POST-VRP CSR MONITORING REPORT

Thermo King Corporation
Louisville, Jefferson County, Georgia
HSI Site No. 10702

Prepared for:	Thermo King Corporation 1430 Georgia Highway 24 East, Louisville, Georgia 30434
Date:	December 16, 2016
Prepared by:	Amec Foster Wheeler Environment & Infrastructure, Inc. 1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144
Project No.:	6122-09-0322

December 16, 2016

Ms. Carolyn L. Daniels, P.G.
Georgia Environmental Protection Division
Response & Remediation Program
Land Protection Branch
2 Martin Luther King Jr. Drive, SE
Suite 1054 East Floyd Tower
Atlanta, Georgia 30334-9000

Subject: **Post-Voluntary Remediation Program-Compliance Status Report (Post-VRP CSR) Monitoring Report**
Thermo King Corporation - Louisville, Jefferson County, Georgia
HSI Site No. 10702 Tax Parcel 0090-024
Amec Foster Wheeler Project 6122-09-0322

Dear Ms. Daniels:

Amec Foster Wheeler Environment & Infrastructure, Inc., on behalf of Thermo King Corporation, is hereby submitting the attached Post-VRP CSR Monitoring Report for the Thermo King Corporation in Louisville, Jefferson County, Georgia (HSI Site No. 10702, Tax Parcel 0090-024). This monitoring report is to document the annual seep and surface water monitoring and inspections of the engineering controls as described in the VRP Compliance Status Report.

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc.

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

A. David Alcott
Senior Associate Engineer

Enclosure

cc: Michael Goldstein – Ingersoll Rand Company
Frank Kozel – Thermo King Corporation
Dave Sordi – Quantum Management Group

Environment & Infrastructure
1075 BIG SHANTY ROAD NW
SUITE 100
KENNESAW, GA 30144 USA
O (770) 421 3400
F (770) 421 3486
amecfw.com

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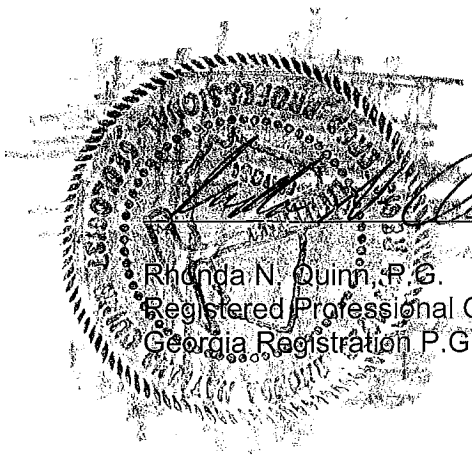
1.0 PROFESSIONAL GROUNDWATER SCIENTIST CERTIFICATION

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in ground-water hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding ground-water monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction.



12-15-16

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

Date

2.0 INTRODUCTION AND BACKGROUND

This Post-Voluntary Remediation Program-Compliance Status Report (Post-VRP CSR) Monitoring Report, is the first report in the post-VRP CSR monitoring period. Ten VRP Status Reports (documenting 5 years of monitoring from March 2011 through December 2015) have been submitted to the Georgia Environmental Protection Division (EPD) in accordance with the Voluntary Remediation Program (VRP) for the Thermo King Corporation site, Hazardous Site Inventory (HSI) No. 10702/Tax Parcel 0090-024. This Monitoring Report covers the activities conducted from March through December 2016 and documents the monitoring and inspections described in the March 10, 2016 VRP CSR. These activities included annual seep and surface water monitoring conducted in November 2016, and the annual inspections of the rip-rap blanket and building floor slab.

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. Ten Status Reports have been submitted to EPD covering the time period from March 2011 to December 2015. A VRP CSR was prepared and submitted to EPD on March 10, 2016 and EPD's approval and/or comments on the CSR are pending. The VRP CSR presented data along with a fate-and-transport groundwater model to demonstrate:

- The engineering (building floor slab and rip-rap blanket) and institutional (Environmental Covenant) controls are effective in limiting exposure to VOCs in soils, groundwater and precluding the surface expression of seep waters containing constituents at concentrations above Instream Water Quality Criteria (ISWQC).
- Constituents in the Uppermost-Water Bearing Zone have not and will not impact Manson Branch at concentrations exceeding their respective ISWQC.
- Contaminant migration will stabilize and recede before constituent concentrations exceed maximum contaminants levels (MCLs) at the property line.
- Based on the five years of monitoring and results of groundwater modeling, Thermo King requested that groundwater monitoring be discontinued and annual seep and surface water monitoring be conducted along with inspections and maintenance of the engineering controls as appropriate continuing actions to protect human health and the environment.

EPD conducted a site visit on March 29, 2016 to review the engineering controls and site conditions as part of the VRP process.

3.0 WORK PERFORMED APRIL TO DECEMBER 2016

The post-CSR activities currently identified to be performed at the Thermo King site are described in the VRP CSR, dated March 10, 2016. Activities conducted in 2016 include the preparation and submittal of the VRP CSR, post-CSR annual seep and surface water sampling and analysis, annual inspections of the engineering controls, and execution of the environmental covenant, and annual update of the financial assurance. These activities are described in the following sections.

3.1 Post VRP CSR Annual Seep and Surface Water Sampling and Analysis

Per the VRP Remediation Plan (December 2010) groundwater was monitored for five years (ten monitoring events) and the results were documented in the ten Status Reports (2011 through December 2015). The groundwater was also monitored prior to the VRP from 2000 through 2010. The VRP and prior groundwater monitoring results, along with the fate-and-transport groundwater modeling, indicated the VOC groundwater plumes will stabilize and recede before constituent concentrations exceed MCLs at the property line. In the VRP CSR, submitted in March 2016, it was proposed that monitoring of the groundwater be discontinued and seep and surface water monitoring be conducted annually to confirm that the rip-rap blanket has been effective in precluding the surface expression of seep waters containing constituents at concentrations above ISWQC and that seep waters in uncovered seeps do not exceed ISWQC along with continued evaluation of concentration trends.

3.1.1 Seep Samples

Water samples were collected on November 17, 2016 from six of the seven seeps (MB#2, Seep 2, Seep G, Seep H, Seep I and Seep L) as listed Appendix G of the VRP CSR. Seep B was dry during the sampling event and was not sampled. Seeps MB#2 and H were encased in perforated plastic culvert-style pipes inserted over the original seep locations when the rip-rap blanket was installed in 2012. Samples of the seep water were collected by directly filling pre-cleaned and preserved sample containers with water that appeared at the ground surface. These seep samples were analyzed for site-specific VOCs including 1,4-dioxane using USEPA Method 8260B. The seep sample analytical results are summarized on Table 1; the field sampling forms and laboratory reports are provided in Appendix A. The November 2016 seep samples were analyzed by Pace Analytical Laboratory in Huntersville, North Carolina.

3.1.2 Surface Water Samples

Surface water samples were collected from Manson Branch on November 17, 2016. Surface water samples were collected from four stream locations (MB#3, MB#5, MB#15, and MB#16). 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 1, and the field sampling forms and the laboratory reports are provided in Appendix A. The surface water samples were analyzed by Pace Analytical Laboratory in Huntersville, North Carolina.

3.1.3 Inspections of the Engineering Controls

Inside the main building, the area of the floor slab covering the former degreasing operations and the rip-rap blanket have been designated as engineering controls (Figure 1). The building floor slab prevents exposure to VOC-impacted soils underlying the building in the area of the former degreasers. The rip-rap blanket precludes the surface expression of seep waters with VOC concentrations above the ISWQC. Both structures were visually inspected during the November 2016 sampling event to evaluate if they were functioning as intended.

Designated Area of the Building Floor Slab

The building is currently vacant. The floor slab in the middle third of the building (Figure 1) where degreasing operations were conducted and where releases to soil exceeding Risk Reduction Standards have been detected was inspected. The inspection showed that there were no openings in the floor slab that would allow for direct contact with underlying soils. There was a half-inch separation between the wall and the floor in a building addition area on the west side of the main building, but there was no soil present in the separation and the separation did not appear to be a new occurrence. There were no visible evidence that repairs or recent wear had occurred. The floor slab in the degreaser area is functioning as a designated engineering control in preventing direct exposure to VOC-impacted soils in this area.

Rip-Rap Blanket

The rip-rap blanket was constructed to preclude the surface expression of seep waters with VOC concentrations above the ISWQC. The inspection showed that the rip-rap blanket is functioning as designed and that seeps with VOCs concentrations above ISWQC are covered by the rip-rap. The seep water was flowing beneath the rip-rap and not surfacing, there was no sediment build-up, and the sampling vaults were in good condition. Some vegetation (weedy vegetation and leaf litter) and dead-fall trees limbs were present around the rip-rap material. The vegetation is not currently interfering with the function of the blanket and will be killed-off with winter weather. The blanket was cleared of vegetation in March 2016. Vegetation growth will need to be monitored to prevent vegetation from growing up through the blanket and clogging the pore spaces in the rip-rap.

As a result of surface water run-off along the side of the road that then crosses the road in a low-lying area, there is minor erosion at the end of the access road before it reaches the MB#2 rip-rap blanket area. The erosion does not interfere with the function of the blanket, but will need to be repaired in the future to limit further erosion of the access road. Appendix B contains the inspection checklists and photographs for the inspections.

3.1.4 Execution of the Environmental Covenant

An Environmental Covenant was executed on the 110.5 acres of the Thermo King property as an institution control. The Covenant prohibits residential use of the property and restricts the use of Site groundwater for all but remediation-related purposes. EPD signed the covenant on May 26, 2016 and it was recorded with the property deeds on June 17, 2016. A copy of the covenant was mailed to all of the listed parties on the covenant. A total of 11 permanent signs were installed along the property boundaries and around the perimeter of the building stating that the property was subject to an environmental covenant and that Ingersoll Rand and EPD are to be contacted

prior to conducting land or building floor slab disturbance activities or coming into contact with groundwater or seep water on the property. The signs read as follows:

> This Property is listed on the Georgia Environmental Protection Division Hazardous Site Inventory (EPD HSI No. 10702). The Property is subject to an Environmental Covenant. EPD has determined that the implemented institutional and engineering controls are protective of human health and the environment. Contact Ingersoll Rand Company (704-990-3250) or Georgia EPD (404-657-8600) prior to conducting land or building floor slab disturbance activities or coming into contact with groundwater or seep water on this Property.

3.1.5 Financial Assurance

The financial assurance for 2016 was submitted to EPD on May 4, 2016. The 2016 VRP financial assurance was a letter confirming the existing cost estimate and financial assurance amount continues to be sufficient to cover the cost of post-VRP CSR activities as presented in the VRP CSR (March 2016). An Irrevocable Standby Letter of Credit that automatically renews annually was provided to the EPD in May 2011 for the VRP financial assurance.

3.2 Analytical Results

The following sections describe the results of the analysis of the November 2016 seep and surface water samples.

3.2.1 Seeps

Historic seep sampling results, including those collected in November 2016, are presented on Table 1. The reported November 2016 VOC concentrations in seep samples are similar to those recently reported. The sample from Seep H exceeded Georgia ISWQC for TCE while the sample from Seep MB#2 exceeded for vinyl chloride. Both seeps are beneath the rip-rap blanket. No VOCs were detected at concentrations exceeding Georgia ISWQC in seeps (Seeps #2, G, L, and I) located outside the riprap blanket.

Figures 2 through 7 show time trend plots of six VOCs detected in the seeps for the period from late 2011 through 2016. With some fluctuations noted, these figures illustrate the VOC concentrations in the seeps have been relatively stable or are decreasing.

3.2.2 Surface Water

Surface water samples were collected from the four designated sampling locations in Manson Branch (MB#3, MB#5, MB#15, and MB#16) and were analyzed for site-specific VOCs and 1,4-dioxane. Consistent with sampling results for the past 16 years, no constituents were detected in the Manson Branch surface water samples (Table 1).

TABLE

TABLE 1: 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
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	Test America - North Canton	Test America - 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**	
1,1,2-Trichloroethane	16	<5.0	<5.0	<5.0	<5.0	<17	<5.0	<25.0	<4.0	<6.7	<250	<620	<190	<5.0	
1,1-Dichloroethene	7100	<5.0	<5.0	<5.0	**69**	**50**	**52**	**97**	**12**	**24**	<250	**1000**	**210**	**11**	
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	
1,4-Dioxane	not established	<250	<250	NA	<250	<830	NA	<1200	<200	<330	<12000	<31000	<9600	<250	
Bromomethane	1500	<5.0	<10.0	<5.0	<5.0	<10.0	<5.0	<25.0	<4.0	<6.7	<250	<620	<190	<10.0	
Chloroethane	not established	<5.0	<10.0	<5.0	<5.0	<33	<5.0	<25.0	<4.0	<6.7	<250	<620	<190	<10.0	
Chloroform	470	<5.0	<5.0	<5.0	<5.0	<17	<5.0	<25.0	<4.0	<6.7	<250	<620	<190	<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
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
p-Isopropyltoluene	not established	<5.0	<5.0	<5.0	<5.0	<17	<5.0	<25.0	NA	NA	NA	NA	NA	<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	
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	
Trichloroethene	30	<5.0	<5.0	<5.0	**490**	**460**	**440**	**720**	**120**	**210**	**1300**	**4400**	**930**	**310**	
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	
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		**Manson Branch #2 (MB#2)**														
Sample Location		**Seep in a Draw Down Slope of Thermo King plant building**														
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**6/2/2010**	**6/7/2011**	**1/17/2012**	**7/10/2012**	**8/7/2012**	**11/19/2012**	**1/8/2013**	**4/11/2013**	**7/10/2013**	**1/9/2014**	**6/24/2014**	**1/14/2015**	**7/9/2015**	**12/15/2015**	**11/17/2016**
Laboratory		**Test America - North Canton**	**Test America - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**	**Test America - North Canton**	**Test America - North Canton**	**Test America - North Canton**	**Pace Analytical**	**Pace Analytical**	**Pace Analytical**	**Pace Analytical**	**Pace Analytical**	**Pace Analytical**
CONSTITUENT (µg/L)																
1,1,1-Trichloroethane	not established	**61**	**21**	**13**	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	16	<50	**1.2**	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7100	**160**	**50**	**53**	**7.3**	**1.4**	**20**	**17**	**14**	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	not established	<50	**1.5**	**1.5**	**2.5**	**4.4**	**6.9**	**8.2**	**8.7**	**3.1**	**2.4**	**4.7**	**3.2**	**2.2**	**3.1**	**1.6**
1,4-Dioxane	not established	<2500	NA	<100	<100	<100	NA	<250	<50	<50	<150	<150	<150	<150	<150	<150
Bromomethane	1500	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<2.0	**2**	<2.0	<2.0	<2.0	<2.0
Chloroethane	not established	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**3.8**	**1.3**	<1.0	**1.8**	<1.0	<1.0	<1.0	<1.0
Chloroform	470	<50	**1.5**	**1.3**	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	not established	**180**	**70**	**85**	**95**	**46**	**170**	**170**	**130**	**18**	**6.5**	**12.2**	**3.8**	**3.3**	**6.8**	**5.9**
Ethylbenzene	2100	<50	<1.0	<1.0	**4.6**	**13**	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	not established	<50	<1.0	<1.0	**5.0**	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5980	<50	**2.5**	<1.0	**180**	**22**	<1.0	<5.0	<1.0	<1.0	<1.0	**5.1**	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	10000	<50	<1.0	<1.0	<1.0	**2.3**	**2.2**	<5.0	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	30	**1700**	**280**	**340**	**16**	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2.4	<50	**2.5**	**2.5**	**20**	**9.3**	**84**	**71**	**81**	**21**	**13.8**	**31**	**15**	**12.4**	**30.6**	**18.1**
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	<20	NA	NA	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA	0	NA

