Extractable Organics	NELAP	3/18/2004
Benzidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(a)anthracene	EPA 625	Extractable Organics	NELAP	3/18/2004
Benzo(a)anthracene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Benzo(a)pyrene	EPA 625	Extractable Organics	NELAP	3/18/2004
Benzo(a)pyrene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Benzo(b)fluoranthene	EPA 625	Extractable Organics	NELAP	3/18/2004
Benzo(b)fluoranthene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Benzo(g,h,i)perylene	EPA 625	Extractable Organics	NELAP	3/18/2004
Benzo(g,h,i)perylene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Benzo(k)fluoranthene	EPA 625	Extractable Organics	NELAP	3/18/2004
Benzo(k)fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzoic acid	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzyl alcohol	EPA 8270	Extractable Organics	NELAP	7/1/2003
Beryllium	EPA 200.7	Metals	NELAP	3/18/2004
Beryllium	EPA 200.8	Metals	NELAP	3/18/2004
Beryllium	EPA 6010	Metals	NELAP	7/1/2003
Beryllium	EPA 6020	Metals	NELAP	7/1/2003
beta-BHC (beta-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Biochemical oxygen demand	EPA 405.1	General Chemistry	NELAP	4/29/2004
Biochemical oxygen demand	SM 5210 B	General Chemistry	NELAP	11/13/2007
bis(2-Chloroethoxy)methane	EPA 625	Extractable Organics	NELAP	3/18/2004
bis(2-Chloroethoxy)methane	EPA 8270	Extractable Organics	NELAP	3/18/2004
bis(2-Chloroethyl) ether	EPA 625	Extractable Organics	NELAP	3/18/2004
bis(2-Chloroethyl) ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
bis(2-Chloroisopropyl) ether (2,2'-Oxybis(1-chloropropane))	EPA 625	Extractable Organics	NELAP	3/18/2004
bis(2-Chloroisopropyl) ether (2,2'-Oxybis(1-chloropropane))	EPA 8270	Extractable Organics	NELAP	3/18/2004
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 625	Extractable Organics	NELAP	3/18/2004
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 8270	Extractable Organics	NELAP	3/18/2004
Boron	EPA 200.7	Metals	NELAP	10/7/2002
Boron	EPA 6010	Metals	NELAP	7/1/2003
Boron	EPA 6020	Metals	NELAP	8/3/2005
Bromide	EPA 300.0	General Chemistry	NELAP	10/7/2002

Laboratory Scope of Accreditation

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State Laboratory ID: **E87225** EPA Lab Code: **OH00048** **(330) 497-9396**

E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Bromide	EPA 9056	General Chemistry	NELAP	7/1/2003
Bromobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromodichloromethane	EPA 624	Volatile Organics	NELAP	3/18/2004
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
Bromoform	EPA 624	Volatile Organics	NELAP	3/18/2004
Bromoform	EPA 8260	Volatile Organics	NELAP	3/18/2004
Butyl benzyl phthalate	EPA 625	Extractable Organics	NELAP	3/18/2004
Butyl benzyl phthalate	EPA 8270	Extractable Organics	NELAP	3/18/2004
Cadmium	EPA 200.7	Metals	NELAP	3/18/2004
Cadmium	EPA 200.8	Metals	NELAP	3/18/2004
Cadmium	EPA 6010	Metals	NELAP	4/29/2004
Cadmium	EPA 6020	Metals	NELAP	4/29/2004
Calcium	EPA 200.7	Metals	NELAP	5/15/2004
Calcium	EPA 6010	Metals	NELAP	7/1/2003
Calcium	EPA 6020	Metals	NELAP	8/3/2005
Carbazole	EPA 625	Extractable Organics	NELAP	4/30/2008
Carbazole	EPA 8270	Extractable Organics	NELAP	7/1/2003
Carbon dioxide	RSK-175	Volatile Organics	NELAP	1/10/2011
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	7/1/2003
Carbon tetrachloride	EPA 624	Volatile Organics	NELAP	5/24/2010
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	5/24/2010
Carbonaceous BOD (CBOD)	SM 5210 B	General Chemistry	NELAP	10/7/2002
Chemical oxygen demand	EPA 410.4	General Chemistry	NELAP	4/29/2004
Chemical oxygen demand	SM 5220 D	General Chemistry	NELAP	4/30/2008
Chlordane (tech.)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Chlordane (tech.)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Chloride	EPA 300.0	General Chemistry	NELAP	4/29/2004
Chloride	EPA 325.2	General Chemistry	NELAP	4/29/2004
Chloride	EPA 9056	General Chemistry	NELAP	7/1/2003
Chloride	EPA 9251	General Chemistry	NELAP	7/1/2003
Chloride	SM 4500-Cl^- E	General Chemistry	NELAP	11/13/2007
Chlorobenzene	EPA 624	Volatile Organics	NELAP	3/18/2004
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	3/18/2004
Chlorobenzilate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Chlorobenzilate	EPA 8270	Extractable Organics	NELAP	7/1/2003

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TestAmerica - North Canton
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Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Chloroethane	EPA 624	Volatile Organics	NELAP	3/18/2004
Chloroethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
Chloroform	EPA 624	Volatile Organics	NELAP	3/18/2004
Chloroform	EPA 8260	Volatile Organics	NELAP	3/18/2004
Chloroprene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chromium	EPA 200.7	Metals	NELAP	3/18/2004
Chromium	EPA 200.8	Metals	NELAP	3/18/2004
Chromium	EPA 6010	Metals	NELAP	4/29/2004
Chromium	EPA 6020	Metals	NELAP	4/29/2004
Chromium VI	EPA 7196	General Chemistry	NELAP	4/29/2004
Chromium VI	SM 3500-Cr D (18th/19th Ed.)/UV-VIS	General Chemistry	NELAP	4/29/2004
Chrysene	EPA 625	Extractable Organics	NELAP	3/18/2004
Chrysene	EPA 8270	Extractable Organics	NELAP	3/18/2004
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
cis-1,3-Dichloropropene	EPA 624	Volatile Organics	NELAP	3/18/2004
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	3/18/2004
Cobalt	EPA 200.7	Metals	NELAP	3/18/2004
Cobalt	EPA 200.8	Metals	NELAP	3/18/2004
Cobalt	EPA 6010	Metals	NELAP	7/1/2003
Cobalt	EPA 6020	Metals	NELAP	7/1/2003
Conductivity	EPA 120.1	General Chemistry	NELAP	4/29/2004
Conductivity	EPA 9050	General Chemistry	NELAP	7/1/2003
Conductivity	SM 2510 B	General Chemistry	NELAP	11/13/2007
Copper	EPA 200.7	Metals	NELAP	3/18/2004
Copper	EPA 200.8	Metals	NELAP	3/18/2004
Copper	EPA 6010	Metals	NELAP	7/1/2003
Copper	EPA 6020	Metals	NELAP	4/30/2008
Cyanide	SM 4500-CN E	General Chemistry	NELAP	8/31/2002
Dalapon	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
delta-BHC	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
delta-BHC	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Diallate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Diallate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dibenz(a,h)anthracene	EPA 625	Extractable Organics	NELAP	3/18/2004
Dibenz(a,h)anthracene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Dibenzofuran	EPA 8270	Extractable Organics	NELAP	7/1/2003

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Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Dibromochloromethane	EPA 624	Volatile Organics	NELAP	3/18/2004
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
Dibromomethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dicamba	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
Dichloroprop (Dichlorprop)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dieldrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Dieldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Diesel range organics (DRO)	EPA 8015	Extractable Organics	NELAP	7/1/2003
Diethyl phthalate	EPA 625	Extractable Organics	NELAP	3/18/2004
Diethyl phthalate	EPA 8270	Extractable Organics	NELAP	3/18/2004
Dimethoate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dimethyl phthalate	EPA 625	Extractable Organics	NELAP	3/18/2004
Dimethyl phthalate	EPA 8270	Extractable Organics	NELAP	3/18/2004
Di-n-butyl phthalate	EPA 625	Extractable Organics	NELAP	3/18/2004
Di-n-butyl phthalate	EPA 8270	Extractable Organics	NELAP	3/18/2004
Di-n-octyl phthalate	EPA 625	Extractable Organics	NELAP	3/18/2004
Di-n-octyl phthalate	EPA 8270	Extractable Organics	NELAP	3/18/2004
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270	Extractable Organics	NELAP	7/1/2003
Diphenylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Disulfoton	EPA 8270	Extractable Organics	NELAP	7/1/2003
Endosulfan I	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Endosulfan I	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Endosulfan II	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Endosulfan II	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Endosulfan sulfate	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Endosulfan sulfate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Endrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Endrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Endrin aldehyde	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Endrin aldehyde	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Endrin ketone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Ethane	RSK-175	Volatile Organics	NELAP	4/30/2008
Ethyl methacrylate	EPA 8260	Volatile Organics	NELAP	7/1/2003
Ethyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	7/1/2003

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Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Ethylbenzene	EPA 624	Volatile Organics	NELAP	3/18/2004
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	3/18/2004
Ethylene	RSK-175	Volatile Organics	NELAP	4/30/2008
Famphur	EPA 8270	Extractable Organics	NELAP	7/1/2003
Fluoranthene	EPA 625	Extractable Organics	NELAP	3/18/2004
Fluoranthene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Fluorene	EPA 625	Extractable Organics	NELAP	3/18/2004
Fluorene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Fluoride	EPA 300.0	General Chemistry	NELAP	10/7/2002
Fluoride	EPA 9056	General Chemistry	NELAP	7/1/2003
Formaldehyde	EPA 8315	Extractable Organics	NELAP	10/20/2008
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
gamma-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Gasoline range organics (GRO)	EPA 8015	Extractable Organics	NELAP	7/1/2003
Hardness	EPA 130.2	General Chemistry	NELAP	4/29/2004
Hardness	SM 2340 B	General Chemistry	NELAP	11/13/2007
Hardness	SM 2340 C	General Chemistry	NELAP	11/13/2007
Heptachlor	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Heptachlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Heptachlor epoxide	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Heptachlor epoxide	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Hexachlorobenzene	EPA 625	Extractable Organics	NELAP	3/18/2004
Hexachlorobenzene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Hexachlorobutadiene	EPA 625	Extractable Organics	NELAP	3/18/2004
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Hexachlorobutadiene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Hexachlorocyclopentadiene	EPA 625	Extractable Organics	NELAP	3/18/2004
Hexachlorocyclopentadiene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Hexachloroethane	EPA 625	Extractable Organics	NELAP	3/18/2004
Hexachloroethane	EPA 8270	Extractable Organics	NELAP	3/18/2004
Hexachloropropene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Ignitability	EPA 1010	General Chemistry	NELAP	7/1/2003
Indeno(1,2,3-cd)pyrene	EPA 625	Extractable Organics	NELAP	3/18/2004
Indeno(1,2,3-cd)pyrene	EPA 8270	Extractable Organics	NELAP	3/18/2004

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Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Iron	EPA 200.7	Metals	NELAP	3/18/2004
Iron	EPA 6010	Metals	NELAP	7/1/2003
Iron	EPA 6020	Metals	NELAP	5/15/2007
Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Isodrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Isophorone	EPA 625	Extractable Organics	NELAP	3/18/2004
Isophorone	EPA 8270	Extractable Organics	NELAP	3/18/2004
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Isosafrole	EPA 8270	Extractable Organics	NELAP	7/1/2003
Kepone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Kjeldahl nitrogen - total	EPA 351.3	General Chemistry	NELAP	4/29/2004
Kjeldahl nitrogen - total	SM 4500-NH3 E (18th Ed.)/TITR	General Chemistry	NELAP	4/30/2008
Lead	EPA 200.7	Metals	NELAP	3/18/2004
Lead	EPA 200.8	Metals	NELAP	3/18/2004
Lead	EPA 6010	Metals	NELAP	4/29/2004
Lead	EPA 6020	Metals	NELAP	4/29/2004
Magnesium	EPA 200.7	Metals	NELAP	5/15/2004
Magnesium	EPA 6010	Metals	NELAP	7/1/2003
Magnesium	EPA 6020	Metals	NELAP	8/3/2005
Manganese	EPA 200.7	Metals	NELAP	3/18/2004
Manganese	EPA 200.8	Metals	NELAP	3/18/2004
Manganese	EPA 6010	Metals	NELAP	7/1/2003
Manganese	EPA 6020	Metals	NELAP	7/1/2003
MCPA	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
MCPP	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Mercury	EPA 1631	Metals	NELAP	3/18/2004
Mercury	EPA 245.1	Metals	NELAP	3/18/2004
Mercury	EPA 7470	Metals	NELAP	3/18/2004
Methacrylonitrile	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methane	RSK-175	Volatile Organics	NELAP	4/30/2008
Methapyrilene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Methoxychlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/29/2004
Methyl bromide (Bromomethane)	EPA 624	Volatile Organics	NELAP	3/18/2004
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	3/18/2004
Methyl chloride (Chloromethane)	EPA 624	Volatile Organics	NELAP	3/18/2004