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		Manson Branch #3 (MB#3)											
Sample Location		Surface water in Manson Branch located 500 ft downstream of Hwy 24											
Sample Date	Georgia Instream Water Quality Criteria (µg/L)	6/7/2000	6/7/2011	1/17/2012	7/10/2012	1/8/2013	7/10/2013	1/9/2014	6/24/2014	1/14/2015	7/10/2015	12/16/2015	11/17/2016
Laboratory		STL- North Canton	TestAmerica - Tampa	AES-Atlanta	AES-Atlanta	Test America - North Canton	Test America - North Canton	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical
CONSTITUENT (µg/L)													
1,1,1-Trichloroethane	not established	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	16	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7100	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	not established	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	not established	<250	NA	<100	<100	<50	<50	<150	<150	<150	<150	<150	<150
Bromomethane	1500	<10.0	<5.0	<5.0	<5.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	not established	<10.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	470	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	not established	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	2100	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	not established	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5980	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	10000	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	30	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2.4	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		Manson Branch #4	Manson Branch #5 (MB#5)											
Sample Location		Surface water in Manson Branch located 700 ft downstream of Hwy 24	Surface water in Manson Branch located 900 ft downstream of Hwy 24											
Sample Date	Georgia Instream Water Quality Criteria (µg/L)	6/7/2000	6/7/2000	6/7/2011	1/17/2012	7/10/2012	1/8/2013	7/10/2013	1/9/2014	6/24/2014	1/14/2015	7/10/2015	12/16/2015	11/17/2016
Laboratory		STL- North Canton	STL- North Canton	TestAmerica - Tampa	AES-Atlanta	AES-Atlanta	Test America - North Canton	Test America - North Canton	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical
CONSTITUENT (µg/L)														
1,1,1-Trichloroethane	not established	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	16	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7100	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	not established	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	not established	<250	<250	NA	<100	<100	<50	<50	<150	<150	<150	<150	<150	<150
Bromomethane	1500	<10.0	<10.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	not established	<10.0	<10.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	470	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	not established	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	2100	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	not established	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5980	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	10000	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	30	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2.4	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		Manson Branch #6	Manson Branch #7	Manson Branch #8	Manson Branch #9	Manson Branch #10	Manson Branch #11	Manson Branch #12	Manson Branch #14		
Sample Location		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	Surface water in Manson Branch located at Hwy 17 bridge	Surface water in Manson Branch located at Hwy 24 bridge		
Sample Date	Georgia Instream Water Quality Criteria (µg/L)	6/7/2000	6/7/2000	6/7/2000	6/6/2000	6/6/2000	6/6/2000	6/6/2000	1/15/2003	2/26/2008	4/22/2010
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	Test America - North Canton	Test America - North Canton
CONSTITUENT (µg/L)											
1,1,1-Trichloroethane	not established	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
1,1,2-Trichloroethane	16	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0
1,1-Dichloroethene	7100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
1,1-Dichloroethane	not established	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0
1,4-Dioxane	not established	<250	<250	<250	<250	<250	<250	<250	<200	<250	<250
Bromomethane	1500	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<1.0	<10.0	<10.0
Chloroethane	not established	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<1.0	<10.0	<10.0
Chloroform	470	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0
cis-1,2-Dichloroethene	not established	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.50	<2.5	<2.5
Ethylbenzene	2100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
p-Isopropyltoluene	not established	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0	<5.0
Toluene	5980	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
trans-1,2-Dichloroethene	10000	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.50	<2.5	<2.5
Trichloroethene	30	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Vinyl Chloride	2.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<2.0	<2.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		Manson Branch #15 (MB#15)													
Sample Location		Surface water in Manson Branch located about 450 ft downstream of Hwy 24 bridge													
Sample Date	Georgia Instream Water Quality Criteria (µg/L)	1/15/2003	2/27/2008	4/21/2010	6/7/2011	1/17/2012	7/10/2012	1/8/2013	7/10/2013	1/9/2014	6/24/2014	1/14/2015	7/10/2015	12/16/2015	11/17/2016
Laboratory		STL- North Canton	Test America - North Canton	Test America - North Canton	Test America - North Canton	AES-Atlanta	AES-Atlanta	Test America - North Canton	Test America - North Canton	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical
CONSTITUENT (µg/L)															
1,1,1-Trichloroethane	not established	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	16	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7100	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	not established	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	not established	<200	<250	<250	NA	<100	<100	<50	<50	<150	<150	<150	<150	<150	<150
Bromomethane	1500	<1.0	<10.0	<10.0	<5.0	<5.0	<5.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	not established	<1.0	<10.0	<10.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	470	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	not established	<0.50	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	2100	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	not established	NA	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5980	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	10000	<0.50	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	30	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2.4	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		**Manson Branch #16 (MB#16)**													
Sample Location		**Surface water in Manson Branch located about 700 ft downstream of Hwy 24 bridge, opposite side of stream from wells MW-16/MW-18**													
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**1/15/2003**	**2/27/2008**	**4/21/2010**	**6/7/2011**	**1/17/2012**	**7/10/2012**	**1/8/2013**	**7/10/2013**	**1/9/2014**	**6/27/2014**	**1/14/2015**	**7/10/2015**	**12/15/2015**	**11/17/2016**
Laboratory		**STL- North Canton**	**Test America - North Canton**	**Test America - North Canton**	**Test America - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**Test America - North Canton**	**Test America - North Canton**	**Pace Analytical**		**Pace Analytical**	**Pace Analytical**	**Pace Analytical**	**Pace Analytical**
CONSTITUENT (µg/L)															
1,1,1-Trichloroethane	not established	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	16	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7100	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	not established	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	not established	<200	<250	<250	NA	<100		<50	<50	<150		<150	<150	<150	<150
Bromomethane	1500	<1.0	<10.0	<10.0	<5.0	<5.0		<1.0	<1.0	<2.0		<2.0	<2.0	<2.0	<2.0
Chloroethane	not established	<1.0	<10.0	<10.0	<5.0	<5.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Chloroform	470	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	not established	<0.50	<2.5	<2.5	<1.0	<1.0	DRY	<1.0	<1.0	<1.0	DRY	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	2100	<1.0	<5.0	<5.0	<1.0	<1.0	Not Sampled	<1.0	<1.0	<1.0	Not Sampled	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	not established	NA	<5.0	<5.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Toluene	5980	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	10000	<0.50	<2.5	<2.5	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Trichloroethene	30	<1.0	<5.0	<5.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2.4	<1.0	<2.0	<2.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	<2.0	NA		NA	NA	NA		NA	NA	NA	NA

TABLE 1: 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**
Laboratory		**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**Test America - North Canton**	**Test America - North Canton**	**Test America - Tampa**	**AES-Atlanta**	**AES-Atlanta**	**AES-Atlanta**
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
1,1,2-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
1,1-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
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
1,4-Dioxane	not established	<250	<250	<200	<250	<250	<250	<250	<250	<250	NA	<100	<100	<100
Bromomethane	1500	<10.0	<10.0	<1.0	<5.0	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	not established	<10.0	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
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
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**
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
p-Isopropyltoluene	not established	<5.0	<5.0	NA	NA	NA	NA	NA	<5.0	<5.0	**4.5**	<1.0	<1.0	<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**
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
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**
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
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	NA	NA	<5.0

TABLE 1: 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)	11/19/2012	1/8/2013	4/11/2013	7/10/2013	1/9/2014	6/24/2014	1/14/2015	7/9/2015	12/15/2015	11/17/2016
Laboratory		AES-Atlanta	TestAmerica - NorthCanton	TestAmerica - NorthCanton	TestAmerica - NorthCanton	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical
CONSTITUENT (µg/L)											
1,1,1-Trichloroethane	not established	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7100	**3.7**	**4.6**	**3.1**	**1.2**	<1.0	<1.0	<1.0	<1.0	**1.0**	<1.0
1,1-Dichloroethane	not established	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	not established	NA	<50	<50	<50	<150	<150	<150	<150	<150	<150
Bromomethane	1500	<5.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	not established	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	470	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	not established	**23**	**21**	**18**	**11**	**3**	**7.1**	**3.9**	**13.4**	**8.1**	**6.6**
Ethylbenzene	2100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	not established	**2.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5980	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	10000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	30	**23**	**26**	**13**	**4.5**	**2.5**	**1.7**	**6.1**	**1.0**	**6.9**	**3.2**
Vinyl Chloride	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		Seep A						
Sample Location		Northeast CornerThermo 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
Laboratory		STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	Test America - North Canton	Test America - North Canton
CONSTITUENT (µg/L)								
1,1,1-Trichloroethane	not established	<1.0		<5.0	<5.0		<5.0	
1,1,2-Trichloroethane	16	<1.0		<5.0	<5.0		<5.0	
1,1-Dichloroethene	7100	<1.0		<5.0	<5.0		<5.0	
1,1-Dichloroethane	not established	<1.0		<5.0	<5.0		<5.0	
1,4-Dioxane	not established	<200		<250	<250		<250	
Bromomethane	1500	<1.0		<5.0	<5.0		<10.0	
Chloroethane	not established	<1.0		<5.0	<5.0		<10.0	
Chloroform	470	<1.0		<5.0	<5.0		<5.0	
cis-1,2-Dichloroethene	not established	<0.50	DRY	<5.0	<5.0	DRY	<2.5	DRY
Ethylbenzene	2100	<1.0	Not Sampled	<5.0	<5.0	Not Sampled	<5.0	Not Sampled
p-Isopropyltoluene	not established	NA		NA	NA		<5.0	
Toluene	5980	<1.0		<5.0	<5.0		<5.0	
trans-1,2-Dichloroethene	10000	<0.50		<5.0	<5.0		<2.5	
Trichloroethene	30	<1.0		<5.0	<5.0		<5.0	
Vinyl Chloride	2.4	<1.0		<2.0	<2.0		<2.0	
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA		NA	NA		NA	

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		Seep B											
Sample Location		Thermo King Eastern Parcel											
Sample Date	Georgia Instream Water Quality Criteria (µg/L)	1/15/2003	3/24/2004	6/23/2004	8/30/2004	11/17/2004	2/27/2008	4/21/2010	6/3/2010	June 2011	1/17/2012	7/10/2012	8/7/2012
Laboratory		STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	Test America - North Canton	Test America - North Canton	Test America - North Canton	Test America - Tampa	AES-Atlanta	AES- Atlanta	AES- Atlanta
CONSTITUENT (µg/L)													
1,1,1-Trichloroethane	not established	<1.0	<5.0	<5.0	<5.0	**10**	<5.0				<1.0		
1,1,2-Trichloroethane	16	<1.0	<5.0	<5.0	<5.0	<8.4	<5.0				<1.0		
1,1-Dichloroethene	7100	<1.0	<5.0	<5.0	<5.0	<8.4	<5.0				<1.0		
1,1-Dichloroethane	not established	<1.0	<5.0	<5.0	<5.0	<8.4	<5.0				<1.0		
1,4-Dioxane	not established	<200	<250	<250	<250	<420	<250				<100		
Bromomethane	1500	<1.0	<5.0	<5.0	<5.0	<8.4	<10.0				<5.0		
Chloroethane	not established	<1.0	<5.0	<5.0	<5.0	<8.4	<10.0				<5.0		
Chloroform	470	<1.0	<5.0	<5.0	<5.0	<8.4	<5.0				<1.0		
cis-1,2-Dichloroethene	not established	<0.50	<5.0	<5.0	<5.0	**16**	<2.5	DRY	DRY	DRY	<1.0	DRY	DRY
Ethylbenzene	2100	<1.0	<5.0	<5.0	<5.0	<8.4	<5.0	Not Sampled	Not Sampled	Not Sampled	<1.0	Not Sampled	Not Sampled
p-Isopropyltoluene	not established	NA	NA	NA	NA	NA	<5.0				<1.0		
Toluene	5980	<1.0	<5.0	<5.0	<5.0	<8.4	<5.0				<1.0		
trans-1,2-Dichloroethene	10000	<0.50	<5.0	<5.0	<5.0	<8.4	<2.5				<1.0		
Trichloroethene	30	<1.0	<5.0	<5.0	<5.0	**41**	<5.0				**2.9**		
Vinyl Chloride	2.4	<1.0	<2.0	<2.0	<2.0	<3.3	<2.0				<1.0		
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA	NA				NA		

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		Seep B									
Sample Location		Thermo King Eastern Parcel									
Sample Date	Georgia Instream Water Quality Criteria (µg/L)	11/19/2012	1/8/2013	4/11/2013	7/10/2013	1/9/2014	6/24/2014	1/14/2015	7/9/2015	12/15/2015	11/17/2016
Laboratory		AES- Atlanta	Test America - North Canton	Test America - North Canton	Test America - North Canton	Pace Analytical		Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical
CONSTITUENT (µg/L)											
1,1,1-Trichloroethane	not established	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	
1,1,2-Trichloroethane	16	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	
1,1-Dichloroethene	7100	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	
1,1-Dichloroethane	not established	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	
1,4-Dioxane	not established	NA	<50	<50	<50	<150		<150		<150	
Bromomethane	1500	<5.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	
Chloroethane	not established	<5.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	
Chloroform	470	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	
cis-1,2-Dichloroethene	not established	<1.0	<1.0	**27**	**5.2**	**3**	DRY	**9.3**	DRY	**7.9**	DRY
Ethylbenzene	2100	<1.0	<1.0	<1.0	<1.0	<1.0	Not Sampled	<1.0	Not Sampled	<1.0	Not Sampled
p-Isopropyltoluene	not established	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	
Toluene	5980	<1.0	<1.0	**12**	**1.5**	<1.0		<1.0		**1.7**	
trans-1,2-Dichloroethene	10000	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	
Trichloroethene	30	<1.0	<1.0	**6.3**	**1.2**	**1.4**		**2**		**1.5**	
Vinyl Chloride	2.4	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	<5.0	NA	NA	NA	NA		NA		NA	

TABLE 1: 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**	**Test America - North Canton**	**Test America - North Canton**	**Test America - North Canton**	**Test America - 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	
1,1,2-Trichloroethane	16	<25	<140	<5.0	<310	<190	<10.0	<12	NA	**1.0**	<1.0	<1.0	
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	<10.0	<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
Bromomethane	1500	<1.0	<140	<5.0	<310	<190	<20.0	<25	NA	<5.0	<5.0	<5.0	rip-rap
Chloroethane	not established	<25	<140	<5.0	<310	<190	<20.0	<25	NA	<5.0	<5.0	<5.0	and is no
Chloroform	470	<25	<140	<5.0	<310	<190	<10.0	<12	NA	**2.3**	**2.5**	<1.0	longer
cis-1,2-Dichloroethene	not established	**13**	<140	<5.0	<310	<190	**11**	**12**	NA	**19**	**130**	**32**	sampled
Ethylbenzene	2100	<25	<140	<5.0	<310	<190	<10.0	<12	NA	<1.0	<1.0	**25**	
p-Isopropyltoluene	not established	NA	NA	NA	NA	NA	<10.0	<12	NA	<1.0	<1.0	<1.0	
Toluene	5980	<25	<140	<5.0	<310	<190	<10.0	<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	<10.0	<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 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		Seep D						
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	2/27/2008	4/21/2010
Laboratory		STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	Test America - North Canton	Test America - North Canton
CONSTITUENT (µg/L)								
1,1,1-Trichloroethane	not established	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	16	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7100	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	not established	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	not established	<200	<250	<250	<250	<250	<250	<250
Bromomethane	1500	<1.0	<5.0	<5.0	<5.0	<5.0	<10.0	<10.0
Chloroethane	not established	<1.0	<5.0	<5.0	<5.0	<5.0	<10.0	<10.0
Chloroform	470	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	not established	<0.50	<5.0	<5.0	<5.0	<5.0	<2.5	<2.5
Ethylbenzene	2100	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	not established	NA	NA	NA	NA	NA	<5.0	<5.0
Toluene	5980	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	10000	<0.50	<5.0	<5.0	<5.0	<5.0	<2.5	<2.5
Trichloroethene	30	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	2.4	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA	NA	NA

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		Seep G											
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	June 2011	1/17/2012	7/10/2012	8/7/2012	11/19/2012
Laboratory		STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	Test America - North Canton	Test America - North Canton	Test America - Tampa	AES-Atlanta	AES-Atlanta	AES-Atlanta	AES-Atlanta
CONSTITUENT (µg/L)													
1,1,1-Trichloroethane	not established	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0		<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	16	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0		<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7100	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0		**1.9**	**5.2**	<1.0	<1.0
1,1-Dichloroethane	not established	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0		<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	not established	<200	<250	<250	<360	<250	<250	<250		<100	<100	<100	NA
Bromomethane	1500	<1.0	<5.0	<5.0	<7.2	<5.0	<10.0	<10.0		<5.0	<5.0	<5.0	<5.0
Chloroethane	not established	<1.0	<5.0	<5.0	<7.2	<5.0	<10.0	<10.0		<5.0	<5.0	<5.0	<5.0
Chloroform	470	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0		<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	not established	**0.73**	**13**	**9.3**	<7.2	<5.0	<2.5	**7.7**	DRY	**7.4**	**49**	**6.2**	**7.6**
Ethylbenzene	2100	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0	Not Sampled	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	not established	NA	NA	NA	NA	NA	<5.0	<5.0		<1.0	<1.0	<1.0	**2.6**
Toluene	5980	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	<5.0		<1.0	**6.4**	**2.4**	<1.0
trans-1,2-Dichloroethene	10000	<0.50	<5.0	<5.0	<7.2	<5.0	<2.5	<2.5		<1.0	<1.0	<1.0	<1.0
Trichloroethene	30	<1.0	<5.0	<5.0	<7.2	<5.0	<5.0	**7.8**		**2.6**	<1.0	<1.0	**3.8**
Vinyl Chloride	2.4	<1.0	<2.0	<2.0	<2.9	<2.0	<2.0	<2.0		<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	<5.0	<5.0

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		Seep G									Seep H						
Sample Location		Thermo King Eastern Parcel									Thermo King Eastern Parcel						
Sample Date	Georgia Instream Water Quality Criteria (µg/L)	1/8/2013	4/11/2013	7/10/2013	1/9/2014	6/24/2014	1/14/2015	7/9/2015	12/15/2015	11/17/2016	1/15/2003	3/24/2004	6/23/2004	8/31/2004	11/17/2004	2/26/2008	4/21/2010
Laboratory		Test America - North Canton	Test America - North Canton	Test America - North Canton	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	Test America - North Canton	Test America - North Canton
CONSTITUENT (µg/L)																	
1,1,1-Trichloroethane	not established	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7100	**2.2**	**1.7**	<1.0	<1.0	**1.6**	**1.5**	**2.4**	**1.2**	**1.6**	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	**6.0**
1,1-Dichloroethane	not established	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	not established	<50	<50	<50	<150	<150	<150	<150	<150	<150	<200	<250	<420	<250	<250	<250	<250
Bromomethane	1500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0	<5.0	<8.4	<5.0	<5.0	<10.0	<10.0
Chloroethane	not established	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<8.4	<5.0	<5.0	<10.0	<10.0
Chloroform	470	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	not established	**11**	**9.7**	**6.4**	**3.2**	**11**	**9.6**	**20.2**	**11**	**12.7**	**6.9**	**12**	**30**	**13**	**27**	<2.5	**26**
Ethylbenzene	2100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	not established	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	NA	NA	NA	NA	NA	<5.0	<5.0
Toluene	5980	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<8.4	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	10000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<8.4	<5.0	<5.0	<2.5	<2.5
Trichloroethene	30	**4.8**	**7.0**	<1.0	<1.0	<1.0	**2.4**	<1.0	<1.0	**2.0**	**24**	**15**	<8.4	<5.0	**7.1**	**5.1**	**38**
Vinyl Chloride	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<3.3	<2.0	<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	NA	NA	NA

TABLE 1: 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)	6/3/2010	June 2011	1/17/2012	7/10/2012	8/7/2012	11/19/2012	1/8/2013	4/11/2013	7/10/2013	1/9/2014	6/24/2014	1/14/2015	7/9/2015
Laboratory		Test America - North Canton	Test America - Tampa	AES-Atlanta	AES-Atlanta	AES-Atlanta	AES-Atlanta	Test America - North Canton	Test America - North Canton	Test America - North Canton	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical
CONSTITUENT (µg/L)														
1,1,1-Trichloroethane	not established	<2.0		<1.0	<1.0	**15**	**20**	<20	**12**	**9.6**	**4**	**3.5**	**3.1**	**1.4**
1,1,2-Trichloroethane	16	<2.0		<1.0	<1.0	<1.0	<1.0	<20	<2.5	<1.7	<1.0	<1.0	<2.0	<1.0
1,1-Dichloroethene	7100	**12**		**2.3**	**6.7**	**69**	**140**	**84**	**77**	**58**	**29.1**	**27.9**	**25.8**	**21.2**
1,1-Dichloroethane	not established	<2.0		<1.0	**2.0**	**1.1**	<1.0	<20	<2.5	<1.7	<1.0	<1.0	<2.0	<1.0
1,4-Dioxane	not established	<100		<100	<100	<100	NA	<1000	<130	<84	<150	<150	<300	<150
Bromomethane	1500	<2.0		<5.0	<5.0	<5.0	<5.0	<20	<2.5	<1.7	<2.0	<2.0	<4.0	**3.4**
Chloroethane	not established	<2.0		<5.0	<5.0	<5.0	<5.0	<20	<2.5	<1.7	<1.0	<1.0	<2.0	<1.0
Chloroform	470	<2.0		<1.0	<1.0	**2.6**	**2.3**	<20	<2.5	<1.7	<1.0	<1.0	<2.0	<1.0
cis-1,2-Dichloroethene	not established	**63**	DRY	**16**	**110**	**120**	**64**	**47**	**45**	**64**	**22.3**	**45.2**	**33.8**	**75.9**
Ethylbenzene	2100	<2.0	Not Sampled	<1.0	<1.0	<1.0	<1.0	<20	<2.5	<1.7	<1.0	<1.0	<2.0	<1.0
p-Isopropyltoluene	not established	<2.0		<1.0	<1.0	<1.0	<1.0	<20	<2.5	<1.7	<1.0	<1.0	<2.0	<1.0
Toluene	5980	<2.0		<1.0	**170**	**19**	**1.6**	<20	<2.5	**1.8**	<1.0	<1.0	<2.0	<1.0
trans-1,2-Dichloroethene	10000	<2.0		<1.0	**3.8**	<1.0	<1.0	<20	<2.5	<1.7	<1.0	<1.0	<2.0	<1.0
Trichloroethene	30	**41**		**2.0**	<1.0	**800**	**550**	**610**	**530**	**490**	**180**	**185**	**359**	**157**
Vinyl Chloride	2.4	<2.0		<1.0	**31**	<1.0	<1.0	<20	<2.5	<1.7	<1.0	<1.0	<2.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA		NA	NA	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		Seep H		Seep I										
Sample Location		Thermo King Eastern Parcel		Thermo King Eastern Parcel										
Sample Date	Georgia Instream Water Quality Criteria (µg/L)	12/15/2015	11/17/2016	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
Laboratory		Pace Analytical	Pace Analytical	STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	Test America - North Canton	Test America - North Canton	Test America - Tampa	AES-Atlanta	AES-Atlanta	
CONSTITUENT (µg/L)														
1,1,1-Trichloroethane	not established	**3.1**	**1.2**	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	<1.0	<1.0	**9.5**	
1,1,2-Trichloroethane	16	<1.0	<1.0	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	
1,1-Dichloroethene	7100	**30.7**	**19.4**	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	**9.3**	<1.0	**60**	
1,1-Dichloroethane	not established	<1.0	<1.0	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	**1.9**	<1.0	<1.0	
1,4-Dioxane	not established	<150	<150	<200	<250	<250		<250	<250	<250	NA	<100	<100	
Bromomethane	1500	<2.0	<2.0	<1.0	<5.0	<5.0		<5.0	<10.0	<10.0	<5.0	<5.0	<5.0	
Chloroethane	not established	<1.0	<1.0	<1.0	<5.0	<5.0		<5.0	<10.0	<10.0	<5.0	<5.0	<5.0	
Chloroform	470	**1.5**	**1.3**	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	<1.0	<1.0	**2.2**	
cis-1,2-Dichloroethene	not established	**40.1**	**32.9**	<0.50	<5.0	<5.0	DRY	<5.0	<2.5	<2.5	**64**	<1.0	**68**	DRY
Ethylbenzene	2100	<1.0	<1.0	<1.0	<5.0	<5.0	not sampled	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	not sampled
p-Isopropyltoluene	not established	<1.0	<1.0	NA	NA	NA		NA	<5.0	<5.0	**1.4**	<1.0	<1.0	
Toluene	5980	<1.0	<1.0	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	**2.3**	<1.0	**17**	
trans-1,2-Dichloroethene	10000	<1.0	<1.0	<0.50	<5.0	<5.0		<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	
Trichloroethene	30	**275**	**169**	<1.0	<5.0	<5.0		<5.0	<5.0	<5.0	**2.5**	<1.0	**380**	
Vinyl Chloride	2.4	<1.0	<1.0	<1.0	<2.0	<2.0		<2.0	<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	NA	<2.0	NA	NA	

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

Sample Identification		Seep I										Seep J				
Sample Location		Thermo King Eastern Parcel										Thermo King Eastern Parcel				
Sample Date	Georgia Instream Water Quality Criteria (µg/L)	11/19/2012	1/8/2013	4/11/2013	7/10/2013	1/9/2014	6/27/2014	1/14/2015	7/9/2015	12/16/2015	11/17/2016	5/14/2003	3/24/2004	6/23/2004	8/31/2004	11/17/2004
Laboratory		AES-Atlanta	Test America - North Canton	Test America - North Canton	Test America - North Canton	Pace Analytical		Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton
CONSTITUENT (µg/L)																
1,1,1-Trichloroethane	not established	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0	<25	<5.0	<12.0	<33	<25
1,1,2-Trichloroethane	16	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0	<25	<5.0	<12.0	<33	<25
1,1-Dichloroethene	7100	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0	<25	<5.0	<12.0	<33	<25
1,1-Dichloroethane	not established	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0	<25	<5.0	<12.0	<33	<25
1,4-Dioxane	not established	NA	<50	<50	<50	<150		<150		<150	<150	<1000	<250	<620	<1700	<1200
Bromomethane	1500	<5.0	<1.0	<1.0	<1.0	<2.0		<2.0		<2.0	<2.0	<25	<5.0	<12.0	<33	<25
Chloroethane	not established	<5.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0	<25	<5.0	<12.0	<33	<25
Chloroform	470	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0	<25	<5.0	<12.0	<33	<25
cis-1,2-Dichloroethene	not established	<1.0	<1.0	<1.0	**1.3**	<1.0	DRY	<1.0	DRY	**1.1**	<1.0	**910**	**84**	**66**	**190**	**110**
Ethylbenzene	2100	<1.0	<1.0	<1.0	<1.0	<1.0	not sampled	<1.0	not sampled	<1.0	<1.0	<25	<5.0	<12.0	<33	<25
p-Isopropyltoluene	not established	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0	NA	NA	NA	NA	NA
Toluene	5980	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0	**280**	<5.0	<12.0	<33	<25
trans-1,2-Dichloroethene	10000	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0	**13**	<5.0	<12.0	<33	<25
Trichloroethene	30	<1.0	<1.0	**4.2**	**1.9**	<1.0		<1.0		<1.0	<1.0	<25	<5.0	<12.0	<33	<25
Vinyl Chloride	2.4	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0	<25	**26**	<5.0	<13	**11**
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	<5.0	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA	NA	NA