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Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	3/18/2004
Methyl mercury	EPA 1630	Metals	NELAP	7/28/2009
Methyl methacrylate	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Methyl tert-butyl ether (MTBE)	EPA 624	Volatile Organics	NELAP	10/9/2012
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methylene chloride	EPA 624	Volatile Organics	NELAP	3/18/2004
Methylene chloride	EPA 8260	Volatile Organics	NELAP	3/18/2004
Molybdenum	EPA 200.7	Metals	NELAP	3/18/2004
Molybdenum	EPA 200.8	Metals	NELAP	10/7/2002
Molybdenum	EPA 6010	Metals	NELAP	7/1/2003
Molybdenum	EPA 6020	Metals	NELAP	7/1/2003
Naphthalene	EPA 624	Volatile Organics	NELAP	10/9/2012
Naphthalene	EPA 625	Extractable Organics	NELAP	3/18/2004
Naphthalene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Naphthalene	EPA 8270	Extractable Organics	NELAP	3/18/2004
n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Nickel	EPA 200.7	Metals	NELAP	3/18/2004
Nickel	EPA 200.8	Metals	NELAP	3/18/2004
Nickel	EPA 6010	Metals	NELAP	4/29/2004
Nickel	EPA 6020	Metals	NELAP	4/29/2004
Nitrate	EPA 300.0	General Chemistry	NELAP	4/29/2004
Nitrate	EPA 9056	General Chemistry	NELAP	7/1/2003
Nitrite	EPA 300.0	General Chemistry	NELAP	4/29/2004
Nitrite	EPA 9056	General Chemistry	NELAP	7/1/2003
Nitrobenzene	EPA 625	Extractable Organics	NELAP	3/18/2004
Nitrobenzene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Nitroquinoline-1-oxide	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodiethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodimethylamine	EPA 625	Extractable Organics	NELAP	3/18/2004
n-Nitrosodimethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitroso-di-n-butylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodi-n-propylamine	EPA 625	Extractable Organics	NELAP	3/18/2004
n-Nitrosodi-n-propylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodiphenylamine	EPA 625	Extractable Organics	NELAP	3/18/2004
n-Nitrosodiphenylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003

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Analyte	Method/Tech	Category	Certification Type	Effective Date
n-Nitrosomethylethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosomorpholine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosopiperidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosopyrrolidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
o,o,o-Triethyl phosphorothioate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Oil & Grease	EPA 1664A	General Chemistry	NELAP	9/23/2011
Organic nitrogen	EPA 351.3 - EPA 350.2	General Chemistry	NELAP	10/7/2002
Orthophosphate as P	EPA 300.0	General Chemistry	NELAP	10/7/2002
Orthophosphate as P	EPA 365.1	General Chemistry	NELAP	8/3/2005
Orthophosphate as P	EPA 9056	General Chemistry	NELAP	7/1/2003
Orthophosphate as P	SM 4500-P E	General Chemistry	NELAP	11/13/2007
o-Toluidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pentachlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pentachloronitrobenzene (Quintozene)	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pentachlorophenol	EPA 625	Extractable Organics	NELAP	3/18/2004
Pentachlorophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
pH	EPA 150.1	General Chemistry	NELAP	10/7/2002
pH	EPA 9040	General Chemistry	NELAP	4/29/2004
pH	SM 4500-H+-B	General Chemistry	NELAP	11/13/2007
Phenacetin	EPA 8270	Extractable Organics	NELAP	7/1/2003
Phenanthrene	EPA 625	Extractable Organics	NELAP	3/18/2004
Phenanthrene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Phenol	EPA 625	Extractable Organics	NELAP	3/18/2004
Phenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
Phorate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Phosphorus, total	EPA 365.1	General Chemistry	NELAP	8/3/2005
Phosphorus, total	SM 4500-P E	General Chemistry	NELAP	11/13/2007
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Potassium	EPA 200.7	Metals	NELAP	5/15/2004
Potassium	EPA 6010	Metals	NELAP	7/1/2003
Pronamide (Kerb)	EPA 8270	Extractable Organics	NELAP	7/1/2003
Propionitrile (Ethyl cyanide)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Pyrene	EPA 625	Extractable Organics	NELAP	3/18/2004
Pyrene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Pyridine	EPA 8270	Extractable Organics	NELAP	7/1/2003

Laboratory Scope of Accreditation

Attachment to Certificate #: E87225-44, expiration date June 30, 2013. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87225** EPA Lab Code: **OH00048** **(330) 497-9396**

E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Residue-filterable (TDS)	EPA 160.1	General Chemistry	NELAP	4/29/2004
Residue-filterable (TDS)	SM 2540 C	General Chemistry	NELAP	11/13/2007
Residue-nonfilterable (TSS)	EPA 160.2	General Chemistry	NELAP	4/29/2004
Residue-nonfilterable (TSS)	SM 2540 D	General Chemistry	NELAP	11/13/2007
Residue-total	EPA 160.3	General Chemistry	NELAP	4/29/2004
Residue-total	SM 2540 B	General Chemistry	NELAP	11/13/2007
Residue-volatile	EPA 160.4	General Chemistry	NELAP	10/7/2002
Safrole	EPA 8270	Extractable Organics	NELAP	7/1/2003
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Selenium	EPA 200.7	Metals	NELAP	3/18/2004
Selenium	EPA 200.8	Metals	NELAP	5/15/2007
Selenium	EPA 6010	Metals	NELAP	4/29/2004
Selenium	EPA 6020	Metals	NELAP	5/15/2007
Silver	EPA 200.7	Metals	NELAP	3/18/2004
Silver	EPA 200.8	Metals	NELAP	3/18/2004
Silver	EPA 6010	Metals	NELAP	4/29/2004
Silver	EPA 6020	Metals	NELAP	4/29/2004
Silvex (2,4,5-TP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Sodium	EPA 200.7	Metals	NELAP	5/15/2004
Sodium	EPA 6010	Metals	NELAP	7/1/2003
Sodium	EPA 6020	Metals	NELAP	8/3/2005
Strontium	EPA 6020	Metals	NELAP	8/3/2005
Styrene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Sulfate	EPA 300.0	General Chemistry	NELAP	10/7/2002
Sulfate	EPA 375.4	General Chemistry	NELAP	4/29/2004
Sulfate	EPA 9056	General Chemistry	NELAP	7/1/2003
Sulfide	EPA 376.1	General Chemistry	NELAP	4/29/2004
Sulfide	EPA 9030/9034	General Chemistry	NELAP	4/29/2004
Sulfide	SM 4500-S E (18th Ed.)/TITR	General Chemistry	NELAP	1/9/2008
Sulfotepp	EPA 8270	Extractable Organics	NELAP	7/1/2003
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Tetrachloroethylene (Perchloroethylene)	EPA 624	Volatile Organics	NELAP	3/18/2004
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	3/18/2004
Thallium	EPA 200.7	Metals	NELAP	3/18/2004
Thallium	EPA 200.8	Metals	NELAP	3/18/2004
Thallium	EPA 6010	Metals	NELAP	7/1/2003

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State Laboratory ID: **E87225** EPA Lab Code: **OH00048** **(330) 497-9396**

E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Thallium	EPA 6020	Metals	NELAP	7/1/2003
Thionazin (Zinophos)	EPA 8270	Extractable Organics	NELAP	7/1/2003
Tin	EPA 200.7	Metals	NELAP	3/18/2004
Tin	EPA 200.8	Metals	NELAP	10/7/2002
Tin	EPA 6010	Metals	NELAP	7/1/2003
Tin	EPA 6020	Metals	NELAP	8/3/2005
Titanium	EPA 200.7	Metals	NELAP	5/15/2004
Titanium	EPA 6010	Metals	NELAP	7/1/2003
Titanium	EPA 6020	Metals	NELAP	8/3/2005
Toluene	EPA 624	Volatile Organics	NELAP	3/18/2004
Toluene	EPA 8260	Volatile Organics	NELAP	3/18/2004
Total cyanide	EPA 335.4	General Chemistry	NELAP	10/7/2002
Total cyanide	EPA 9012	General Chemistry	NELAP	4/29/2004
Total organic carbon	EPA 415.1	General Chemistry	NELAP	10/7/2002
Total organic carbon	EPA 9060	General Chemistry	NELAP	7/1/2003
Total organic carbon	SM 5310 C	General Chemistry	NELAP	4/30/2008
Total Petroleum Hydrocarbons (TPH)	EPA 1664A	General Chemistry	NELAP	4/29/2004
Total phenolics	EPA 420.1	General Chemistry	NELAP	4/29/2004
Total phenolics	EPA 9065	General Chemistry	NELAP	7/1/2003
Toxaphene (Chlorinated camphene)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Toxaphene (Chlorinated camphene)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
trans-1,2-Dichloroethylene	EPA 624	Volatile Organics	NELAP	10/7/2002
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
trans-1,3-Dichloropropene	EPA 624	Volatile Organics	NELAP	3/18/2004
trans-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	3/18/2004
trans-1,4-Dichloro-2-butene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Trichloroethene (Trichloroethylene)	EPA 624	Volatile Organics	NELAP	3/18/2004
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	3/18/2004
Trichlorofluoromethane	EPA 624	Volatile Organics	NELAP	3/18/2004
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
Turbidity	EPA 180.1	General Chemistry	NELAP	10/7/2002
Vanadium	EPA 200.7	Metals	NELAP	3/18/2004
Vanadium	EPA 200.8	Metals	NELAP	5/15/2007
Vanadium	EPA 6010	Metals	NELAP	7/1/2003
Vanadium	EPA 6020	Metals	NELAP	5/15/2007
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	7/1/2003

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E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Vinyl chloride	EPA 624	Volatile Organics	NELAP	3/18/2004
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	6/16/2004
Xylene (total)	EPA 624	Volatile Organics	NELAP	9/1/2004
Xylene (total)	EPA 8260	Volatile Organics	NELAP	9/1/2004
Zinc	EPA 200.7	Metals	NELAP	3/18/2004
Zinc	EPA 200.8	Metals	NELAP	5/15/2007
Zinc	EPA 6010	Metals	NELAP	7/1/2003
Zinc	EPA 6020	Metals	NELAP	5/15/2007

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E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	10/7/2002
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	10/7/2002
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	10/7/2002
1,2,4,5-Tetrachlorobenzene	EPA 8270	Extractable Organics	NELAP	10/7/2002
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	10/7/2002
1,2,4-Trichlorobenzene	EPA 8270	Extractable Organics	NELAP	3/18/2004
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	10/7/2002
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	10/7/2002
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	10/7/2002
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,2-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	10/7/2002
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,2-Dinitrobenzene	EPA 8270	Extractable Organics	NELAP	10/7/2002
1,2-Diphenylhydrazine	EPA 8270	Extractable Organics	NELAP	10/7/2002
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	10/7/2002
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8270	Extractable Organics	NELAP	4/6/2009
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,3-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	10/7/2002
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	10/7/2002
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270	Extractable Organics	NELAP	4/6/2009
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	3/18/2004
1,4-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	10/7/2002
1,4-Dinitrobenzene	EPA 8270	Extractable Organics	NELAP	10/7/2002
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260	Volatile Organics	NELAP	10/7/2002
1,4-Naphthoquinone	EPA 8270	Extractable Organics	NELAP	10/7/2002
1,4-Phenylenediamine	EPA 8270	Extractable Organics	NELAP	10/7/2002
1-Naphthylamine	EPA 8270	Extractable Organics	NELAP	10/7/2002
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	10/7/2002
2,3,4,6-Tetrachlorophenol	EPA 8270	Extractable Organics	NELAP	10/7/2002
2,4,5-T	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	3/18/2004