TABLE 1: 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)	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		Test America - North Canton	Test America - North Canton	STL- North Canton	STL- North Canton	STL- North Canton	STL- North Canton	Test America - North Canton	Test America - North Canton
CONSTITUENT (µg/L)									
1,1,1-Trichloroethane	not established	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	16	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
1,1-Dichloroethene	7100	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
1,1-Dichloroethane	not established	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
1,4-Dioxane	not established	<250	<250	<250	<250	<1000	<250	<250	<250
Bromomethane	1500	<10.0	<10.0	<5.0	<5.0	<20	<5.0	<10.0	<10.0
Chloroethane	not established	<10.0	<10.0	<5.0	<5.0	<20	<5.0	<10.0	<10.0
Chloroform	470	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	not established	<2.5	<2.5	**10**	<5.0	**85**	<5.0	**12**	**5.3**
Ethylbenzene	2100	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
p-Isopropyltoluene	not established	<5.0	<5.0	NA	NA	NA	NA	<5.0	<5.0
Toluene	5980	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	10000	<2.5	<2.5	<5.0	<5.0	<20	<5.0	<2.5	<2.5
Trichloroethene	30	<5.0	<5.0	<5.0	<5.0	<20	<5.0	**13**	**5.8**
Vinyl Chloride	2.4	<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

TABLE 1: 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**
Laboratory		**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**STL- North Canton**	**Test America - North Canton**	**Test America - North Canton**	**Test America - North Canton**	**Test America - Tampa**	**AES- Atlanta**	**AES- Atlanta**	**AES- Atlanta**
CONSTITUENT (µg/L)												
1,1,1-Trichloroethane	not established	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0		
1,1,2-Trichloroethane	16	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0		
1,1-Dichloroethene	7100	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0		
1,1-Dichloroethane	not established	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0		
1,4-Dioxane	not established	<250	<250	<250	<250	<250		<50		<100		
Bromomethane	1500	<5.0	<5.0	<5.0	<5.0	<10.0		<1.0		<5.0		
Chloroethane	not established	<5.0	<5.0	<5.0	<5.0	<10.0		<1.0		<5.0		
Chloroform	470	<5.0	<5.0	<5.0	<5.0	<5.0		<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
Ethylbenzene	2100	<5.0	<5.0	<5.0	<5.0	<5.0	not sampled	<1.0	not sampled	<1.0	not sampled	not sampled
p-Isopropyltoluene	not established	NA	NA	NA	NA	<5.0		<1.0		<1.0		
Toluene	5980	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0		
trans-1,2-Dichloroethene	10000	<5.0	<5.0	<5.0	<5.0	<2.5		<1.0		<1.0		
Trichloroethene	30	<5.0	<5.0	<5.0	<5.0	<5.0		<1.0		<1.0		
Vinyl Chloride	2.4	<2.0	<2.0	<2.0	<2.0	<2.0		<1.0		<1.0		
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	NA	NA	NA	NA	NA		NA		NA		

TABLE 1: SUMMARY OF DETECTED CONSTITUENTS IN SEEPS AND SURFACE WATER

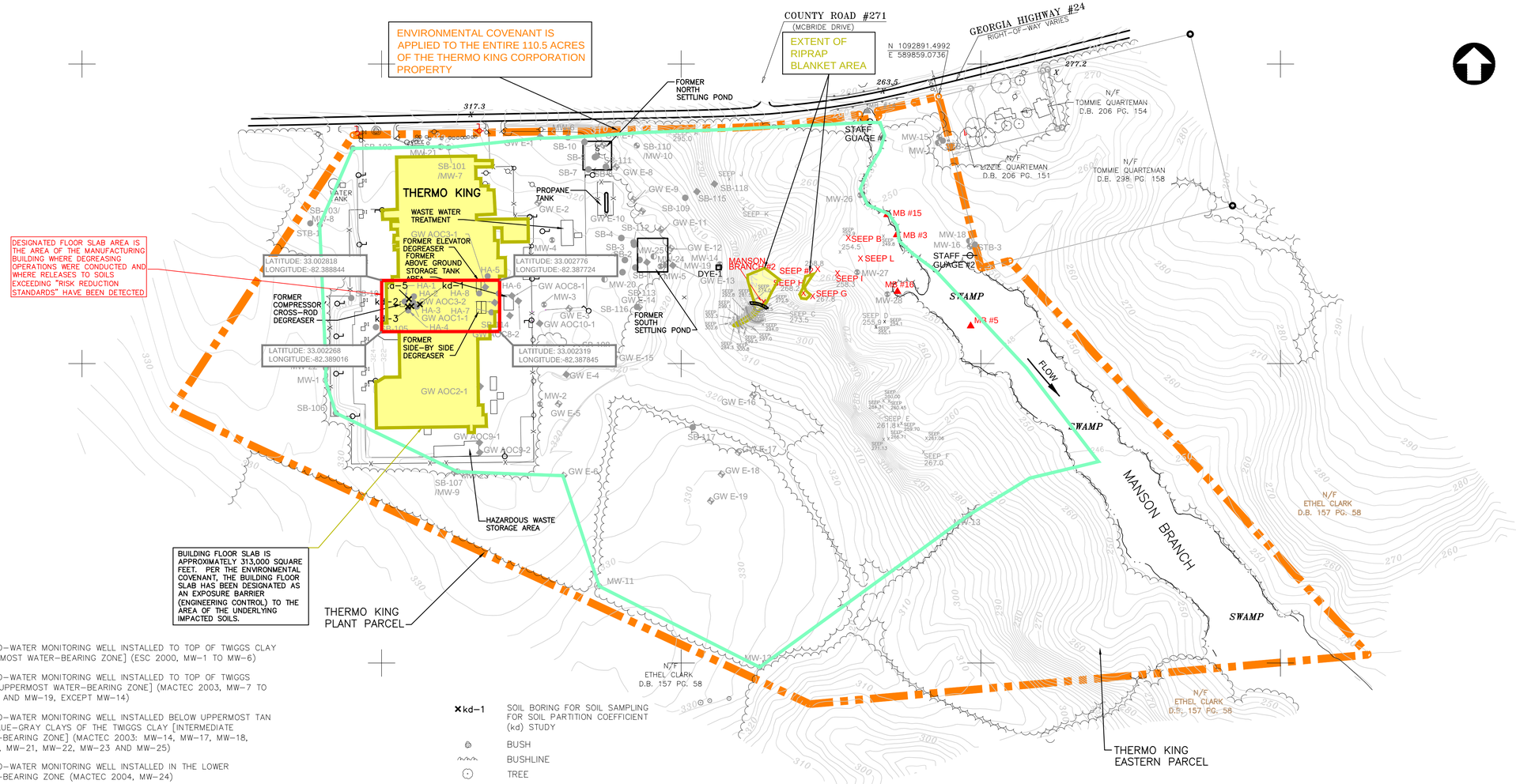
Sample Identification		**Seep L**									
Sample Location		**Northeast CornerThermo King Eastern Parcel**									
Sample Date	**Georgia Instream Water Quality Criteria (µg/L)**	**11/19/2012**	**1/8/2013**	**4/11/2013**	**7/10/2013**	**1/9/2014**	**6/24/2014**	**1/14/2015**	**7/9/2015**	**12/16/2015**	**11/17/2016**
Laboratory		**AES- Atlanta**	**Test America - North Canton**	**Test America - North Canton**	**Test America - North Canton**	**Pace Analytical**	**Pace Analytical**	**Pace Analytical**	**Pace Analytical**	**Pace Analytical**	**Pace Analytical**
CONSTITUENT (µg/L)											
1,1,1-Trichloroethane	not established	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
1,1,2-Trichloroethane	16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
1,1-Dichloroethene	7100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
1,1-Dichloroethane	not established	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
1,4-Dioxane	not established	NA	<50	<50	<50	<150	<150	<150		<150	<150
Bromomethane	1500	<5.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0		<2.0	<2.0
Chloroethane	not established	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Chloroform	470	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
cis-1,2-Dichloroethene	not established	**2.0**	**5.9**	**4.6**	<1.0	<1.0	<1.0	**2.4**	DRY	<1.0	<1.0
Ethylbenzene	2100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	not sampled	<1.0	<1.0
p-Isopropyltoluene	not established	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Toluene	5980	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
trans-1,2-Dichloroethene	10000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Trichloroethene	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**		<1.0	<1.0
Vinyl Chloride	2.4	<1.0	**1.3**	**2.1**	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
1,4-Dioxane - Selective Ion Monitoring SW8260B	not established	<5.0	NA	NA	<1.0	NA	NA	NA		NA	NA

Notes:

µg/L	micrograms per liter
Hwy	Highway
NA	Sample not analyzed for this constituent
E	Estimated; result exceeds calibration range
(a)	Georgia 391-3-6-.03 Water Use Classifications and Water Quality Standards. (ISWQC) 10/22/2013
	Exceeds Georgia ISWQC
BOLD	**Detected Concentration**

Prepared by/Date: MHA 7/30/2015 DP 1/7/2016
Checked by/Date: RNQ 8/13/2015 1/14/2016 12/1/2016

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–16 AND MW–19, EXCEPT MW–14)
- 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 THE LOWER WATER–BEARING ZONE (MACTEC 2004, MW–24)
- GW E–2 — DIRECT–PUSH TECHNOLOGY BORING FOR GROUND–WATER SAMPLING (LAW 2000: GW E–1 TO GW E–19, UPPERMOST WATER–BEARING ZONE)
- GW E–1 — SOIL BORING FOR SOIL AND GROUND–WATER SAMPLING (LAW 2000 AND MACTEC 2003: GW E–1, GW E–4, GW E–13, GW AOC1–1, GW AOC2–1, GW AOC3–1, GW AOC3–2, GW AOC8–1, GW AOC8–2, GW AOC9–1, GW AOC9–2, GW AOC10–1, SB–113, SB–114, SB–115, AND SB–118, UPPERMOST WATER–BEARING ZONE)
- SB–7 — SOIL BORING FOR SOIL SAMPLING (ESC 2000 AND MACTEC 2003: SB–1 TO SB–10, SB–101 TO SB–112, SB–116 AND SB–117 AND HA–1 TO HA–8) (SOIL BORINGS FOR SOIL SAMPLING SB–101, SB–103, SB–107, SB–110 WERE COMPLETED AS MONITORING WELLS MW–7, MW–8, MW–9, AND MW–10 RESPECTIVELY) BORINGS STB–1, STB–2 AND STB–3 ARE STRATIGRAPHIC BORINGS
- SEEP A 299.0 — WATER SEEP WITH ELEVATION SAMPLED FOR SURFACE WATER FOR LABORATORY ANALYSIS (MACTEC 2003: Seeps A through L, Manson Branch #2, and Seep #2)
- XSEEP 252.9 — WATER SEEP WITH ELEVATION
- MB #14 — MANSON BRANCH SURFACE WATER SAMPLING LOCATION (MACTEC 2003: MB#14, MB#15, MB#16)
- STAFF GUAGE FOR MEASURING SURFACE WATER ELEVATION
- DYE INJECTION WELL
- kd–1 — SOIL BORING FOR SOIL SAMPLING FOR SOIL PARTITION COEFFICIENT (kd) STUDY
- BUSH
- BUSHLINE
- TREE
- TREELINE
- HEDGE
- STREAM
- FENCE
- 300 — TOPOGRAPHIC CONTOUR
- DI — DROP INLET
- LIGHT POLE
- PROPERTY BOUNDARY
- EXTENT OF HSRA DEFINED SITE
- THERMO KING PROPERTY BOUNDARY
- BUILDING FLOOR SLAB AND RIP–RAP BLANKET ARE ENGINEERING CONTROLS. THE BUILDING FLOOR SLAB IS AN EXPOSURE BARRIER TO UNDERLYING SUB–SLAB VOC–IMPACTED SOILS. THE RIP–RAP BLANKET (APPROXIMATELY 11,100 SQUARE FEET) TO PRECLUDE THE SURFACE EXPRESSION OF SEEP WATER WITH CONCENTRATIONS GREATER THAN IN–STREAM WATER QUALITY CRITERIA (ISWQC)

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 SAMPLING LOCATIONS SURVEYED BY McGILL & ASSOCIATES OCTOBER 2000. 2003 AND 2004 SAMPLING LOCATIONS SURVEYED BY MACTEC ENGINEERING AND CONSULTING, INC. IN SEPTEMBER 2003 AND DECEMBER 2004. LOCATIONS OF FORMER NORTH AND SOUTH SETTLING PONDS APPROXIMATED FROM HISTORICAL AERIAL PHOTOGRAPHS.

SCALE IN FEET
0 200 400

DESIGNED	R. QUINN
DRAWN	T. GLADSTONE
CHECKED	R. QUINN
IN CHARGE	D. ALCOTT
DATE	12/7/2016

THERMO KING CORPORATION
LOUISVILLE, GEORGIA

AMEC FOSTER WHEELER
ENVIRONMENT & INFRASTRUCTURE, INC.
1075 BIG SHANTY ROAD, NW, SUITE 100
KENNESAW, GEORGIA 30144 (770) 421–3400

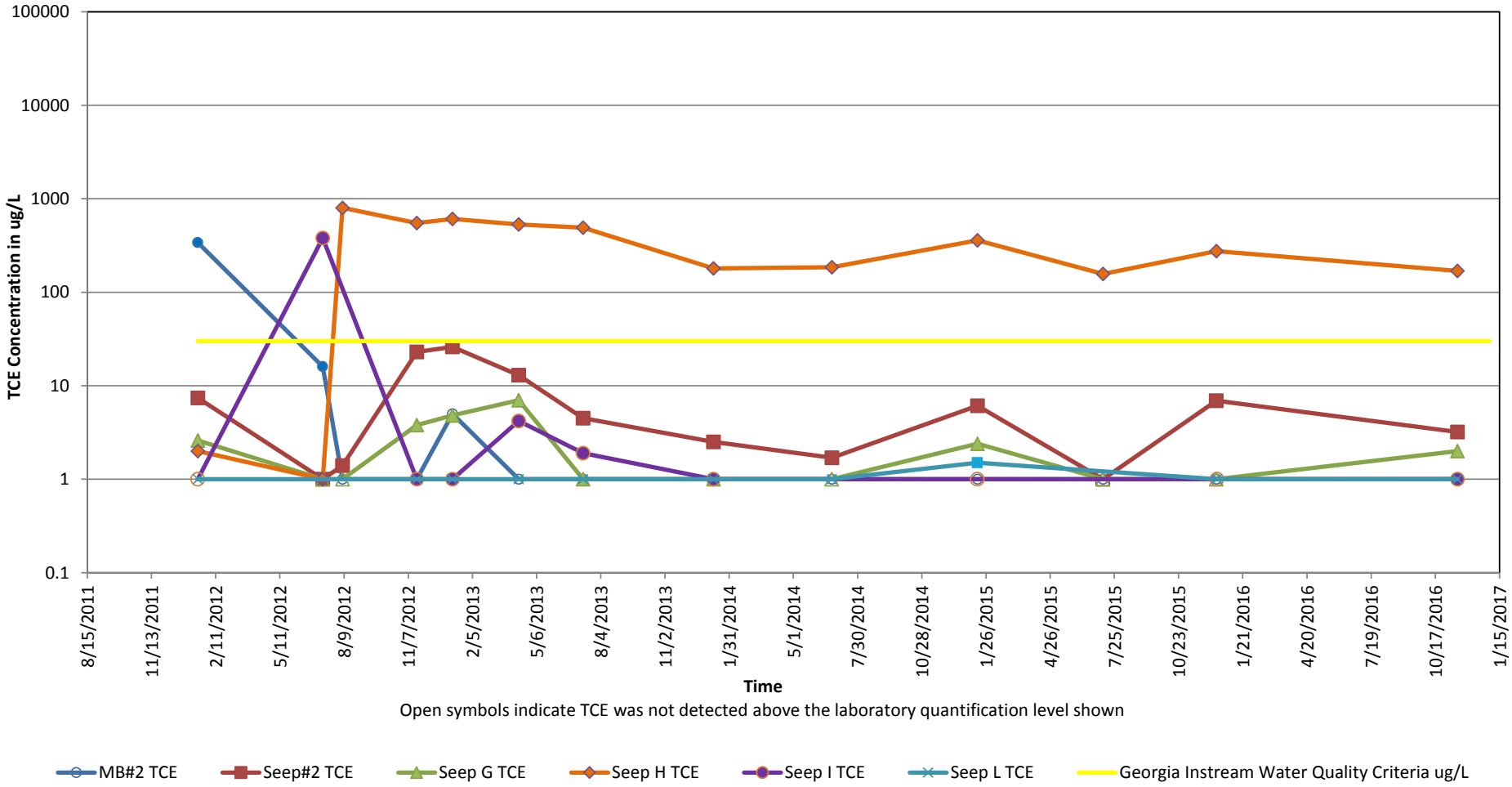
amec foster wheeler

SITE PLAN

FIGURE: 1

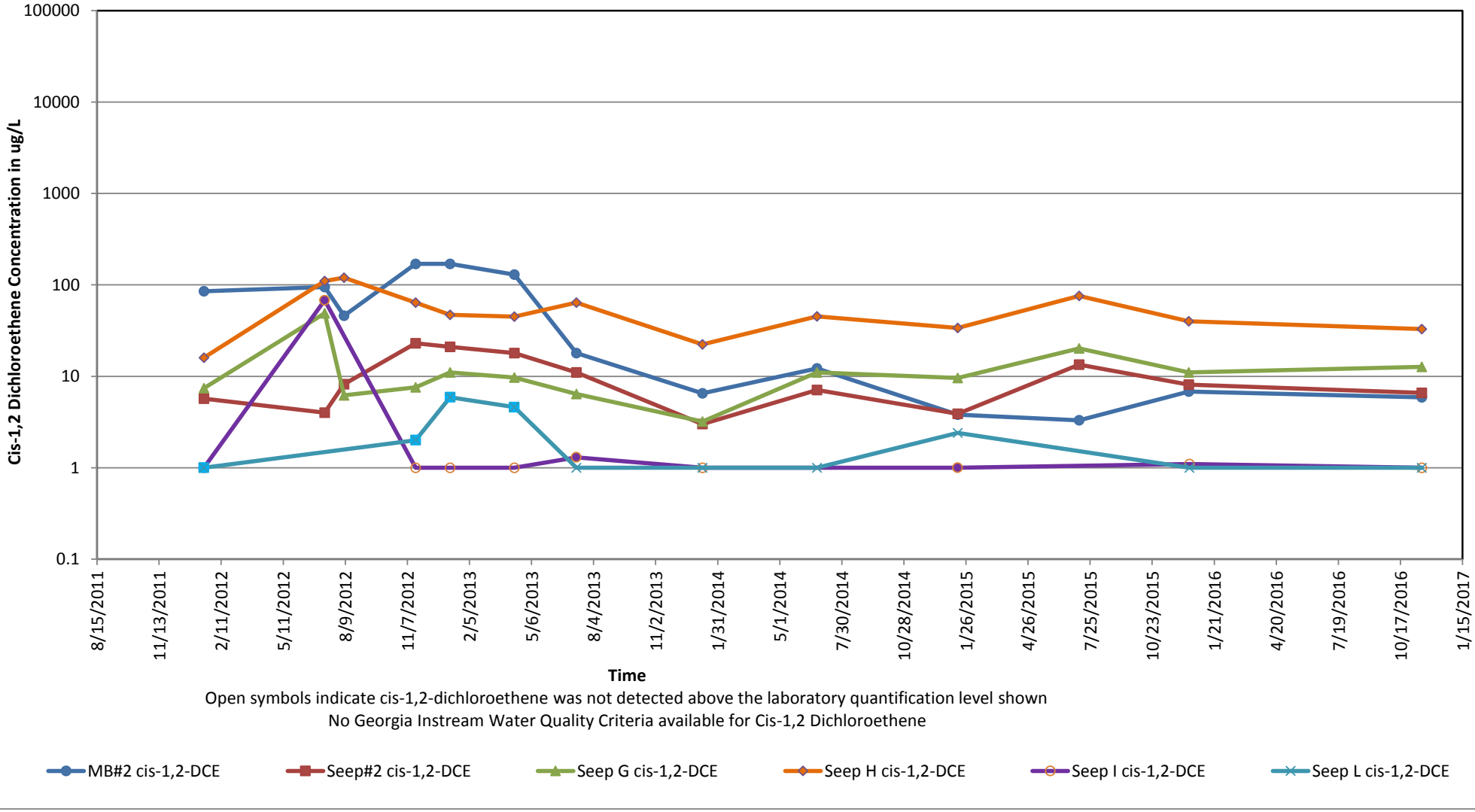
SCALE	AS SHOWN
CONTRACT	6122–09–0322
DWG. NO.	
REV	
PAGE NO	

Figure 2: Time Trend of TCE in Seeps (2012-2016)



Open symbols indicate TCE was not detected above the laboratory quantification level shown

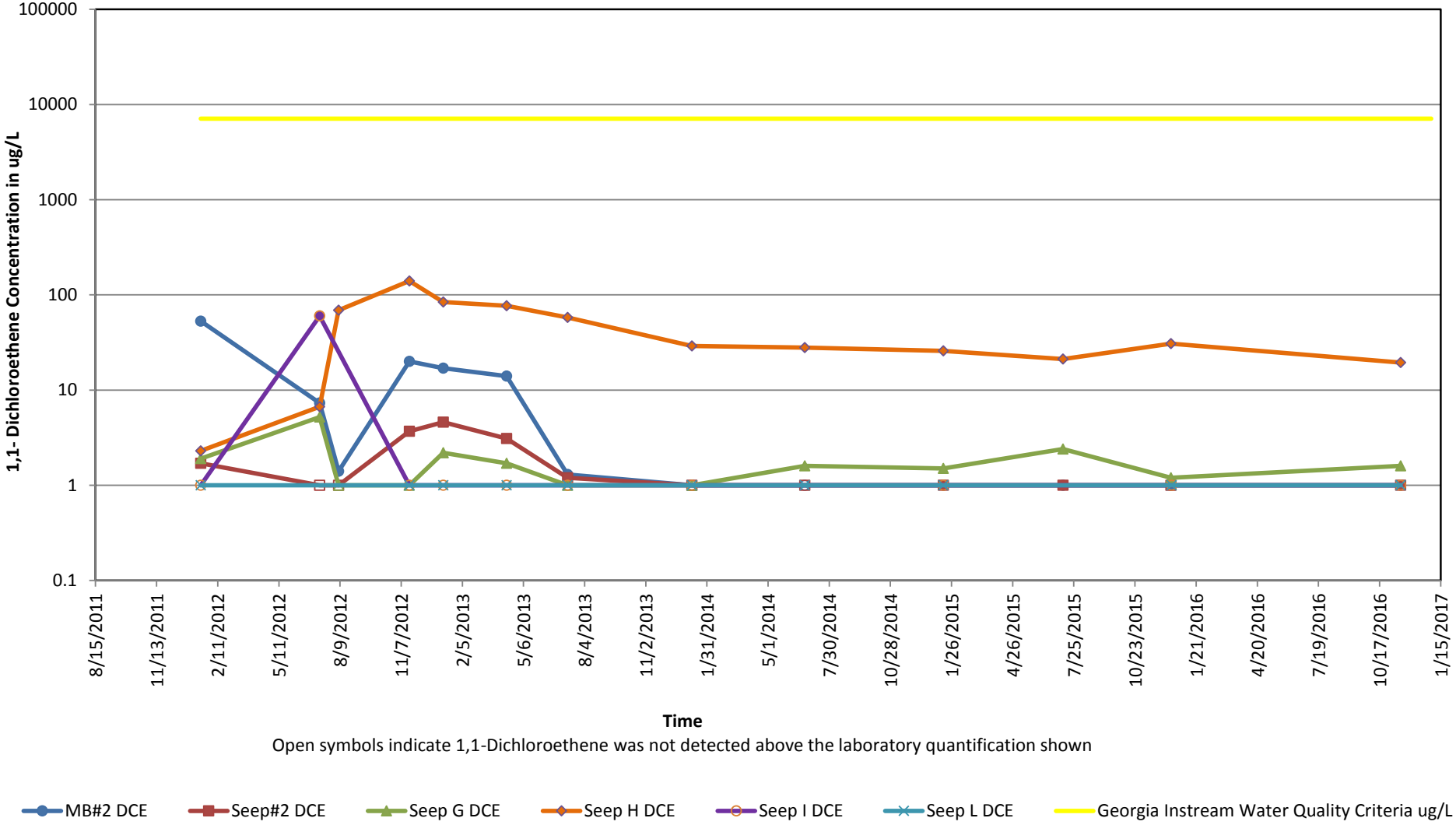
Figure 3: Time Trend of Cis-1,2-Dichloroethene in Seeps (2012-2016)



Open symbols indicate cis-1,2-dichloroethene was not detected above the laboratory quantification level shown

No Georgia Instream Water Quality Criteria available for Cis-1,2 Dichloroethene

Figure 4: Time Trend of 1,1-Dichloroethene in Seeps (2012-2016)



Open symbols indicate 1,1-Dichloroethene was not detected above the laboratory quantification shown

Figure 5: Time Trend of 1,1-Dichloroethane in Seeps (2012-2016)

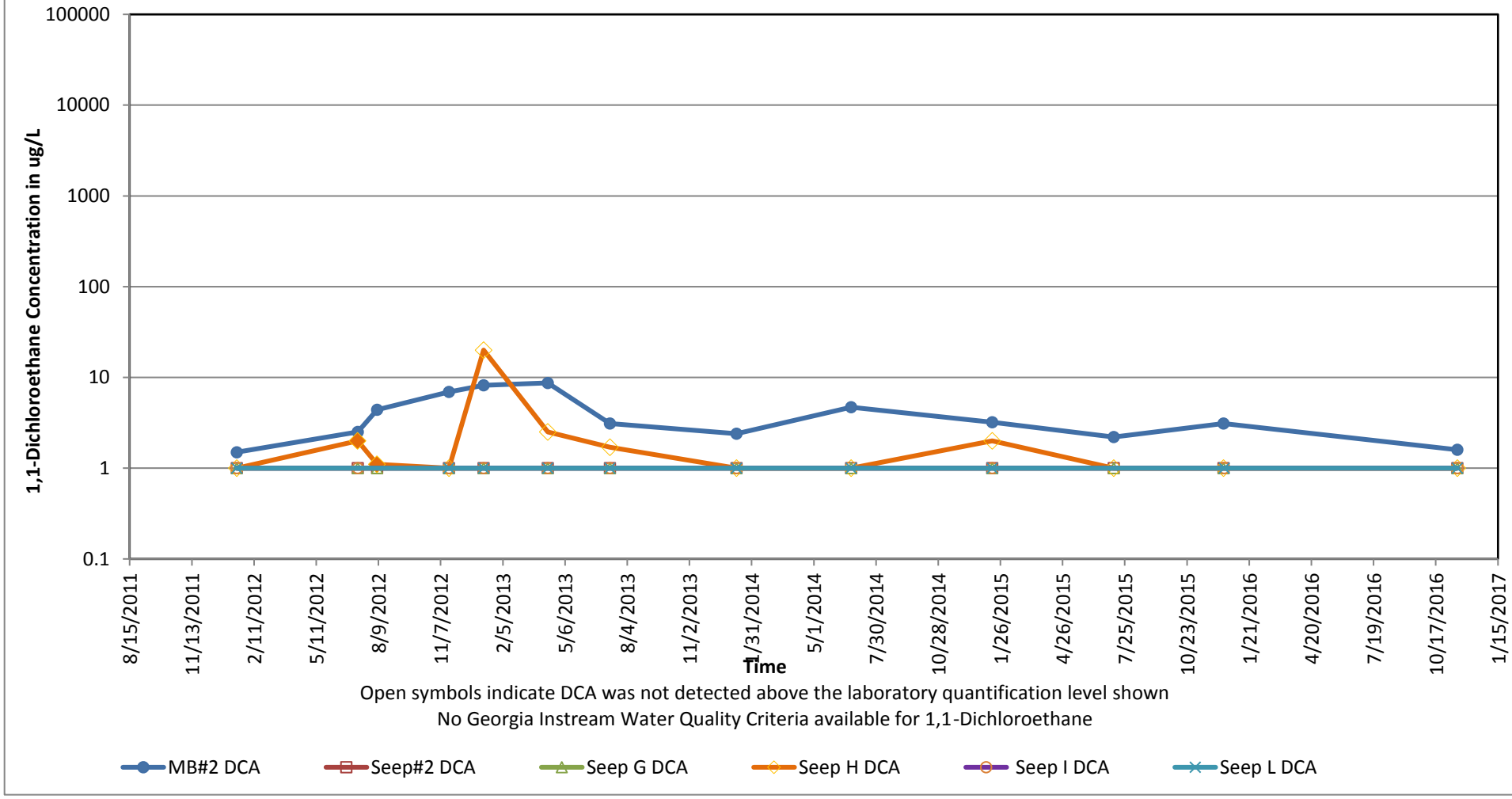
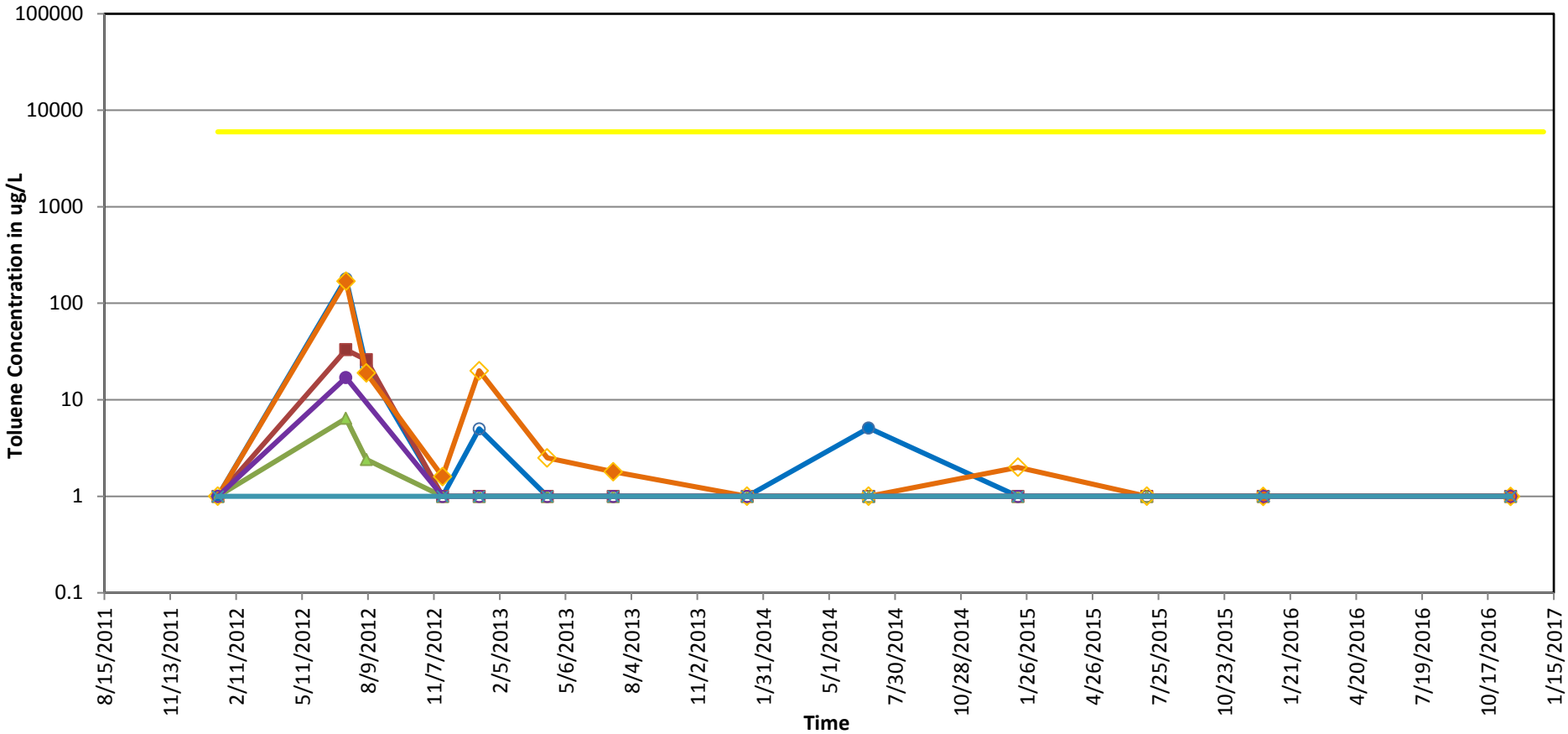