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TestAmerica - North Canton
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North Canton, OH 44720-6961

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
2,4,5-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	10/7/2002
2,4,6-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2,4-D	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
2,4-DB	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	10/7/2002
2,4-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2,4-Dimethylphenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2,4-Dinitrophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270	Extractable Organics	NELAP	3/18/2004
2,6-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	10/7/2002
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270	Extractable Organics	NELAP	3/18/2004
2-Acetylaminofluorene	EPA 8270	Extractable Organics	NELAP	10/7/2002
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	10/7/2002
2-Chloroethyl vinyl ether	EPA 8260	Volatile Organics	NELAP	3/18/2004
2-Chloronaphthalene	EPA 8270	Extractable Organics	NELAP	3/18/2004
2-Chlorophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	10/7/2002
2-Hexanone	EPA 8260	Volatile Organics	NELAP	10/7/2002
2-Methyl-4,6-dinitrophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	10/7/2002
2-Methylphenol (o-Cresol)	EPA 8270	Extractable Organics	NELAP	10/7/2002
2-Naphthylamine	EPA 8270	Extractable Organics	NELAP	10/7/2002
2-Nitroaniline	EPA 8270	Extractable Organics	NELAP	10/7/2002
2-Nitrophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
2-Picoline (2-Methylpyridine)	EPA 8270	Extractable Organics	NELAP	10/7/2002
3,3'-Dichlorobenzidine	EPA 8270	Extractable Organics	NELAP	10/7/2002
3,3'-Dimethylbenzidine	EPA 8270	Extractable Organics	NELAP	10/7/2002
3/4-Methylphenols (m/p-Cresols)	EPA 8270	Extractable Organics	NELAP	1/10/2011
3-Methylcholanthrene	EPA 8270	Extractable Organics	NELAP	10/7/2002
3-Nitroaniline	EPA 8270	Extractable Organics	NELAP	10/7/2002
4,4'-DDD	EPA 8081	Volatile Organics	NELAP	3/18/2004
4,4'-DDE	EPA 8081	Volatile Organics	NELAP	3/18/2004
4,4'-DDT	EPA 8081	Volatile Organics	NELAP	3/18/2004
4,4'-Methylenebis(2-chloroaniline)	EPA 8270	Extractable Organics	NELAP	10/7/2002
4-Aminobiphenyl	EPA 8270	Extractable Organics	NELAP	10/7/2002
4-Bromophenyl phenyl ether	EPA 8270	Extractable Organics	NELAP	10/7/2002
4-Chloro-3-methylphenol	EPA 8270	Extractable Organics	NELAP	3/18/2004

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E87225
TestAmerica - North Canton
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North Canton, OH 44720-6961

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
4-Chloroaniline	EPA 8270	Extractable Organics	NELAP	10/7/2002
4-Chlorophenyl phenylether	EPA 8270	Extractable Organics	NELAP	10/7/2002
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	10/7/2002
4-Dimethyl aminoazobenzene	EPA 8270	Extractable Organics	NELAP	10/7/2002
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	10/7/2002
4-Nitroaniline	EPA 8270	Extractable Organics	NELAP	10/7/2002
4-Nitrophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
5-Nitro-o-toluidine	EPA 8270	Extractable Organics	NELAP	10/7/2002
7,12-Dimethylbenz(a) anthracene	EPA 8270	Extractable Organics	NELAP	10/7/2002
a,a-Dimethylphenethylamine	EPA 8270	Extractable Organics	NELAP	10/7/2002
Acenaphthene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Acenaphthylene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Acetone	EPA 8260	Volatile Organics	NELAP	10/7/2002
Acetonitrile	EPA 8260	Volatile Organics	NELAP	10/7/2002
Acetophenone	EPA 8270	Extractable Organics	NELAP	10/7/2002
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	3/18/2004
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	3/18/2004
Aldrin	EPA 8081	Volatile Organics	NELAP	3/18/2004
Allyl chloride (3-Chloropropene)	EPA 8260	Volatile Organics	NELAP	10/7/2002
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081	Volatile Organics	NELAP	3/18/2004
alpha-Chlordane	EPA 8081	Extractable Organics	NELAP	10/7/2002
Aluminum	EPA 6010	Metals	NELAP	10/7/2002
Aluminum	EPA 6020	Metals	NELAP	4/7/2008
Amenable cyanide	EPA 9012	General Chemistry	NELAP	10/7/2002
Aniline	EPA 8270	Extractable Organics	NELAP	10/7/2002
Anthracene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Antimony	EPA 6010	Metals	NELAP	3/18/2004
Antimony	EPA 6020	Metals	NELAP	3/18/2004
Aramite	EPA 8270	Extractable Organics	NELAP	10/7/2002
Aroclor-1016 (PCB-1016)	EPA 8082	Extractable Organics	NELAP	3/18/2004
Aroclor-1221 (PCB-1221)	EPA 8082	Extractable Organics	NELAP	3/18/2004
Aroclor-1232 (PCB-1232)	EPA 8082	Extractable Organics	NELAP	3/18/2004
Aroclor-1242 (PCB-1242)	EPA 8082	Extractable Organics	NELAP	3/18/2004
Aroclor-1248 (PCB-1248)	EPA 8082	Extractable Organics	NELAP	3/18/2004
Aroclor-1254 (PCB-1254)	EPA 8082	Extractable Organics	NELAP	3/18/2004
Aroclor-1260 (PCB-1260)	EPA 8082	Extractable Organics	NELAP	3/18/2004

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Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Arsenic	EPA 6010	Metals	NELAP	3/18/2004
Arsenic	EPA 6020	Metals	NELAP	3/18/2004
Barium	EPA 6010	Metals	NELAP	3/18/2004
Barium	EPA 6020	Metals	NELAP	3/18/2004
Benzene	EPA 8260	Volatile Organics	NELAP	3/18/2004
Benzidine	EPA 8270	Extractable Organics	NELAP	10/7/2002
Benzo(a)anthracene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Benzo(a)pyrene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Benzo(b)fluoranthene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Benzo(g,h,i)perylene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Benzo(k)fluoranthene	EPA 8270	Extractable Organics	NELAP	10/7/2002
Benzoic acid	EPA 8270	Extractable Organics	NELAP	10/7/2002
Benzyl alcohol	EPA 8270	Extractable Organics	NELAP	10/7/2002
Beryllium	EPA 6010	Metals	NELAP	10/7/2002
Beryllium	EPA 6020	Metals	NELAP	10/7/2002
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081	Volatile Organics	NELAP	3/18/2004
bis(2-Chloroethoxy)methane	EPA 8270	Extractable Organics	NELAP	6/16/2004
bis(2-Chloroethyl) ether	EPA 8270	Extractable Organics	NELAP	10/7/2002
bis(2-Chloroisopropyl) ether (2,2'-Oxybis(1-chloropropane))	EPA 8270	Extractable Organics	NELAP	3/18/2004
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 8270	Extractable Organics	NELAP	12/18/2006
Boron	EPA 6010	Metals	NELAP	10/7/2002
Boron	EPA 6020	Metals	NELAP	4/7/2008
Bromide	EPA 9056	General Chemistry	NELAP	10/7/2002
Bromobenzene	EPA 8260	Volatile Organics	NELAP	10/7/2002
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	10/7/2002
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
Bromoform	EPA 8260	Volatile Organics	NELAP	3/18/2004
Butyl benzyl phthalate	EPA 8270	Extractable Organics	NELAP	3/18/2004
Cadmium	EPA 6010	Metals	NELAP	3/18/2004
Cadmium	EPA 6020	Metals	NELAP	6/10/2004
Calcium	EPA 6010	Metals	NELAP	10/7/2002
Carbazole	EPA 8270	Extractable Organics	NELAP	10/7/2002
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	10/7/2002
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	3/18/2004
Chlordane (tech.)	EPA 8081	Volatile Organics	NELAP	3/18/2004
Chloride	EPA 9056	General Chemistry	NELAP	10/7/2002

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TestAmerica - North Canton
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Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	3/18/2004
Chlorobenzilate	EPA 8081	Extractable Organics	NELAP	10/7/2002
Chlorobenzilate	EPA 8270	Extractable Organics	NELAP	10/7/2002
Chloroethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
Chloroform	EPA 8260	Volatile Organics	NELAP	3/18/2004
Chloroprene	EPA 8260	Volatile Organics	NELAP	10/7/2002
Chromium	EPA 6010	Metals	NELAP	3/18/2004
Chromium	EPA 6020	Metals	NELAP	3/18/2004
Chromium VI	EPA 7196	General Chemistry	NELAP	4/29/2004
Chrysene	EPA 8270	Extractable Organics	NELAP	3/18/2004
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	10/7/2002
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	3/18/2004
Cobalt	EPA 6010	Metals	NELAP	10/7/2002
Cobalt	EPA 6020	Metals	NELAP	10/7/2002
Copper	EPA 6010	Metals	NELAP	10/7/2002
Copper	EPA 6020	Metals	NELAP	3/18/2004
Dalapon	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	10/7/2002
delta-BHC	EPA 8081	Volatile Organics	NELAP	3/18/2004
Diallate	EPA 8081	Extractable Organics	NELAP	10/7/2002
Diallate	EPA 8270	Extractable Organics	NELAP	10/7/2002
Dibenz(a,h)anthracene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Dibenzofuran	EPA 8270	Extractable Organics	NELAP	10/7/2002
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
Dibromomethane	EPA 8260	Volatile Organics	NELAP	10/7/2002
Dicamba	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
Dichloroprop (Dichlorprop)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	10/7/2002
Dieldrin	EPA 8081	Volatile Organics	NELAP	3/18/2004
Diesel range organics (DRO)	EPA 8015	Extractable Organics	NELAP	1/6/2009
Diethyl phthalate	EPA 8270	Extractable Organics	NELAP	3/18/2004
Dimethoate	EPA 8270	Extractable Organics	NELAP	10/7/2002
Dimethyl phthalate	EPA 8270	Extractable Organics	NELAP	3/18/2004
Di-n-butyl phthalate	EPA 8270	Extractable Organics	NELAP	3/18/2004
Di-n-octyl phthalate	EPA 8270	Extractable Organics	NELAP	3/18/2004
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	10/7/2002
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270	Extractable Organics	NELAP	4/6/2009

Attachment to Certificate #: E87225-44, expiration date June 30, 2013. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87225** EPA Lab Code: **OH00048** **(330) 497-9396**

E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Diphenylamine	EPA 8270	Extractable Organics	NELAP	10/7/2002
Disulfoton	EPA 8270	Extractable Organics	NELAP	4/6/2009
Endosulfan I	EPA 8081	Volatile Organics	NELAP	3/18/2004
Endosulfan II	EPA 8081	Volatile Organics	NELAP	3/18/2004
Endosulfan sulfate	EPA 8081	Volatile Organics	NELAP	3/18/2004
Endrin	EPA 8081	Volatile Organics	NELAP	3/18/2004
Endrin aldehyde	EPA 8081	Volatile Organics	NELAP	3/18/2004
Endrin ketone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	10/7/2002
Ethyl methacrylate	EPA 8260	Volatile Organics	NELAP	10/7/2002
Ethyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	10/7/2002
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	3/18/2004
Famphur	EPA 8270	Extractable Organics	NELAP	10/7/2002
Fluoranthene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Fluorene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Fluoride	EPA 9056	General Chemistry	NELAP	4/6/2009
Formaldehyde	EPA 8315	Extractable Organics	NELAP	10/20/2008
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081	Volatile Organics	NELAP	3/18/2004
gamma-Chlordane	EPA 8081	Extractable Organics	NELAP	10/7/2002
Gasoline range organics (GRO)	EPA 8015	Extractable Organics	NELAP	1/6/2009
Heptachlor	EPA 8081	Volatile Organics	NELAP	3/18/2004
Heptachlor epoxide	EPA 8081	Volatile Organics	NELAP	3/18/2004
Hexachlorobenzene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	10/7/2002
Hexachlorobutadiene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Hexachlorocyclopentadiene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Hexachloroethane	EPA 8270	Extractable Organics	NELAP	3/18/2004
Hexachloropropene	EPA 8270	Extractable Organics	NELAP	10/7/2002
Ignitability	EPA 1010	General Chemistry	NELAP	1/6/2009
Indeno(1,2,3-cd)pyrene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	10/7/2002
Iron	EPA 6010	Metals	NELAP	10/7/2002
Iron	EPA 6020	Metals	NELAP	4/30/2008
Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260	Volatile Organics	NELAP	10/7/2002
Isodrin	EPA 8081	Extractable Organics	NELAP	10/7/2002
Isophorone	EPA 8270	Extractable Organics	NELAP	3/18/2004
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	10/7/2002

Laboratory Scope of Accreditation

Attachment to Certificate #: E87225-44, expiration date June 30, 2013. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87225** EPA Lab Code: **OH00048** **(330) 497-9396**

E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Isosafrole	EPA 8270	Extractable Organics	NELAP	10/7/2002
Kepone	EPA 8081	Extractable Organics	NELAP	10/7/2002
Lead	EPA 6010	Metals	NELAP	3/18/2004
Lead	EPA 6020	Metals	NELAP	3/18/2004
Magnesium	EPA 6010	Metals	NELAP	10/7/2002
Magnesium	EPA 6020	Metals	NELAP	4/7/2008
Manganese	EPA 6010	Metals	NELAP	10/7/2002
Manganese	EPA 6020	Metals	NELAP	10/7/2002
MCPA	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	10/7/2002
MCPP	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	10/7/2002
Mercury	EPA 7471	Metals	NELAP	4/29/2004
Methacrylonitrile	EPA 8260	Volatile Organics	NELAP	10/7/2002
Methapyrilene	EPA 8270	Extractable Organics	NELAP	10/7/2002
Methoxychlor	EPA 8081	Volatile Organics	NELAP	4/29/2004
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	3/18/2004
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	3/18/2004
Methyl mercury	NC-GC-039 Revision 1/GC-CVAFS	Metals	NELAP	7/28/2009
Methyl methacrylate	EPA 8260	Volatile Organics	NELAP	10/7/2002
Methyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	10/7/2002
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	10/7/2002
Methylene chloride	EPA 8260	Volatile Organics	NELAP	3/18/2004
Molybdenum	EPA 6010	Metals	NELAP	10/7/2002
Molybdenum	EPA 6020	Metals	NELAP	10/7/2002
Naphthalene	EPA 8260	Volatile Organics	NELAP	10/7/2002
Naphthalene	EPA 8270	Extractable Organics	NELAP	3/18/2004
n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	10/7/2002
Nickel	EPA 6010	Metals	NELAP	3/18/2004
Nickel	EPA 6020	Metals	NELAP	3/18/2004
Nitrate	EPA 9056	General Chemistry	NELAP	4/6/2009
Nitrite	EPA 9056	General Chemistry	NELAP	10/7/2002
Nitrobenzene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Nitroquinoline-1-oxide	EPA 8270	Extractable Organics	NELAP	10/7/2002
n-Nitrosodiethylamine	EPA 8270	Extractable Organics	NELAP	10/7/2002
n-Nitrosodimethylamine	EPA 8270	Extractable Organics	NELAP	10/7/2002
n-Nitroso-di-n-butylamine	EPA 8270	Extractable Organics	NELAP	10/7/2002
n-Nitrosodi-n-propylamine	EPA 8270	Extractable Organics	NELAP	10/7/2002

Attachment to Certificate #: E87225-44, expiration date June 30, 2013. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87225** EPA Lab Code: **OH00048** **(330) 497-9396**

E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
n-Nitrosodiphenylamine	EPA 8270	Extractable Organics	NELAP	10/7/2002
n-Nitrosomethylethylamine	EPA 8270	Extractable Organics	NELAP	10/7/2002
n-Nitrosomorpholine	EPA 8270	Extractable Organics	NELAP	10/7/2002
n-Nitrosopiperidine	EPA 8270	Extractable Organics	NELAP	10/7/2002
n-Nitrosopyrrolidine	EPA 8270	Extractable Organics	NELAP	10/7/2002
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	10/7/2002
o,o,o-Triethyl phosphorothioate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	10/7/2002
Orthophosphate as P	EPA 9056	General Chemistry	NELAP	4/6/2009
o-Toluidine	EPA 8270	Extractable Organics	NELAP	10/7/2002
Pentachlorobenzene	EPA 8270	Extractable Organics	NELAP	10/7/2002
Pentachloronitrobenzene (Quintozene)	EPA 8270	Extractable Organics	NELAP	10/7/2002
Pentachlorophenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
pH	EPA 9040	General Chemistry	NELAP	7/28/2009
pH	EPA 9045	General Chemistry	NELAP	7/28/2009
Phenacetin	EPA 8270	Extractable Organics	NELAP	10/7/2002
Phenanthrene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Phenol	EPA 8270	Extractable Organics	NELAP	3/18/2004
Phorate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	10/7/2002
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	10/7/2002
Potassium	EPA 6010	Metals	NELAP	10/7/2002
Pronamide (Kerb)	EPA 8270	Extractable Organics	NELAP	10/7/2002
Propionitrile (Ethyl cyanide)	EPA 8260	Volatile Organics	NELAP	10/7/2002
Pyrene	EPA 8270	Extractable Organics	NELAP	3/18/2004
Pyridine	EPA 8270	Extractable Organics	NELAP	10/7/2002
Safrole	EPA 8270	Extractable Organics	NELAP	10/7/2002
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	10/7/2002
Selenium	EPA 6010	Metals	NELAP	3/18/2004
Selenium	EPA 6020	Metals	NELAP	3/18/2004
Silver	EPA 6010	Metals	NELAP	3/18/2004
Silver	EPA 6020	Metals	NELAP	3/18/2004
Silvex (2,4,5-TP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	3/18/2004
Sodium	EPA 6010	Metals	NELAP	10/7/2002
Sodium	EPA 6020	Metals	NELAP	4/7/2008
Strontium	EPA 6020	Metals	NELAP	8/3/2005
Styrene	EPA 8260	Volatile Organics	NELAP	10/7/2002
Sulfate	EPA 9056	General Chemistry	NELAP	4/6/2009

Laboratory Scope of Accreditation

Attachment to Certificate #: E87225-44, expiration date June 30, 2013. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87225** EPA Lab Code: **OH00048** **(330) 497-9396**

E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Sulfide	EPA 9030/9034	General Chemistry	NELAP	6/16/2004
Sulfotepp	EPA 8270	Extractable Organics	NELAP	10/7/2002
Synthetic Precipitation Leaching Procedure	EPA 1312	General Chemistry	NELAP	8/3/2005
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	10/7/2002
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	3/18/2004
Thallium	EPA 6010	Metals	NELAP	10/7/2002
Thallium	EPA 6020	Metals	NELAP	10/7/2002
Thionazin (Zinophos)	EPA 8270	Extractable Organics	NELAP	10/7/2002
Tin	EPA 6010	Metals	NELAP	10/7/2002
Tin	EPA 6020	Metals	NELAP	4/30/2008
Titanium	EPA 6010	Metals	NELAP	10/7/2002
Titanium	EPA 6020	Metals	NELAP	8/3/2005
Toluene	EPA 8260	Volatile Organics	NELAP	3/18/2004
Total cyanide	EPA 9012	General Chemistry	NELAP	4/29/2004
Total organic carbon	WALKLEY-BLACK	General Chemistry	NELAP	1/10/2011
Total phenolics	EPA 9065	General Chemistry	NELAP	10/7/2002
Toxaphene (Chlorinated camphene)	EPA 8081	Volatile Organics	NELAP	3/18/2004
Toxicity Characteristic Leaching Procedure	EPA 1311	General Chemistry	NELAP	4/29/2004
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	10/7/2002
trans-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	3/18/2004
trans-1,4-Dichloro-2-butene	EPA 8260	Volatile Organics	NELAP	10/7/2002
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	3/18/2004
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	3/18/2004
Vanadium	EPA 6010	Metals	NELAP	10/7/2002
Vanadium	EPA 6020	Metals	NELAP	8/3/2005
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	10/7/2002
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	3/18/2004
Xylene (total)	EPA 8260	Volatile Organics	NELAP	3/18/2004
Zinc	EPA 6010	Metals	NELAP	10/7/2002
Zinc	EPA 6020	Metals	NELAP	10/7/2002

Laboratory Scope of Accreditation

Attachment to Certificate #: E87225-44, expiration date June 30, 2013. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87225** EPA Lab Code: **OH00048** **(330) 497-9396**

E87225
TestAmerica - North Canton
4101 Shuffel St NW
North Canton, OH 44720-6961

Matrix: **Biological Tissue**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Methyl mercury	NC-GC-039 Revision 1/GC-CVAFS	Metals	NELAP	7/28/2009

FIELD SAMPLING FORMS

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **MW-3 Purge** DEPTH TO PRODUCT:_____ DATE: 1-10-13

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1725

SAMPLE METHOD: Pump GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 43.18 DEPTH TO PUMP (btoc) 57.0'

TOTAL DEPTH: 60.0

60.0-43.18=16.82X0.17=2.86X3=8.58

Arrived at:_____ PURGE VOLUME: 8.75 WELL DIAMETER (inches): 2-IN

Initial PID = _____

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1523	0.25	5.18	23.5	0.08	24.1	( )	44.02
1533	1.0	4.52	22.8	0.06	35.6		
1546	2.0	4.67	22.6	0.06	28.1		
1600	3.0	4.73	22.4	0.06	21.3		
1613	4.0	4.82	22.2	0.07	16.1		
1626	5.0	4.88	22.2	0.07	11.2		
1640	6.0	4.91	22.2	0.08	8.25		
1653	7.0	4.90	22.2	0.07	6.71		
1700	7.5	4.91	22.1	0.07	3.53		
1706	8.0	4.91	22.1	0.08	3.38		
1713	8.5	4.91	22.1	0.07	2.54		
1720	9.0	4.91	22.1	0.07			
1725	collect sample						

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane
~~40 mL~~	~~3~~ 4			

GENERAL INFORMATION	
WEATHER:	Cool - Cloudy - Humid
SHIPPED VIA:	FedEX
SHIPPED TO:	Test America-North Canton, OH
SAMPLER: Ever Guillen	OBSERVER:

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **MW-5 Purge** DEPTH TO PRODUCT:_____ DATE: 1-10-13

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1435

SAMPLE METHOD: Pump GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 41.06 DEPTH TO PUMP (btoc) 51.0'

TOTAL DEPTH: 54.00

54.0-41.06=12.94x0.17=2.20x3=6.60

Arrived at:_____ PURGE VOLUME: 6.75 WELL DIAMETER (inches): 2-IN

Initial PID = _____

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1215	0.25	5.36	21.3	0.09	3.34	200 ( )	41.62
1230	1.0	5.42	21.0	0.09	2.48		
1250	2.0	5.48	21.1	0.10	2.27		
1310	3.0	5.48	21.1	0.10	2.06		
1330	4.0	5.47	21.1	0.10	1.44		
1350	5.0	5.49	21.0	0.10	1.37		
1400	5.5	5.50	21.0	0.10	1.29		
1410	6.0	5.50	21.0	0.10	1.19		
1420	6.5	5.50	21.0	0.10	1.21		
1430	7.0	5.50	21.0	0.10	1.14		
1435	Collect						