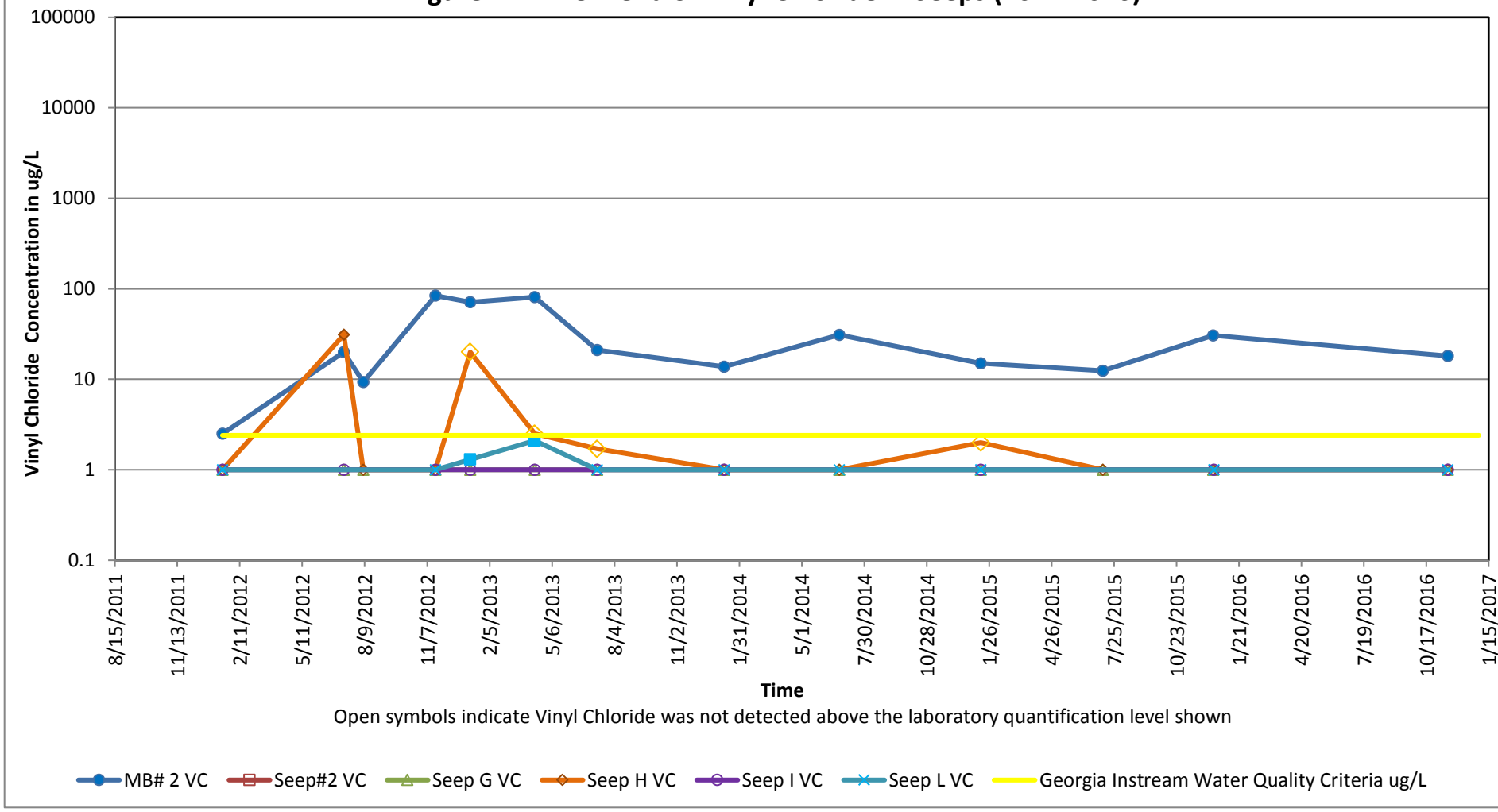
Figure 6: Time Trend of Toluene in Seeps (2012-2016)



Open symbols indicate Toluene was not detected above the laboratory quantification level shown

MB#2 Toluene
Seep#2 Toluene
Seep G Toluene
Seep H Toluene
Seep I Toluene
Seep L Toluene
Georgia Instream Water Quality Criteria ug/L

Figure 7: Time Trend of Vinyl Chloride in Seeps (2012-2016)



Open symbols indicate Vinyl Chloride was not detected above the laboratory quantification level shown

APPENDIX A

LABORATORY REPORTS AND FIELD SAMPLING FORMS FOR NOVEMBER 2016 SEEP AND AND SURFACE WATER SAMPLING EVENT

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 23, 2016

Rhonda Quinn
Amec Foster Wheeler
1075 Big Shanty Rd
Suite 100
Kennesaw, GA 30144

RE: Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Dear Rhonda Quinn:
Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Greg Wrenn, Amec Foster Wheeler

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92320241001	**MASON BRANCH #2**	Water	11/17/16 09:30	11/18/16 09:45
92320241002	**Seep H**	Water	11/17/16 09:38	11/18/16 09:45
92320241003	**Seep G**	Water	11/17/16 09:50	11/18/16 09:45
92320241004	**Seep #2**	Water	11/17/16 10:00	11/18/16 09:45
92320241005	**Seep I**	Water	11/17/16 10:10	11/18/16 09:45
92320241006	**Seep L**	Water	11/17/16 10:20	11/18/16 09:45
92320241007	**MB#16**	Water	11/17/16 10:30	11/18/16 09:45
92320241008	**MB#5**	Water	11/17/16 10:50	11/18/16 09:45
92320241009	**MB#3**	Water	11/17/16 11:05	11/18/16 09:45
92320241010	**MB#15**	Water	11/17/16 11:15	11/18/16 09:45
92320241011	**TRIP BLANK**	Water	11/17/16 00:00	11/18/16 09:45

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92320241001	**MASON BRANCH #2**	EPA 8260	CAH	60	PASI-C
92320241002	**Seep H**	EPA 8260	CAH	60	PASI-C
92320241003	**Seep G**	EPA 8260	CAH	60	PASI-C
92320241004	**Seep #2**	EPA 8260	CAH	60	PASI-C
92320241005	**Seep I**	EPA 8260	CAH	60	PASI-C
92320241006	**Seep L**	EPA 8260	CAH	60	PASI-C
92320241007	**MB#16**	EPA 8260	CAH	60	PASI-C
92320241008	**MB#5**	EPA 8260	CAH	60	PASI-C
92320241009	**MB#3**	EPA 8260	CAH	60	PASI-C
92320241010	**MB#15**	EPA 8260	CAH	60	PASI-C
92320241011	**TRIP BLANK**	EPA 8260	CAH	60	PASI-C

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92320241001	**MASON BRANCH #2**					
EPA 8260	1,1-Dichloroethane	1.6	ug/L	1.0	11/19/16 14:07	
EPA 8260	cis-1,2-Dichloroethene	5.9	ug/L	1.0	11/19/16 14:07	
EPA 8260	Vinyl chloride	18.1	ug/L	1.0	11/19/16 14:07	
92320241002	**Seep H**					
EPA 8260	Chloroform	1.3	ug/L	1.0	11/22/16 17:19	
EPA 8260	1,1-Dichloroethene	19.4	ug/L	1.0	11/22/16 17:19	
EPA 8260	cis-1,2-Dichloroethene	32.9	ug/L	1.0	11/22/16 17:19	
EPA 8260	1,1,1-Trichloroethane	1.2	ug/L	1.0	11/22/16 17:19	
EPA 8260	Trichloroethene	169	ug/L	1.0	11/22/16 17:19	
92320241003	**Seep G**					
EPA 8260	1,1-Dichloroethene	1.6	ug/L	1.0	11/19/16 14:24	
EPA 8260	cis-1,2-Dichloroethene	12.7	ug/L	1.0	11/19/16 14:24	
EPA 8260	p-Isopropyltoluene	1.4	ug/L	1.0	11/19/16 14:24	
EPA 8260	Trichloroethene	2.0	ug/L	1.0	11/19/16 14:24	
92320241004	**Seep #2**					
EPA 8260	cis-1,2-Dichloroethene	6.6	ug/L	1.0	11/19/16 14:41	
EPA 8260	Trichloroethene	3.2	ug/L	1.0	11/19/16 14:41	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Amec Foster Wheeler, Georgia
Date: November 23, 2016

General Information:
11 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 337654

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92320151055

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 1872899)
  - Dichlorodifluoromethane
  - Trichlorofluoromethane

QC Batch: 337862

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92320241010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1873892)
  - 1,4-Dioxane (p-Dioxane)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Amec Foster Wheeler, Georgia
Date: November 23, 2016