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane
40 mL	3	HCL to pH<2	SIM	14 Dioxane

GENERAL INFORMATION	
WEATHER:	Cool - Cloudy - Humid
SHIPPED VIA:	FedEX
SHIPPED TO:	Test America-North Canton, OH
SAMPLER: Ever Guillen	OBSERVER:

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **MW-10 Purge** DEPTH TO PRODUCT:_____ DATE: 1-10-13

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1115

SAMPLE METHOD: Pump GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 30.03 DEPTH TO PUMP (btoc) 40.0

TOTAL DEPTH: 47.52

47.52 - 30.03 = 17.49 x 0.17 = 2.97 x 3 = 8.92

Arrived at:_____ PURGE VOLUME: 9.0 WELL DIAMETER (inches): 2-IN

Initial PID = _____

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 923	1.0	4.13	20.1	0.03	5.63	300 ( )	31.63
936	2.0	4.22	20.2	0.03	3.58		
950	3.0	4.64	20.2	0.04	3.31		
1003	4.0	5.08	20.3	0.05	2.82		
1016	5.0	5.09	20.3	0.05	2.31		
1030	6.0	5.10	20.3	0.05	1.93		
1043	7.0	5.10	20.3	0.05	1.79		
1050	7.5	5.10	20.3	0.05	1.97		
1056	8.0	5.11	20.3	0.05	2.02		
1103	8.5	5.11	20.3	0.05	2.05		
1110	9.0	5.11	20.3	0.05	2.01		
1115	Collect		Sample				

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION			
WEATHER:	Cool - Cloudy - Humid		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH		
SAMPLER:	Ever Guillen	OBSERVER:	

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **MW-14 Purge** DEPTH TO PRODUCT:_____ DATE: 1-9-13

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1155

SAMPLE METHOD: Pump (BLADDER) GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 66.21 DEPTH TO PUMP (btoc) 75.0'

TOTAL DEPTH: 88.30
88.3-66.21 = 22.09 X 0.17 = 3.76 X 3 = 11.27

Arrived at:_____ PURGE VOLUME: 11.5 WELL DIAMETER (inches): 2-IN

Initial PID = _____

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 922	0.25	7.31	19.1	0.41	99.0	300 ( )	66.28
948	2.0	6.90	18.4	0.40	65.2		
1002	3.0	6.92	18.4	0.41	45.4		
1015	4.0	6.91	18.4	0.40	39.9		
1028	5.0	6.91	18.4	0.40	37.6		
1041	6.0	6.91	18.4	0.41	33.1		
1054	7.0	6.90	18.4	0.40	30.3		
1107	8.0	6.90	18.4	0.40	27.1		
1121	9.0	6.90	18.5	0.39	19.8		
1134	10.0	6.89	18.1	0.40	14.7		
1140	10.5	6.89	18.2	0.41	9.20		
1147	11.0	6.88	18.2	0.41	8.64		
1154	11.5	6.88	18.2	0.41	6.72		
1155	collect Sample						

COMMENTS: Note - Water HAS GRAYISH COLOR -

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane
40 mL	~~1~~ 3	HCL to pH<2	SIM	14 Dioxane

GENERAL INFORMATION	
WEATHER:	COLD - CLOUDY - HUMID
SHIPPED VIA:	FedEX
SHIPPED TO:	Test America-North Canton, OH
SAMPLER: EVER GUILLEN	OBSERVER:

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **MW-19 Purge** DEPTH TO PRODUCT:_____ DATE: 1-9-13

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1445

SAMPLE METHOD: Pump GRAB (x) COMPOSITE ( )

DUP./REP. OF: DUP-2 DEPTH TO WATER: 32.70 DEPTH TO PUMP (btoc) 40.0'

TOTAL DEPTH: 49.20

49.20-32.70=16.50x0.17=2.81x3=8.42

Arrived at: 1245 PURGE VOLUME: 8.5 WELL DIAMETER (inches): 2-IN

Initial PID = _____

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1256	0.5	5.52	19.9	0.06	17.9	300 ( )	33.18
1316	2.0	5.93	19.6	0.09	14.4		
1329	3.0	5.98	19.6	0.09	7.97		
1342	4.0	5.95	19.5	0.09	6.85		
1356	5.0	6.11	19.5	0.11	4.64		
1409	6.0	6.29	19.5	0.12	3.76		
1423	7.0	6.41	19.5	0.14	2.58		
1429	7.5	6.42	19.5	0.14	2.38		
1436	8.0	6.41	19.4	0.13	2.27		
1443	8.5	6.41	19.4	0.14			
1445	Collect	Sample					

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane
40 mL	3	HCL to pH<2	SIM	14 Dioxane
40 mL	3	"	8260B	(DUP-2) Site-Specific Volatiles + 1,4 Dioxane

GENERAL INFORMATION	
WEATHER:	Cold - Cloudy - Humid
SHIPPED VIA:	FedEX
SHIPPED TO:	Test America-North Canton, OH
SAMPLER: Ever Guillen	OBSERVER:

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **MW-20 Purge** DEPTH TO PRODUCT:_____ DATE: 1-10-13

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1312

SAMPLE METHOD: Pump GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 81.90 DEPTH TO PUMP (btoc) 94.0'

TOTAL DEPTH: 106.40

Arrived at: 1010 PURGE VOLUME: 11.9 WELL DIAMETER (inches): 2-IN

Initial PID = _____

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1030		7.22	21.1	0.54	1.67	300 ( )	82.25
1040	0.75	7.18	21.3	0.54	1.54	300	82.25
1050	1.50	7.05	21.5	0.53	1.16	300	82.25
1110	3.00	7.02	21.4	0.53	1.10	300	82.25
1130	4.50	7.01	21.6	0.53	1.19	300	82.25
1150	6.00	7.02	21.6	0.53	1.13	300	82.25
1210	7.5	7.01	21.6	0.53	0.82	300	82.25
1230	9.00	7.00	21.6	0.53	0.80	300	82.25
1250	10.5	6.99	21.6	0.53	0.68	300	82.25
1310	12.00	6.99	21.6	0.53	0.60	300	82.25
1312	Sample time MW-20						

COMMENTS: Set pump intake at 94' below top of casing

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane
40 mL	3	HCL to pH<2	SIM	1,4 Dioxane

GENERAL INFORMATION	
WEATHER:	Cloudy Warm
SHIPPED VIA:	FedEX
SHIPPED TO:	Test America-North Canton, OH
SAMPLER: Mark Andrews	OBSERVER:

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

FIELD SAMPLING REPORT

PROJECT NO: 6122 09 0322

MACTEC ENGINEERING AND CONSULTING, INC.
3200 TOWN POINT DRIVE, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-22 DEPTH TO PRODUCT: _____ DATE: 1-10-13

SAMPLE METHOD: Low flow / Low Stress: Pump TIME: 1633

DUP./REP. OF: _____ DEPTH TO WATER: 91.80 GRAB ( ) COMPOSITE ( )

Arrived at: 1340 TOTAL DEPTH: 114.20 Depth to Pump: 100

PURGE VOLUME: 10.95

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

TIME	VOL. PURGED (gal)	pH	TEMP (°C)	SPEC. COND. (ms/cm)	ORP (mV)	TURB. (NTU)	DO (mg/L)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1400		7.51	20.4	0.54	NA	7.07	NA	300 ( )	91.82
1410	0.75	7.23	19.7	0.57		3.10		300	91.81
1430	2.25	7.07	19.5	0.57		2.52		300	91.81
1450	3.75	7.05	19.5	0.57		1.43		300	91.81
1510	5.25	7.06	19.6	0.56		1.54		300	91.81
1530	6.75	7.07	19.6	0.56		1.49		300	91.81
1550	8.25	7.08	19.0	0.56		3.18		300	91.81
1610	9.75	7.09	19.0	0.55		2.06			
1630	11.25	7.09	18.9	0.55					
1633	Sample time		MW-22						

COMMENTS: Set intake of Pump at 100' below top of casing

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40ml	3	HCl	8260B	Site-specific Volatiles + 1,4 dioxane

GENERAL INFORMATION	
WEATHER:	Clear warm
SHIPPED VIA:	
SHIPPED TO:	
SAMPLER: Mark Andrews	OBSERVER:

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **MW-25 Purge** DEPTH TO PRODUCT:_____ DATE: 1-9-13

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1703

SAMPLE METHOD: Pump GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 76.72 DEPTH TO PUMP (btoc)

TOTAL DEPTH: 106.82 96'

Arrived at: 1301 PURGE VOLUME: 14.71 WELL DIAMETER (inches):

Initial PID = _____ 2-IN

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1406		7.10	21.9	0.52	37.1	300 ( )	76.81
1416	0.75	7.14	21.1	0.52	32.7	300	76.98
1436	2.25	7.11	21.0	0.52	29.4	300	76.98
1456	3.75	7.15	20.8	0.51	14.2	300	76.99
1516	5.25	7.17	20.8	0.52	4.41	300	76.99
1536	6.75	7.18	20.7	0.51	2.86	300	76.99
1556	8.25	7.19	20.7	0.51	1.57	300	76.99
1616	9.75	7.18	20.7	0.51	1.42	300	76.99
1636	11.25	7.16	20.7	0.51	1.32	300	76.99
1656	12.75	7.19	20.7	0.51	1.30	300	76.99
1700	15.00	7.18	20.7	0.51	1.25	300	76.99
1703	Sample	time	MW-25				

COMMENTS: set pump at 96' below top of casing

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane
40 mL	1	HCL to pH<2	SIM	14 Dioxane

GENERAL INFORMATION			
WEATHER:	cloudy warm		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH		
SAMPLER: Mark Andrews		OBSERVER:	

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **MW-27** DEPTH TO PRODUCT:_____ DATE: 1-9-13

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1216

SAMPLE METHOD: Pump GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 4.77 DEPTH TO PUMP (btoc) 7 ft

TOTAL DEPTH: 9.75

Arrived at: 1149 PURGE VOLUME: 0.60 WELL DIAMETER (inches): 2-IN

Initial PID = _____

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1154		6.13	13.5	0.10	2.71	200 ( )	
1159	0.25	5.89	13.0	0.09	5.60	200	
1204	0.50	5.93	12.4	0.09	3.13	200	
1209	0.75	5.92	12.5	0.09	2.62	200	
1214	1.00	5.91	12.5	0.09	2.40	200	
1216	Sample time		MW-27				

COMMENTS: tubing set ~7.00' below top of casing (2' off bottom of well)
Casing too small to take water levels while purging.

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane
40 mL	1	HCL to pH<2	SIM	14 Dioxane

GENERAL INFORMATION			
WEATHER:	Cloudy warm		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	Mark Andrews	OBSERVER:	

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

MACTEC ENGINEERING AND CONSULTING OF GEORGIA, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **MW-28** DEPTH TO PRODUCT:_____ DATE: 1-9-13

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1125

SAMPLE METHOD: Pump GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 4.91 DEPTH TO PUMP (btoc)

TOTAL DEPTH: 9.75 7 ft

Arrived at: 1038 PURGE VOLUME: 0.58 WELL DIAMETER (inches):

Initial PID = _____ 2-IN

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1058		4.46	14.6	0.31	32.2	200 ( )	
~~1105~~ 1103	0.25	4.94	15.2	0.29	21.6	200	
1108	0.50	5.09	15.4	0.26	10.66	200	
1113	0.75	5.14	15.7	0.25	6.68	200	
1118	1.00	5.43	15.8	0.25	4.97	200	
1123	1.25	5.43	15.8	0.24	2.43	200	
1125	Sample time		MW-28				

COMMENTS: tubing placed 2' off bottom of well at ~7.00' below top of casing. Casing too small to get water level measurements while purging.