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: MASON BRANCH #2 **Lab ID: 92320241001** Collected: 11/17/16 09:30 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/19/16 14:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/16 14:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/16 14:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/16 14:07	75-27-4	
Bromomethane	ND	ug/L	2.0	1		11/19/16 14:07	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	1		11/19/16 14:07	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/19/16 14:07	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/19/16 14:07	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/16 14:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/16 14:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/16 14:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/19/16 14:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/16 14:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 14:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 14:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/16 14:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/16 14:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/16 14:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/16 14:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/16 14:07	75-71-8	
1,1-Dichloroethane	**1.6**	ug/L	1.0	1		11/19/16 14:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/16 14:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/16 14:07	75-35-4	
cis-1,2-Dichloroethene	**5.9**	ug/L	1.0	1		11/19/16 14:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 14:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 14:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/16 14:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 14:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/16 14:07	563-58-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		11/19/16 14:07	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/19/16 14:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/19/16 14:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/19/16 14:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/16 14:07	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		11/19/16 14:07	75-09-2	
Naphthalene	ND	ug/L	1.0	1		11/19/16 14:07	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/19/16 14:07	103-65-1	
Styrene	ND	ug/L	1.0	1		11/19/16 14:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 14:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 14:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/16 14:07	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/16 14:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:07	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: MASON BRANCH #2 **Lab ID: 92320241001** Collected: 11/17/16 09:30 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/16 14:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/16 14:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/16 14:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/16 14:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/16 14:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 14:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 14:07	108-67-8	
Vinyl chloride	**18.1**	ug/L	1.0	1		11/19/16 14:07	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/19/16 14:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/16 14:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		11/19/16 14:07	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		11/19/16 14:07	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		11/19/16 14:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: Seep H **Lab ID: 92320241002** Collected: 11/17/16 09:38 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/22/16 17:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/22/16 17:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/22/16 17:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/22/16 17:19	75-27-4	
Bromomethane	ND	ug/L	2.0	1		11/22/16 17:19	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	1		11/22/16 17:19	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/22/16 17:19	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/22/16 17:19	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		11/22/16 17:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/22/16 17:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/22/16 17:19	75-00-3	
Chloroform	**1.3**	ug/L	1.0	1		11/22/16 17:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/22/16 17:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/22/16 17:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/22/16 17:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/22/16 17:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/22/16 17:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/22/16 17:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/22/16 17:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/22/16 17:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/22/16 17:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/22/16 17:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/22/16 17:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/22/16 17:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/22/16 17:19	107-06-2	
1,1-Dichloroethene	**19.4**	ug/L	1.0	1		11/22/16 17:19	75-35-4	
cis-1,2-Dichloroethene	**32.9**	ug/L	1.0	1		11/22/16 17:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/22/16 17:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/22/16 17:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/22/16 17:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/22/16 17:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/22/16 17:19	563-58-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		11/22/16 17:19	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/22/16 17:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/22/16 17:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/22/16 17:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/22/16 17:19	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		11/22/16 17:19	75-09-2	
Naphthalene	ND	ug/L	1.0	1		11/22/16 17:19	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/22/16 17:19	103-65-1	
Styrene	ND	ug/L	1.0	1		11/22/16 17:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/22/16 17:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/22/16 17:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/22/16 17:19	127-18-4	
Toluene	ND	ug/L	1.0	1		11/22/16 17:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/22/16 17:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/22/16 17:19	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: Seep H **Lab ID: 92320241002** Collected: 11/17/16 09:38 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	**1.2**	ug/L	1.0	1		11/22/16 17:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/22/16 17:19	79-00-5	
Trichloroethene	**169**	ug/L	1.0	1		11/22/16 17:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/22/16 17:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/22/16 17:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/22/16 17:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/22/16 17:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/22/16 17:19	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/22/16 17:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/22/16 17:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		11/22/16 17:19	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		11/22/16 17:19	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		11/22/16 17:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: Seep G **Lab ID: 92320241003** Collected: 11/17/16 09:50 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/19/16 14:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/16 14:24	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/16 14:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/16 14:24	75-27-4	
Bromomethane	ND	ug/L	2.0	1		11/19/16 14:24	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	1		11/19/16 14:24	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/19/16 14:24	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/19/16 14:24	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/16 14:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/16 14:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/16 14:24	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/19/16 14:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/16 14:24	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 14:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 14:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/16 14:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/16 14:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/16 14:24	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/16 14:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/16 14:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/16 14:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/16 14:24	107-06-2	
1,1-Dichloroethene	**1.6**	ug/L	1.0	1		11/19/16 14:24	75-35-4	
cis-1,2-Dichloroethene	**12.7**	ug/L	1.0	1		11/19/16 14:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 14:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 14:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/16 14:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 14:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/16 14:24	563-58-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		11/19/16 14:24	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/19/16 14:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/19/16 14:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/19/16 14:24	98-82-8	
p-Isopropyltoluene	**1.4**	ug/L	1.0	1		11/19/16 14:24	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		11/19/16 14:24	75-09-2	
Naphthalene	ND	ug/L	1.0	1		11/19/16 14:24	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/19/16 14:24	103-65-1	
Styrene	ND	ug/L	1.0	1		11/19/16 14:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 14:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 14:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/16 14:24	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/16 14:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:24	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: Seep G **Lab ID: 92320241003** Collected: 11/17/16 09:50 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/16 14:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/16 14:24	79-00-5	
Trichloroethene	**2.0**	ug/L	1.0	1		11/19/16 14:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/16 14:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/16 14:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 14:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 14:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/19/16 14:24	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/19/16 14:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/16 14:24	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/19/16 14:24	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		11/19/16 14:24	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		11/19/16 14:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: Seep #2 **Lab ID: 92320241004** Collected: 11/17/16 10:00 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/19/16 14:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/16 14:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/16 14:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/16 14:41	75-27-4	
Bromomethane	ND	ug/L	2.0	1		11/19/16 14:41	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	1		11/19/16 14:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/19/16 14:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/19/16 14:41	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/16 14:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/16 14:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/16 14:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/19/16 14:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/16 14:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 14:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 14:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/16 14:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/16 14:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/16 14:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/16 14:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/16 14:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/16 14:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/16 14:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/16 14:41	75-35-4	
cis-1,2-Dichloroethene	**6.6**	ug/L	1.0	1		11/19/16 14:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 14:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 14:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/16 14:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 14:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/16 14:41	563-58-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		11/19/16 14:41	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/19/16 14:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/19/16 14:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/19/16 14:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/16 14:41	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		11/19/16 14:41	75-09-2	
Naphthalene	ND	ug/L	1.0	1		11/19/16 14:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/19/16 14:41	103-65-1	
Styrene	ND	ug/L	1.0	1		11/19/16 14:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 14:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 14:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/16 14:41	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/16 14:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:41	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: Seep #2 **Lab ID: 92320241004** Collected: 11/17/16 10:00 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/16 14:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/16 14:41	79-00-5	
Trichloroethene	**3.2**	ug/L	1.0	1		11/19/16 14:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/16 14:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/16 14:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 14:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 14:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/19/16 14:41	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/19/16 14:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/16 14:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		11/19/16 14:41	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		11/19/16 14:41	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		11/19/16 14:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: Seep I **Lab ID: 92320241005** Collected: 11/17/16 10:10 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/19/16 14:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/16 14:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/16 14:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/16 14:58	75-27-4	
Bromomethane	ND	ug/L	2.0	1		11/19/16 14:58	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	1		11/19/16 14:58	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/19/16 14:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/19/16 14:58	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/16 14:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/16 14:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/16 14:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/19/16 14:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/16 14:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 14:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 14:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/16 14:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/16 14:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/16 14:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/16 14:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/16 14:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/16 14:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/16 14:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/16 14:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 14:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 14:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 14:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/16 14:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 14:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/16 14:58	563-58-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		11/19/16 14:58	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/19/16 14:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/19/16 14:58	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/19/16 14:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/16 14:58	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		11/19/16 14:58	75-09-2	
Naphthalene	ND	ug/L	1.0	1		11/19/16 14:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/19/16 14:58	103-65-1	
Styrene	ND	ug/L	1.0	1		11/19/16 14:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 14:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 14:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/16 14:58	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/16 14:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 14:58	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: Seep I **Lab ID: 92320241005** Collected: 11/17/16 10:10 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/16 14:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/16 14:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/16 14:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/16 14:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/16 14:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 14:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 14:58	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/19/16 14:58	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/19/16 14:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/16 14:58	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		11/19/16 14:58	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		11/19/16 14:58	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		11/19/16 14:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: Seep L **Lab ID: 92320241006** Collected: 11/17/16 10:20 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/19/16 15:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/16 15:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/16 15:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/16 15:15	75-27-4	
Bromomethane	ND	ug/L	2.0	1		11/19/16 15:15	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	1		11/19/16 15:15	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/19/16 15:15	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/19/16 15:15	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/16 15:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/16 15:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/16 15:15	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/19/16 15:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/16 15:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 15:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 15:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/16 15:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/16 15:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/16 15:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/16 15:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/16 15:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/16 15:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/16 15:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/16 15:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 15:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 15:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 15:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/16 15:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 15:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/16 15:15	563-58-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		11/19/16 15:15	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/19/16 15:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/19/16 15:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/19/16 15:15	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/16 15:15	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		11/19/16 15:15	75-09-2	
Naphthalene	ND	ug/L	1.0	1		11/19/16 15:15	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/19/16 15:15	103-65-1	
Styrene	ND	ug/L	1.0	1		11/19/16 15:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 15:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 15:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/16 15:15	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/16 15:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:15	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: Seep L **Lab ID: 92320241006** Collected: 11/17/16 10:20 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/16 15:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/16 15:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/16 15:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/16 15:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/16 15:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 15:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 15:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/19/16 15:15	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/19/16 15:15	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/16 15:15	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		11/19/16 15:15	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		11/19/16 15:15	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		11/19/16 15:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: MB#16 **Lab ID: 92320241007** Collected: 11/17/16 10:30 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/19/16 15:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/16 15:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/16 15:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/16 15:32	75-27-4	
Bromomethane	ND	ug/L	2.0	1		11/19/16 15:32	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	1		11/19/16 15:32	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/19/16 15:32	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/19/16 15:32	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/16 15:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/16 15:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/16 15:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/19/16 15:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/16 15:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 15:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 15:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/16 15:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/16 15:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/16 15:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/16 15:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/16 15:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/16 15:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/16 15:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/16 15:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 15:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 15:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 15:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/16 15:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 15:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/16 15:32	563-58-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		11/19/16 15:32	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/19/16 15:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/19/16 15:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/19/16 15:32	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/16 15:32	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		11/19/16 15:32	75-09-2	
Naphthalene	ND	ug/L	1.0	1		11/19/16 15:32	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/19/16 15:32	103-65-1	
Styrene	ND	ug/L	1.0	1		11/19/16 15:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 15:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 15:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/16 15:32	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/16 15:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:32	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: MB#16 **Lab ID: 92320241007** Collected: 11/17/16 10:30 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/16 15:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/16 15:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/16 15:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/16 15:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/16 15:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 15:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 15:32	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/19/16 15:32	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/19/16 15:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/16 15:32	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/19/16 15:32	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		11/19/16 15:32	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		11/19/16 15:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: MB#5 **Lab ID: 92320241008** Collected: 11/17/16 10:50 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/19/16 15:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/16 15:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/16 15:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/16 15:50	75-27-4	
Bromomethane	ND	ug/L	2.0	1		11/19/16 15:50	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	1		11/19/16 15:50	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/19/16 15:50	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/19/16 15:50	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/16 15:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/16 15:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/16 15:50	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/19/16 15:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/16 15:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 15:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 15:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/16 15:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/16 15:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/16 15:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/16 15:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/16 15:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/16 15:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/16 15:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/16 15:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 15:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 15:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 15:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/16 15:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 15:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/16 15:50	563-58-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		11/19/16 15:50	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/19/16 15:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/19/16 15:50	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/19/16 15:50	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/16 15:50	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		11/19/16 15:50	75-09-2	
Naphthalene	ND	ug/L	1.0	1		11/19/16 15:50	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/19/16 15:50	103-65-1	
Styrene	ND	ug/L	1.0	1		11/19/16 15:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 15:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 15:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/16 15:50	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/16 15:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 15:50	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: MB#5 **Lab ID: 92320241008** Collected: 11/17/16 10:50 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/16 15:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/16 15:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/16 15:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/16 15:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/16 15:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 15:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 15:50	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/19/16 15:50	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/19/16 15:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/16 15:50	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		11/19/16 15:50	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		11/19/16 15:50	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		11/19/16 15:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: MB#3 **Lab ID: 92320241009** Collected: 11/17/16 11:05 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/19/16 16:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/16 16:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/16 16:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/16 16:07	75-27-4	
Bromomethane	ND	ug/L	2.0	1		11/19/16 16:07	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	1		11/19/16 16:07	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/19/16 16:07	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/19/16 16:07	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/16 16:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/16 16:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/16 16:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/19/16 16:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/16 16:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 16:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/16 16:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/16 16:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/16 16:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/16 16:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/16 16:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 16:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 16:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/16 16:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/16 16:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/16 16:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/16 16:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/16 16:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 16:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/16 16:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 16:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/16 16:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/16 16:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/16 16:07	563-58-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		11/19/16 16:07	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/19/16 16:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/19/16 16:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/19/16 16:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/16 16:07	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		11/19/16 16:07	75-09-2	
Naphthalene	ND	ug/L	1.0	1		11/19/16 16:07	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/19/16 16:07	103-65-1	
Styrene	ND	ug/L	1.0	1		11/19/16 16:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 16:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/16 16:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/19/16 16:07	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/16 16:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 16:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/16 16:07	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: MB#3 **Lab ID: 92320241009** Collected: 11/17/16 11:05 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/16 16:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/16 16:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/16 16:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/16 16:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/16 16:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 16:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/19/16 16:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/19/16 16:07	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/19/16 16:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/16 16:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		11/19/16 16:07	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		11/19/16 16:07	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		11/19/16 16:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: MB#15 **Lab ID: 92320241010** Collected: 11/17/16 11:15 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/22/16 17:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/22/16 17:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/22/16 17:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/22/16 17:02	75-27-4	
Bromomethane	ND	ug/L	2.0	1		11/22/16 17:02	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	1		11/22/16 17:02	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/22/16 17:02	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/22/16 17:02	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		11/22/16 17:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/22/16 17:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/22/16 17:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/22/16 17:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/22/16 17:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/22/16 17:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/22/16 17:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/22/16 17:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/22/16 17:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/22/16 17:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/22/16 17:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/22/16 17:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/22/16 17:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/22/16 17:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/22/16 17:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/22/16 17:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/22/16 17:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/22/16 17:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/22/16 17:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/22/16 17:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/22/16 17:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/22/16 17:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/22/16 17:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/22/16 17:02	563-58-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		11/22/16 17:02	123-91-1	M1
Ethylbenzene	ND	ug/L	1.0	1		11/22/16 17:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/22/16 17:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/22/16 17:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/22/16 17:02	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		11/22/16 17:02	75-09-2	
Naphthalene	ND	ug/L	1.0	1		11/22/16 17:02	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/22/16 17:02	103-65-1	
Styrene	ND	ug/L	1.0	1		11/22/16 17:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/22/16 17:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/22/16 17:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/22/16 17:02	127-18-4	
Toluene	ND	ug/L	1.0	1		11/22/16 17:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/22/16 17:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/22/16 17:02	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: MB#15 **Lab ID: 92320241010** Collected: 11/17/16 11:15 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/22/16 17:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/22/16 17:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/22/16 17:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/22/16 17:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/22/16 17:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/22/16 17:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/22/16 17:02	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/22/16 17:02	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/22/16 17:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/22/16 17:02	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		11/22/16 17:02	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		11/22/16 17:02	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		11/22/16 17:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: TRIP BLANK **Lab ID: 92320241011** Collected: 11/17/16 00:00 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		11/22/16 16:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/22/16 16:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/22/16 16:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/22/16 16:44	75-27-4	
Bromomethane	ND	ug/L	2.0	1		11/22/16 16:44	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	1		11/22/16 16:44	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/22/16 16:44	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/22/16 16:44	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		11/22/16 16:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/22/16 16:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/22/16 16:44	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/22/16 16:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/22/16 16:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/22/16 16:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/22/16 16:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/22/16 16:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/22/16 16:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/22/16 16:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/22/16 16:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/22/16 16:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/22/16 16:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/22/16 16:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/22/16 16:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/22/16 16:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/22/16 16:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/22/16 16:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/22/16 16:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/22/16 16:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/22/16 16:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/22/16 16:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/22/16 16:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/22/16 16:44	563-58-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		11/22/16 16:44	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/22/16 16:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/22/16 16:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/22/16 16:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/22/16 16:44	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		11/22/16 16:44	75-09-2	
Naphthalene	ND	ug/L	1.0	1		11/22/16 16:44	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/22/16 16:44	103-65-1	
Styrene	ND	ug/L	1.0	1		11/22/16 16:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/22/16 16:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/22/16 16:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/22/16 16:44	127-18-4	
Toluene	ND	ug/L	1.0	1		11/22/16 16:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/22/16 16:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/22/16 16:44	120-82-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Sample: TRIP BLANK **Lab ID: 92320241011** Collected: 11/17/16 00:00 Received: 11/18/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/22/16 16:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/22/16 16:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/22/16 16:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/22/16 16:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/22/16 16:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/22/16 16:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/22/16 16:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/22/16 16:44	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		11/22/16 16:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/22/16 16:44	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		11/22/16 16:44	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		11/22/16 16:44	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		11/22/16 16:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