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane
40 mL	1	HCL to pH<2	SIM	14 Dioxane

GENERAL INFORMATION			
WEATHER:	cloudy warm		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	Mark Andrews	OBSERVER:	

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

0.08 x 3

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: Seep MB#2 DEPTH TO PRODUCT:_____ DATE: 1-8-13

PURGE METHOD: NA TIME: 1318

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = _____ NA

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1315		5.80	10.0	0.19	23.1	( )	
COMMENTS:							

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION	
WEATHER:	Cloudy cold
SHIPPED VIA:	FedEX
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA
SAMPLER: Evan Guillen	OBSERVER: Mark Andrews

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: Seep B

DEPTH TO PRODUCT:_____

DATE: 1-8-13

PURGE METHOD: NA

TIME: ~~1430~~ 1627

SAMPLE METHOD: Fill bottle from surface water

GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____

DEPTH TO WATER:_____

DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____

Arrived at:_____

PURGE VOLUME:_____

WELL DIAMETER (inches): NA

Initial PID = _____

Bailing PID = _____

[HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1427		6.43	10.0	0.10	89.3	( )	
1625		5.26	10.7	0.11	86.9		

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION	
WEATHER:	Cloudy cold
SHIPPED VIA:	FedEX
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA
SAMPLER: Evan Guillon	OBSERVER: Mark Andrews

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: Seep G DEPTH TO PRODUCT:_____ DATE: 1-8-13

PURGE METHOD: NA TIME: 1345

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = _____ NA

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1341		5.78	10.7	0.11	30.8	( )	
COMMENTS:							

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION			
WEATHER:	cloudy cold		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	Ever Gamma	OBSERVER:	Mark Andrews

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Seep** H DEPTH TO PRODUCT:_____ DATE: 1-8-13

PURGE METHOD: NA TIME: 1330

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = _____ NA

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1328		5.55	12.6	0.10	2.44	( )	

COMMENTS: DUP-1 taken at this location (time 1200)

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION			
WEATHER:	Cloudy cold		
SHIPPED VIA:	FedEX		
SHIPPED TO:	~~Test~~ America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	Evar Guitlen	OBSERVER:	Mark Andrews

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Seep** L DEPTH TO PRODUCT:_____ DATE: 1-8-13

PURGE METHOD: NA TIME: 1418

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = _____ NA

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1413		6.47	10.00	0.19	19.8	( )	

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION			
WEATHER:	Cloudy Cold		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	Evan Guillen	OBSERVER:	Mark Andrews

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Seep** I DEPTH TO PRODUCT:_____ DATE: 1-8-13

PURGE METHOD: NA TIME: 1408

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at: / PURGE VOLUME:_____ WELL DIAMETER (inches): NA

Initial PID = _____

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1404		6.01	4.50	0.11	21.5	( )	

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION			
WEATHER:	cloudy cold		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	Evan Guitler	OBSERVER:	Mark Andrews

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: Seep #2 West DEPTH TO PRODUCT:_____

DATE: 1-8-13

PURGE METHOD: NA

TIME: 1355

SAMPLE METHOD: Fill bottle from surface water

GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____

DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____

Arrived at:_____ PURGE VOLUME:_____

WELL DIAMETER (inches): NA

Initial PID = _____

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	~~pH~~ pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1351		6.04	9.8	0.06	14.8	( )	

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION			
WEATHER:	Cloudy cold		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	Evor Guillen	OBSERVER:	Mark Andrews

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** MB#3 DEPTH TO PRODUCT:_____ DATE: 1-8-13

PURGE METHOD: NA TIME: 1525

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):
Initial PID = _____ NA
Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1518		7.14	10.0	0.11	10.01	( )	
COMMENTS:							

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION			
WEATHER:	Cloudy Cold		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	Eury Guillen	OBSERVER:	Mark Andrews

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** # 5 DEPTH TO PRODUCT:_____ DATE: 1-8-13

PURGE METHOD: NA TIME: 1559

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):
Initial PID = _____ NA
Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1556		7.57	10.1	0.10	12.03	( )	
COMMENTS:							

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION			
WEATHER:	Cloudy Cool		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	Kyer Guillen	OBSERVER:	Mark Andrews

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** #15 DEPTH TO PRODUCT:_____ DATE: 1-8-13

PURGE METHOD: NA TIME: 1538

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = _____ NA

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1535		7.38	10	0.10	12.45	( )	
COMMENTS:							

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION			
WEATHER:	Cloudy cool		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	Elver Guillen	OBSERVER:	Mark Andrews

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

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC E&I, INC.
3200 TOWN POINT DRIVE SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** #16 DEPTH TO PRODUCT:_____ DATE: 1-8-13

PURGE METHOD: NA TIME: 1612

SAMPLE METHOD: Fill bottle from surface water GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = _____ NA

Bailing PID = _____ [HAND AUGER WELL]

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1607		6.33	11.6	0.10	27.3	( )	

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
40 mL	3	HCL to pH<2	8260B	site-specific Volatiles +1,4 dioxane

GENERAL INFORMATION			
WEATHER:	Cloudy cold		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Test America-North Canton, OH or AES - Atlanta, GA		
SAMPLER:	Evpl Guillen	OBSERVER:	Mark Andrews

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

APPENDIX B

RESPONSE TO EPD'S JULY 16, 2012 COMMENTS #2 AND #3 ON GROUNDWATER FLOW IN THE UPPERMOST WATER-BEARING ZONE

RESPONSE TO GEORGIA ENVIRONMENTAL PROTECTION DIVISION
JULY 16, 2012 COMMENTS ON THE
SEPTEMBER 9, 2011 VOLUNTARY REMEDIATION PLAN STATUS REPORT NO. 1 AND
MARCH 9, 2011 VOLUNTARY REMEDIATION PLAN STATUS REPORT NO.2
THERMO KING CORPORATION SITE, HSI SITE NO. 10702
LOUISVILLE, JEFFERSON COUNTY, GEORGIA
TAX PARCEL 0090-024
September 10, 2012

Comment #1: June 16, 2011 Transmittal of the Affidavit to the Property Deeds: *EPD received the June 16, 2011 Transmittal of the Affidavit to the Property Deeds notice. Condition 5 of EPD's March 10, 2011 letter has been met.*

Response to Comment #1
Noted.

September 9, 2011 Voluntary Remediation Plan Status Report No. 1
Response to EPD's March 10, 2011 Comments
Comment #2: Response to Comment #5: *EPD disagrees with the statement that there is no continuous groundwater flow path in the Uppermost Zone to Manson Branch. Monitoring wells MW-27 and MW-28 were installed in 2010 to address a groundwater data gap between the seeps and Manson Branch. Stagnant water levels have been measured consistently in 2010, 2011, and 2012. Additionally, laboratory results of groundwater samples collected from MW-27 and MW-28 show low concentrations of TCE and breakdown products. Although the Uppermost Zone daylights in seeps along the hill slope east of Manson Branch, static water level measurements and detections of contaminants in MW-27 and MW-28 indicate there is a connection between the Uppermost Zone and Manson Branch. Appendix D of the December 2010 Addendum to VRP states that near surface groundwater in the colluvial/alluvial deposits, where MW-27 and MW-28 are installed, appears to discharge directly into Manson Branch. Therefore, EPD requests a revised Conceptual Site Model with these data be submitted. In reference to Figure 4.1, Hydrogeologic Profile A-A', from the December 2010 Addendum to VRP, stagnant water level is shown in MW-27; however, there is no interpretation as to the connection of the water table at MW-27, the seeps, and the Uppermost Zone. The position of the water table often follows the general shape of the topography. Therefore, EPD requests a revised cross-section with water table elevation interpretation. EPD recommends stretching the horizontal scale to provide more detail of the topography from MW-19 to Manson Branch.*

Response to Comment #2:
Revised cross-sections along the general alignment of Hydrogeologic Profile A-A' are attached (Figures A-1 and A-2). The profiles have an expanded horizontal scale to better depict stratigraphic and hydrogeologic units and their relationship to the present topography of Manson Branch valley. The flow path of groundwater from the Uppermost Water-Bearing Zone,

discharging to seeps along the valley side and then through the valley-floor colluvial/alluvial soils (MW-27 and MW-28) to Manson Branch is also illustrated. The valley-floor colluvial/alluvial deposits are also present on the east side of Manson Branch where waters from this unit also discharge into Manson Branch.

This profile and description of groundwater flow from the UWBZ to Manson Branch (the Conceptual Site Model) is consistent with the more extensive discussion presented in Appendix D of the 2010 Addendum to Voluntary Remediation Program Application. The expanded scale topographic/stratigraphic/hydrogeologic profiles (Figures A-1 and A-2) better illustrates the Model and the pathway of flow of groundwater from the Uppermost Water-Bearing Zone to Manson Branch.

Comment #3: Response to Comment #6: *Because of the difficult geology of the Uppermost Zone, AMEC states it is not feasible to develop a fate and transport model similar to that used to model the Intermediate Zone to directly predict potential contaminant concentrations at wells MW-27/MW-28 or impacts to Manson Branch. Response to Comment #6 states monitoring of contaminant concentrations will continue in wells MW-5, MW-19, MW-27, MW-28, seeps Manson Branch #2 (and Seep H), as well as Manson Branch to confirm that constituents in groundwater remain at levels that will not result in impacts to Manson Branch that exceed ISWQS. Near surface groundwater in the colluvial/alluvial deposits discharges directly into Manson Branch. TCE and breakdown products have been detected in monitoring wells MW-27 and MW-28, adjacent to Manson Branch. Therefore, in order to refine the conceptual site model, to protect Manson Branch from the discharge of contaminated groundwater, and to determine if there is a complete pathway to a receptor, it must be determined whether Manson Branch is a gaining or losing stream. If Manson Branch is a gaining stream, then the groundwater to surface water discharge mechanism(s) must be determined.*

Identifying physical features in Manson Branch indicative of groundwater discharge may provide useful information. EPD refers you to Section 1.2 Groundwater and Contaminant Discharges in Transition Zones of the USEPA ECO Update/Ground Water Forum Issue Paper Evaluating Ground-Water/Surface-Water Transition Zones in Ecological Risk Assessments (EPA-540-R-06-072), which can be downloaded from the following website:
http://www.epa.gov/oswer/riskassessment/ecoup/pdf/eco_update_08.pdf.

Temperature is a good measure to determine areas of potential groundwater discharge. Areas of water gain, where groundwater discharges to the creek, should show a distinct change in temperature of both surface water and shallow sediment. EPD recommends monitoring temperature at intervals along the creek and collecting temperature data at: 1) the center of the flow channel at the bottom of the flow stream; 2) 3-inches below the top of the sediment in the center of the flow channel; 3) 3-inches below the top of the sediment next to the west bank; and 4) any other physical features identified as possible groundwater discharge areas. Where an area of localized temperature change is identified, mini-piezometers should then be installed to identify head differential between the water level in the mini-piezometer and water elevation in the creek. If Manson Branch is a gaining stream and groundwater discharge areas are identified, pore water/interstitial sampling should be conducted in the areas where the stream is gaining and those samples should be analyzed for total VOCs (USEPA SESD Pore Water

Sampling Operating Procedure, SESDPROC-513-RO, February 2007, http://www.epa.gov/region04/sesd/fbqstp/Porewater-Sampling.pdf).

Response to Comment #3:

The total drainage area of Manson Branch where it passes the Thermo King site is 4.1 square miles, or 2624 acres. The annual average stream flow yield for streams in this area of the State is 0.9 cfs per square mile based on the average annual runoff map in USGS Open File Report 82-557 - and from which the mean annual flow can be determined for any stream within the State (http://pubs.usgs.gov/of/1982/ofr82-557/). Thus, the long-term annual average stream flow for Manson Branch at the Thermo King site is 3.7 cubic feet per second (cfs) (i.e., 0.9 cfs per square mile x 4.1 square miles = 3.7 cfs) or 2.4 mgd.

The instream water quality criterion for trichloroethene (TCE) is 30 µ/L (0.03 mg/L) and it is applicable under annual average or higher stream flow conditions (391-3-6-.03(5)(e)(iv)). At an annual average flow of 2.4 mgd in Manson Branch, the 0.03 mg/L water quality criterion for TCE would be equivalent to an allowable TCE mass load of 0.6 lbs per day discharging to Manson Branch. (i.e., 8.34 x flow (mgd) x concentration (mg/L)).

As shown on the attached "Calculation of Pounds of TCE in Uppermost Water-Bearing Zone Potentially Discharging to Seeps along Hillside above Manson Branch", the calculated TCE impact to Manson Branch is 0.023 pounds per day assuming that the maximum concentration of TCE in groundwater discharging to the seeps is the highest concentration recently detected in MW-19 (5900 µg/L), that this concentration is present in groundwater along a 600-foot wide zone above the seeps, and that the discharge was directly into Manson Branch without the dilution, volatilization, adsorption, and other attenuation factors that actually occurs before water from UWBZ reaches Manson Branch. As a point of reference, an in-stream concentration of TCE of 1 µg/L in the average annual stream flow of 2.4 mgd would be equivalent to a calculated mass load of 0.02 pounds per day in Manson Branch.

Also noted is that VOCs have never been detected in repeated water quality samples taken from multiple locations in Manson Branch over the past 10 years.

With respect to the instream water quality criteria for the VOCs, the underlying scientific basis for the criteria is the assumed presence of human receptors routinely consuming three six-ounce fish meals per month consisting solely of fish caught from the impacted stream segment. While we understand and appreciate the underlying science of the instream water quality criteria, we particularly note that there are no such plausible human receptors for this particular location along Manson Branch where it flows through the Thermo King property. Access to the stream at this location is quite difficult and given the small size of the stream it is hard to imagine that it could support a sustainable fish catch rate sufficient to support the assumed fish consumption rate. In any event, we note that in the absence of a plausible receptor, there can be no complete exposure pathway that requires any further evaluation for purposes of the VRP (12-8-108(2)).

Given these findings and observations and the long-term monitoring results that have been reported over the past 10 years, it is clear that whatever the source and quantity of site VOCs reaching Manson Branch through groundwater seepage or any other drainage, it is not a

sufficient amount to cause or contribute to an exceedance of instream water quality criteria in Manson Branch and the contribution has been so small that no detectable instream concentrations have been experienced in 10 years of instream monitoring. We submit that enough investigation has been done to demonstrate and prove with 10 years of instream monitoring that the water quality of Manson Branch is protected. Therefore, no further exploratory stream investigations such as those suggested in item 3 of EPD's July 16, 2012 comment letter are planned.

Comment #4: Response to Comment #9 is acceptable.

Response to Comment #4
Noted.

Comment #5: Response to Comment #10: *The Type 2 and Type 4 groundwater RRS for cis-1,2-dichloroethylene shown in Table B-2 are correct. EPD cannot verify the Type 2 and Type 4 soil leaching RRS of 0.44 mg/kg for cis-1,2-DCE shown in Table B-1. Tables K-6a and K-6b have not been updated with the revised cis-1,2-DCE Type 2 and Type 4 groundwater RRS. Additionally, EPD cannot verify the Type 2 leaching number of 0.94 mg/kg for chloroform in Table B-1. There may have been a transcription error. The Type 2 number of 0.94 mg/kg in Table K-6a is for cis-1,2-DCE. Table K-6a shows the Type 2 and Type 4 leaching number of 0.44 mg/kg for chloroform, which is correct for chloroform. Please revise accordingly.*

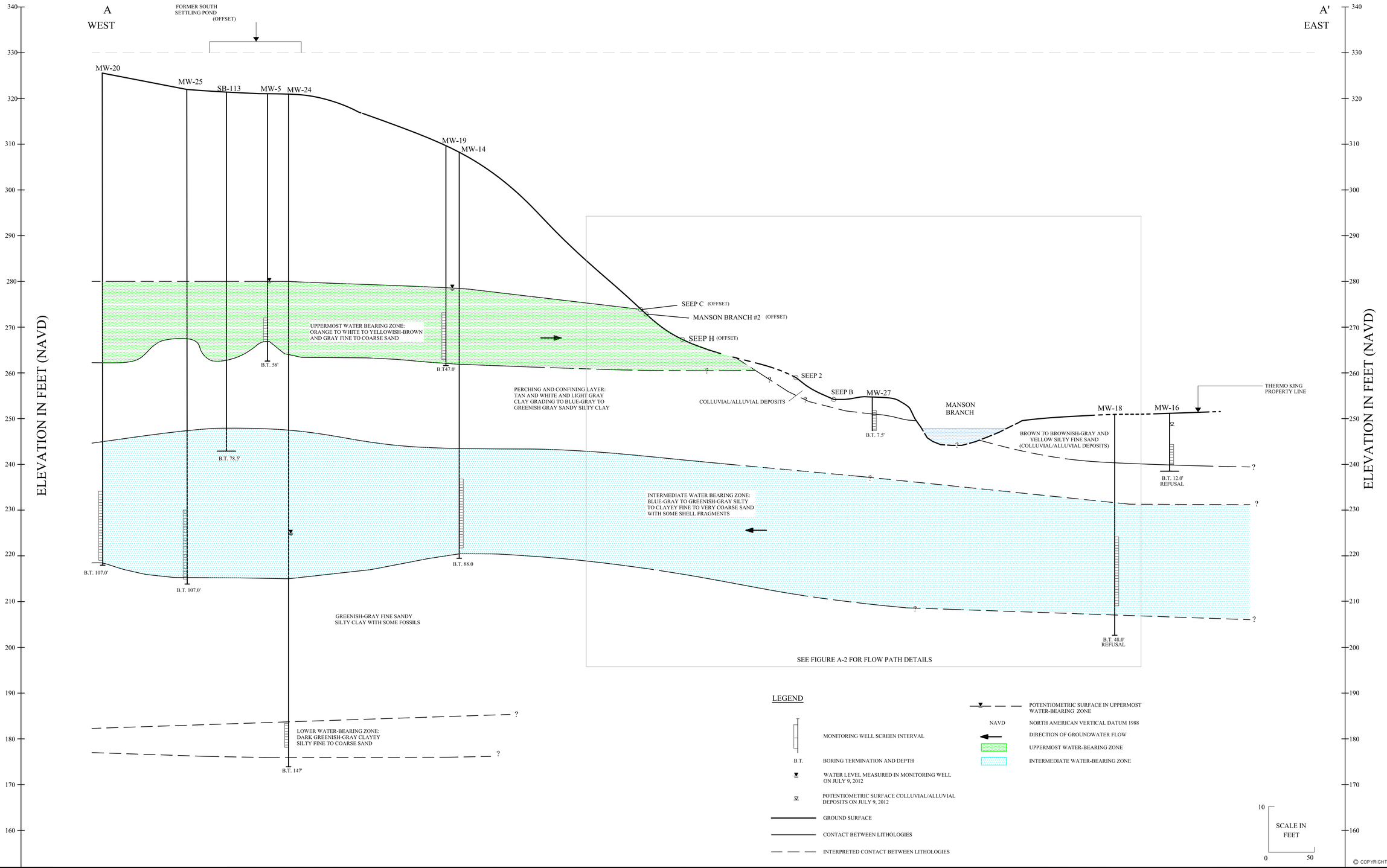
Response to Comment #5:
Leaching values for chloroform and cis-1,2-dichloroethene (cis-1,2-DCE) have been revised on Table B-1. Tables K-6a and K-6b were updated with the appropriate groundwater Type 2 and Type 4 RRS for cis-1,2-DCE. The tables are attached.

Comment #6: Response to Comment #11 is acceptable.

Response to Comment #6
Noted.

Comment #7: Response to Comment #16: *The presence of a public right-of-way does not cause a property to be geographically discontiguous, in accordance with the Georgia Rules for Hazardous Waste Management, §391-3-11-.02 "Definitions," which adopts and incorporates by reference, 40 CFR §260.10. Therefore, EPD requires all properties across Highway 24 be included in the environmental covenant as adjacent property owners.*

Response to Comment #7:
Thermo King does not agree with EPD's assertion and over-reaching interpretation in this regard and does not consider the properties across Highway 24 to be "adjacent properties" for purposes of the VRP environmental covenant. The 40 CFR 260.10 definition that EPD references as the basis for its assertion is apparently taken out of context from the EPA definition of what



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REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED D. HUNT
DRAWN T. GLADSTONE
CHECKED R. QUINN
IN CHARGE D. ALCOTT
DATE 9/4/2012

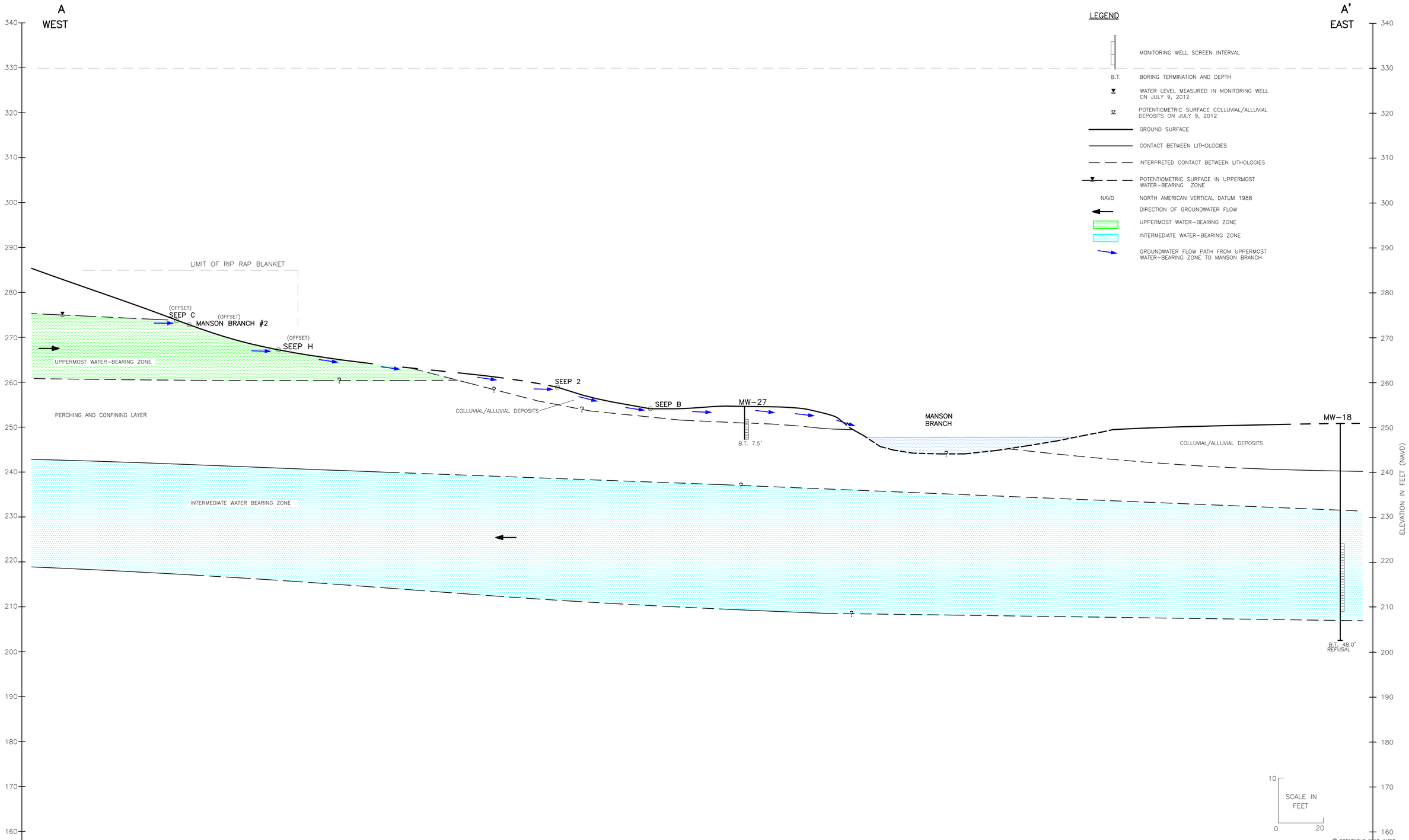
THERMO KING CORPORATION
LOUSVILLE, GEORGIA

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

HYDROGEOLOGIC PROFILE
A–A'

FIGURE A-1

SCALE AS SHOWN
CONTRACT 6122–09–0322
DWG. NO. REV PAGE NO



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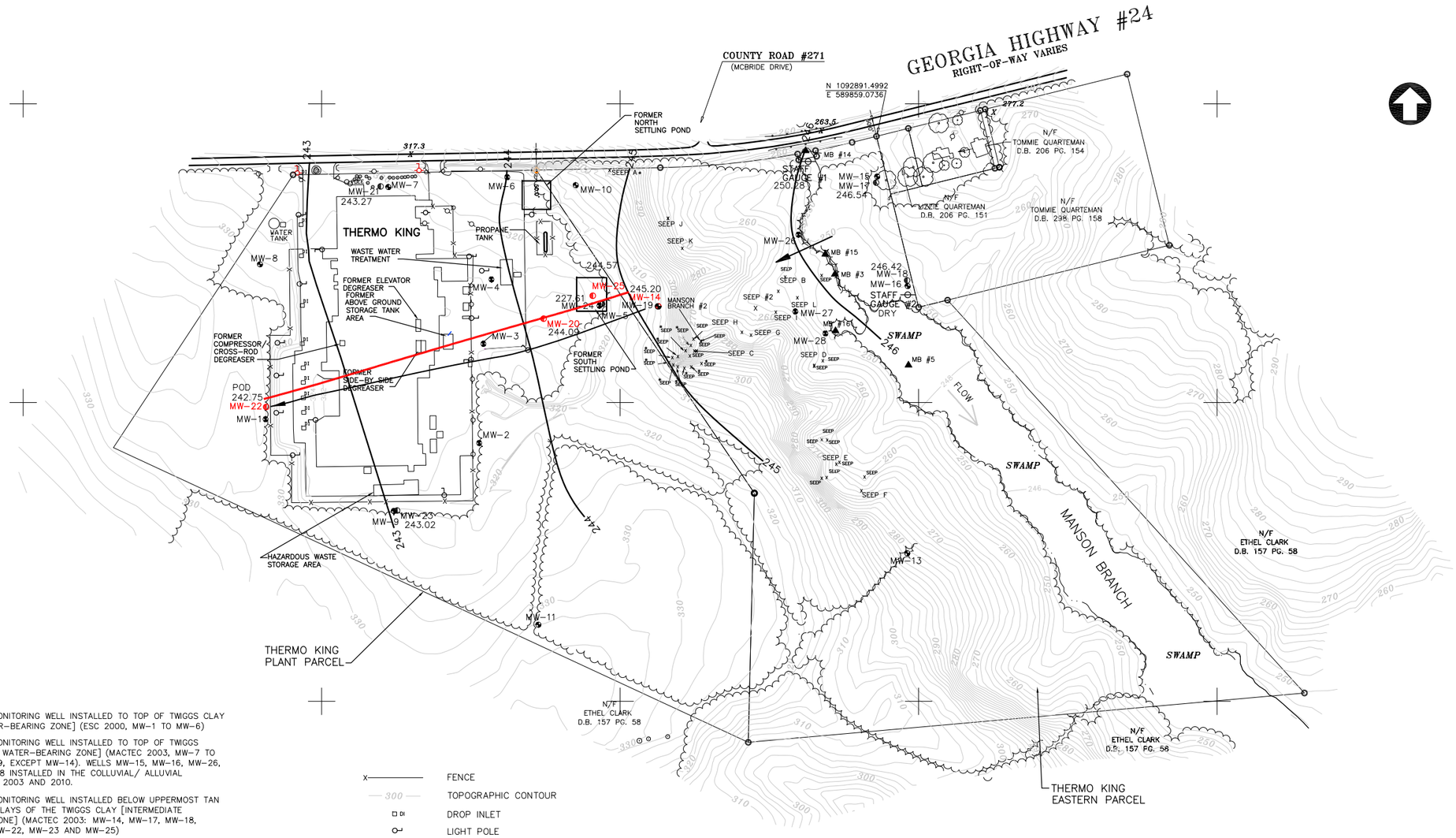
LOUSVILLE, GEORGIA

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

EXPANDED HYDROGEOLOGIC PROFILE
A–A'

FIGURE A–2

SCALE AS SHOWN
CONTRACT 6122-09-0322
DWG. NO. REV PAGE NO



LEGEND

MW-1	GROUND-WATER MONITORING WELL INSTALLED TO TOP OF TWIGGS CLAY [UPPERMOST WATER-BEARING ZONE] (ESC 2000, MW-1 TO MW-6)
MW-7	GROUND-WATER MONITORING WELL INSTALLED TO TOP OF TWIGGS CLAY [UPPERMOST WATER-BEARING ZONE] (MACTEC 2003, MW-7 TO MW-13 AND MW-19, EXCEPT MW-14). WELLS MW-15, MW-16, MW-26, MW-27 AND MW-28 INSTALLED IN THE COLLUVIAL/ ALLUVIAL MATERIAL, MACTEC 2003 AND 2010.
MW-14	GROUND-WATER MONITORING WELL INSTALLED BELOW UPPERMOST TAN AND BLUE-GRAY CLAYS OF THE TWIGGS CLAY [INTERMEDIATE WATER-BEARING ZONE] (MACTEC 2003: MW-14, MW-17, MW-18, MW-20, MW-21, MW-22, MW-23 AND MW-25)
MW-24	GROUND-WATER MONITORING WELL INSTALLED IN LOWER WATER BEARING ZONE.
SEEP A 295.0	WATER SEEP WITH ELEVATION SAMPLED FOR SURFACE WATER FOR LABORATORY ANALYSIS (MACTEC 2003: Seeps A through J, Manson Branch #2, and Seep #2)
SEEP 274.6	WATER SEEP WITH ELEVATION
MB #14	MANSON BRANCH SURFACE WATER SAMPLING LOCATION (MACTEC 2003: MB#14, MB#15, MB#16)
	STAFF GAUGE FOR MEASURING SURFACE WATER ELEVATION
	BUSH
	BUSHLINE
	TREE
	TREELINE
	HEDGE
	STREAM

	FENCE
300	TOPOGRAPHIC CONTOUR
DI	DROP INLET
	LIGHT POLE
	PROPERTY BOUNDARY
245.96	GROUND-WATER ELEVATION IN FEET, NAVD 1988 (JULY 9, 2012)
284	POTENTIOMETRIC SURFACE CONTOUR IN FEET, NAVD 1988 IN INTERMEDIATE WATER-BEARING ZONE
	INTERPRETED DIRECTION OF GROUND-WATER FLOW IN INTERMEDIATE WATER-BEARING ZONE
x	SEEPS NOT USED IN CONTORING
POD	POINT OF DEMONSTRATION WELL
	SOURCE PLANE OF THE INTERMEDIATE WATER-BEARING ZONE

NOTE: MW-24 NOT USED IN CONTOURING.

SOURCE: TOPOGRAPHIC AND PROPERTY BOUNDARY SURVEYS BY SURVEYING SOLUTIONS, INC., JULY 2002 AND HOFFMAN & COMPANY INC., USING FEBRUARY 2002 AERIAL PHOTOGRAPH. AND GROUND SURVEYING. 2000 CSR SAMPLING LOCATIONS SURVEYED BY MACTEC ENGINEERING AND CONSULTING, INC. SEPTEMBER 2003. DECEMBER 2004 LOCATIONS OF FORMER NORTH AND SOUTH SETTLING PONDS APPROXIMATED FROM HISTORICAL AERIAL PHOTOGRAPHS.

SCALE IN FEET
0 200 400

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REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED J. MOORE
DRAWN T. GLADSTONE
CHECKED R. QUINN
IN CHARGE D. ALCOTT
DATE 9/4/2012

THERMO KING CORPORATION
LOUISVILLE, GEORGIA

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

POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE WATER-BEARING ZONE JULY 2012 SHOWING MODEL SOURCE PLANE

FIGURE: A-3

SCALE: AS SHOWN
CONTRACT: 6122-09-0322
DWG. NO. | REV | PAGE NO

J:\Thermo King\FEBRUARY 2012\MODEL SOURCE PLAN.dwg - Layout1 09/07/2012 10:04am ilgita.kravchuk

CALCULATION OF POUNDS OF TCE IN UPPERMOST WATER-BEARING ZONE POTENTIALLY DISCHARGING TO SEEPS ALONG HILLSIDE ABOVE MANSON BRANCH

(1) Groundwater Volumetric Calculation
Q=KA(dh/dl)
Q = volume of water moving through cross-sectional area in ft^3/day
K = hydraulic conductivity of the saturated material groundwater is moving through in ft/day
A = cross-sectional area (length x saturated thickness) in ft^2
dh/dl = linear gradient in ft/ft

	MW-1	MW-4	MW-10
Hydraulic conductivity of UWBZ	0.0012	0.0007	0.0005
	ft/min	ft/min	ft/min

	Geometric Mean	K in UWBZ
-6.72543	0.000749 ft/min	1.08 ft/day
-7.26443		
-7.6009		
-21.5908		
-7.19692		

A = cross-sectional area (length x saturated thickness) in ft^2

Length Estimated that TCE discharges along hillside:
Distance between 100 ug/L contour
near GW-E-9 to 100 ug/L concentration
contour to the south on TCE
Isoconcentration map 600 ft

Saturated thickness of UWBZ at MW-19 in ft from Hydrogeologic Profile A-A'
20 ft
A1= 600 ft x 20 ft = 12000 ft^2

dh/dl = linear gradient in ft/ft potentiometric map January 2012
0.0049 ft/ft

Q=KA(dh/dl)
Q1= 1.08 ft/day x 12000 ft^2 x 0.0049 ft/ft = 63.41 ft^3/day = 474.3 gals/day

Highest TCE concentration in 2012: MW-19 1/18/2012 5900 ug/L

Convertion of TCE ug/L to pounds:

Convertion of TCE ug/L to pounds: 5900 ug/L x 1 mg / 1000 ug x 1 gm / 1000 mg x 1 lb / 453.6 gm x 1 L / 0.2642 gal x 474.3 gallons estimated to be moving along UWBZ per day (1)

Pounds of TCE potentially discharging to seeps Area = 12000 ft^2	0.023	pounds per day

Notes:
ft = feet
ft^2 = square feet
ft/day = feet per day
ft/ft = feet per foot
ug/L = micrograms per liter
mg = milligrams
gm = grams
lb = pounds
gal = gallons

Prepared by: RNQ 8/31/2012
Checked by: ADA 8/31/2012

APPENDIX C

NOVEMBER 2012 AND JANUARY 2013 PHOTOGRAPHS OF THE RIP-RAP BLANKET

Photo No. 1: Expanded Rip-Rap/Diversion Structure at Top of Flume after Erosion Repairs (November 2012)

Photo No. 2: Check Dams in Drainage Pathway to Seep H (November 2012)

Photo No. 3: Stormwater Diversion and Seeding at Top of Rip-Rap Flume (November 2012)

Photo No. 4: Expanded Rip-Rap in Drainage Pathway at Top of Flume (November 2012)

Photo No. 5: Looking Down Rip-Rap Flume after Erosion Repairs (November 2012)

Photo No. 6: Stormwater Diversion at Top of Flume (January 2013)

Photo No. 7: Looking Down Rip-Rap Flume (January 2013)

Photo No. 8: Rip-Rap in Drainage Pathway at Top of Flume (January 2013)

Photo No. 9: Check Dam at Base of Rip-Rap Flume after Cleanout (January 2013)

Photo No. 10: Expanded Rip-Rap Flume (January 2013)