QC Batch: 337654 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92320241001, 92320241003, 92320241004, 92320241005, 92320241006, 92320241007, 92320241008, 92320241009

METHOD BLANK: 1872896 Matrix: Water
Associated Lab Samples: 92320241001, 92320241003, 92320241004, 92320241005, 92320241006, 92320241007, 92320241008, 92320241009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/19/16 07:33	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/19/16 07:33	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/19/16 07:33	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/19/16 07:33	
1,1-Dichloroethane	ug/L	ND	1.0	11/19/16 07:33	
1,1-Dichloroethene	ug/L	ND	1.0	11/19/16 07:33	
1,1-Dichloropropene	ug/L	ND	1.0	11/19/16 07:33	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/19/16 07:33	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/19/16 07:33	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/19/16 07:33	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/19/16 07:33	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	11/19/16 07:33	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/19/16 07:33	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/19/16 07:33	
1,2-Dichloroethane	ug/L	ND	1.0	11/19/16 07:33	
1,2-Dichloropropane	ug/L	ND	1.0	11/19/16 07:33	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/19/16 07:33	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/19/16 07:33	
1,3-Dichloropropane	ug/L	ND	1.0	11/19/16 07:33	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/19/16 07:33	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	11/19/16 07:33	
2,2-Dichloropropane	ug/L	ND	1.0	11/19/16 07:33	
2-Chlorotoluene	ug/L	ND	1.0	11/19/16 07:33	
4-Chlorotoluene	ug/L	ND	1.0	11/19/16 07:33	
Benzene	ug/L	ND	1.0	11/19/16 07:33	
Bromobenzene	ug/L	ND	1.0	11/19/16 07:33	
Bromochloromethane	ug/L	ND	1.0	11/19/16 07:33	
Bromodichloromethane	ug/L	ND	1.0	11/19/16 07:33	
Bromomethane	ug/L	ND	2.0	11/19/16 07:33	
Carbon tetrachloride	ug/L	ND	1.0	11/19/16 07:33	
Chlorobenzene	ug/L	ND	1.0	11/19/16 07:33	
Chloroethane	ug/L	ND	1.0	11/19/16 07:33	
Chloroform	ug/L	ND	1.0	11/19/16 07:33	
Chloromethane	ug/L	ND	1.0	11/19/16 07:33	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/19/16 07:33	
Dibromochloromethane	ug/L	ND	1.0	11/19/16 07:33	
Dibromomethane	ug/L	ND	1.0	11/19/16 07:33	
Dichlorodifluoromethane	ug/L	ND	1.0	11/19/16 07:33	
Ethylbenzene	ug/L	ND	1.0	11/19/16 07:33	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/19/16 07:33	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

METHOD BLANK: 1872896 Matrix: Water
Associated Lab Samples: 92320241001, 92320241003, 92320241004, 92320241005, 92320241006, 92320241007, 92320241008, 92320241009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/19/16 07:33	
m&p-Xylene	ug/L	ND	2.0	11/19/16 07:33	
Methylene Chloride	ug/L	ND	2.0	11/19/16 07:33	
n-Butylbenzene	ug/L	ND	1.0	11/19/16 07:33	
n-Propylbenzene	ug/L	ND	1.0	11/19/16 07:33	
Naphthalene	ug/L	ND	1.0	11/19/16 07:33	
o-Xylene	ug/L	ND	1.0	11/19/16 07:33	
p-Isopropyltoluene	ug/L	ND	1.0	11/19/16 07:33	
sec-Butylbenzene	ug/L	ND	1.0	11/19/16 07:33	
Styrene	ug/L	ND	1.0	11/19/16 07:33	
tert-Butylbenzene	ug/L	ND	1.0	11/19/16 07:33	
Tetrachloroethene	ug/L	ND	1.0	11/19/16 07:33	
Toluene	ug/L	ND	1.0	11/19/16 07:33	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/19/16 07:33	
Trichloroethene	ug/L	ND	1.0	11/19/16 07:33	
Trichlorofluoromethane	ug/L	ND	1.0	11/19/16 07:33	
Vinyl chloride	ug/L	ND	1.0	11/19/16 07:33	
1,2-Dichloroethane-d4 (S)	%	104	70-130	11/19/16 07:33	
4-Bromofluorobenzene (S)	%	97	70-130	11/19/16 07:33	
Toluene-d8 (S)	%	100	70-130	11/19/16 07:33	

LABORATORY CONTROL SAMPLE: 1872897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.0	94	70-130	
1,1,1-Trichloroethane	ug/L	50	46.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	98	70-130	
1,1,2-Trichloroethane	ug/L	50	48.9	98	70-130	
1,1-Dichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethene	ug/L	50	49.5	99	70-132	
1,1-Dichloropropene	ug/L	50	45.9	92	70-130	
1,2,3-Trichlorobenzene	ug/L	50	48.4	97	70-135	
1,2,3-Trichloropropane	ug/L	50	47.8	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.4	97	70-134	
1,2,4-Trimethylbenzene	ug/L	50	48.5	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.4	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	70-130	
1,2-Dichlorobenzene	ug/L	50	49.4	99	70-130	
1,2-Dichloroethane	ug/L	50	46.6	93	70-130	
1,2-Dichloropropane	ug/L	50	45.8	92	70-130	
1,3,5-Trimethylbenzene	ug/L	50	47.6	95	70-130	
1,3-Dichlorobenzene	ug/L	50	47.6	95	70-130	
1,3-Dichloropropane	ug/L	50	47.4	95	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

LABORATORY CONTROL SAMPLE: 1872897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	47.0	94	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	1090	109	71-125	
2,2-Dichloropropane	ug/L	50	43.6	87	58-145	
2-Chlorotoluene	ug/L	50	47.3	95	70-130	
4-Chlorotoluene	ug/L	50	47.5	95	70-130	
Benzene	ug/L	50	49.7	99	70-130	
Bromobenzene	ug/L	50	47.9	96	70-130	
Bromochloromethane	ug/L	50	49.2	98	70-130	
Bromodichloromethane	ug/L	50	49.5	99	70-130	
Bromomethane	ug/L	50	45.7	91	54-130	
Carbon tetrachloride	ug/L	50	48.1	96	70-132	
Chlorobenzene	ug/L	50	46.6	93	70-130	
Chloroethane	ug/L	50	49.8	100	64-134	
Chloroform	ug/L	50	47.6	95	70-130	
Chloromethane	ug/L	50	50.1	100	64-130	
cis-1,2-Dichloroethene	ug/L	50	46.4	93	70-131	
Dibromochloromethane	ug/L	50	49.3	99	70-130	
Dibromomethane	ug/L	50	48.6	97	70-131	
Dichlorodifluoromethane	ug/L	50	52.2	104	56-130	
Ethylbenzene	ug/L	50	47.5	95	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.5	95	70-130	
Isopropylbenzene (Cumene)	ug/L	50	47.6	95	70-130	
m&p-Xylene	ug/L	100	95.3	95	70-130	
Methylene Chloride	ug/L	50	48.1	96	63-130	
n-Butylbenzene	ug/L	50	47.7	95	70-130	
n-Propylbenzene	ug/L	50	48.5	97	70-130	
Naphthalene	ug/L	50	47.1	94	70-138	
o-Xylene	ug/L	50	47.7	95	70-130	
p-Isopropyltoluene	ug/L	50	47.6	95	70-130	
sec-Butylbenzene	ug/L	50	47.7	95	70-130	
Styrene	ug/L	50	48.0	96	70-130	
tert-Butylbenzene	ug/L	50	39.7	79	70-130	
Tetrachloroethene	ug/L	50	41.9	84	70-130	
Toluene	ug/L	50	47.8	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.5	95	70-130	
Trichloroethene	ug/L	50	47.6	95	70-130	
Trichlorofluoromethane	ug/L	50	52.2	104	62-133	
Vinyl chloride	ug/L	50	44.4	89	50-150	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1872898 1872899

Parameter	Units	92320151055 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.8	21.3	104	106	70-130	2	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	22.2	109	111	70-130	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.6	21.0	103	105	70-130	2	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.9	21.1	104	106	70-130	1	30	
1,1-Dichloroethane	ug/L	ND	20	20	21.3	21.5	106	107	70-130	1	30	
1,1-Dichloroethene	ug/L	ND	20	20	24.4	24.8	121	123	70-166	2	30	
1,1-Dichloropropene	ug/L	ND	20	20	22.2	22.4	111	112	70-130	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.1	21.7	105	108	70-130	3	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.0	21.0	105	105	70-130	0	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.6	20.8	103	104	70-130	1	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.9	22.0	110	110	70-130	0	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.8	20.9	109	104	70-130	4	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.5	21.8	107	109	70-130	1	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.6	22.0	108	110	70-130	2	30	
1,2-Dichloroethane	ug/L	ND	20	20	20.8	21.4	104	107	70-130	3	30	
1,2-Dichloropropane	ug/L	ND	20	20	20.4	20.9	102	105	70-130	3	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.7	21.7	109	108	70-130	0	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	21.1	21.4	106	107	70-130	1	30	
1,3-Dichloropropane	ug/L	ND	20	20	20.7	20.8	103	104	70-130	1	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.0	21.0	105	105	70-130	0	30	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	400	442	471	110	118	70-130	6	30	
2,2-Dichloropropane	ug/L	ND	20	20	20.1	20.9	101	105	70-130	4	30	
2-Chlorotoluene	ug/L	ND	20	20	23.6	21.8	118	109	70-130	8	30	
4-Chlorotoluene	ug/L	ND	20	20	21.3	21.5	107	107	70-130	1	30	
Benzene	ug/L	ND	20	20	22.5	23.1	112	116	70-148	3	30	
Bromobenzene	ug/L	ND	20	20	21.5	21.5	108	107	70-130	0	30	
Bromochloromethane	ug/L	ND	20	20	22.6	22.5	113	113	70-130	0	30	
Bromodichloromethane	ug/L	ND	20	20	22.3	22.3	111	111	70-130	0	30	
Bromomethane	ug/L	ND	20	20	23.8	23.1	119	115	70-130	3	30	
Carbon tetrachloride	ug/L	ND	20	20	22.8	22.7	114	113	70-130	0	30	
Chlorobenzene	ug/L	ND	20	20	21.3	21.7	107	108	70-146	2	30	
Chloroethane	ug/L	ND	20	20	22.9	23.6	114	118	70-130	3	30	
Chloroform	ug/L	ND	20	20	21.4	21.7	107	108	70-130	1	30	
Chloromethane	ug/L	ND	20	20	24.8	24.9	124	125	70-130	1	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.7	22.0	108	110	70-130	1	30	
Dibromochloromethane	ug/L	ND	20	20	21.5	21.8	107	109	70-130	1	30	
Dibromomethane	ug/L	ND	20	20	21.2	21.6	106	108	70-130	2	30	
Dichlorodifluoromethane	ug/L	ND	20	20	25.8	26.3	129	131	70-130	2	30	M1
Ethylbenzene	ug/L	ND	20	20	22.0	22.0	110	110	70-130	0	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.4	21.6	107	108	70-130	1	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.2	22.1	111	110	70-130	0	30	
m&p-Xylene	ug/L	ND	40	40	43.8	44.2	109	110	70-130	1	30	
Methylene Chloride	ug/L	ND	20	20	20.8	21.1	104	106	70-130	2	30	
n-Butylbenzene	ug/L	ND	20	20	21.4	21.5	107	107	70-130	0	30	
n-Propylbenzene	ug/L	ND	20	20	22.3	22.4	111	112	70-130	1	30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1872898 1872899

Parameter	Units	92320151055 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	20	20	19.5	20.1	98	101	70-130	3	30	
o-Xylene	ug/L	ND	20	20	21.6	21.7	108	109	70-130	1	30	
p-Isopropyltoluene	ug/L	ND	20	20	21.5	21.8	107	109	70-130	1	30	
sec-Butylbenzene	ug/L	ND	20	20	21.7	21.9	108	110	70-130	1	30	
Styrene	ug/L	ND	20	20	21.2	21.4	106	107	70-130	1	30	
tert-Butylbenzene	ug/L	ND	20	20	18.3	18.3	92	92	70-130	0	30	
Tetrachloroethene	ug/L	ND	20	20	19.8	20.0	99	100	70-130	1	30	
Toluene	ug/L	ND	20	20	22.0	22.5	109	111	70-155	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.5	23.3	112	117	70-130	4	30	
Trichloroethene	ug/L	3.5	20	20	25.9	26.0	112	113	69-151	0	30	
Trichlorofluoromethane	ug/L	ND	20	20	25.6	26.2	128	131	70-130	2	30	M1
Vinyl chloride	ug/L	ND	20	20	22.1	22.4	111	112	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						97	99	70-130			
4-Bromofluorobenzene (S)	%						99	99	70-130			
Toluene-d8 (S)	%						98	100	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

QC Batch: 337862 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92320241002, 92320241010, 92320241011

METHOD BLANK: 1873890 Matrix: Water
Associated Lab Samples: 92320241002, 92320241010, 92320241011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/22/16 16:10	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/22/16 16:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/22/16 16:10	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/22/16 16:10	
1,1-Dichloroethane	ug/L	ND	1.0	11/22/16 16:10	
1,1-Dichloroethene	ug/L	ND	1.0	11/22/16 16:10	
1,1-Dichloropropene	ug/L	ND	1.0	11/22/16 16:10	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/22/16 16:10	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/22/16 16:10	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/22/16 16:10	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/22/16 16:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	11/22/16 16:10	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/22/16 16:10	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/22/16 16:10	
1,2-Dichloroethane	ug/L	ND	1.0	11/22/16 16:10	
1,2-Dichloropropane	ug/L	ND	1.0	11/22/16 16:10	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/22/16 16:10	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/22/16 16:10	
1,3-Dichloropropane	ug/L	ND	1.0	11/22/16 16:10	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/22/16 16:10	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	11/22/16 16:10	
2,2-Dichloropropane	ug/L	ND	1.0	11/22/16 16:10	
2-Chlorotoluene	ug/L	ND	1.0	11/22/16 16:10	
4-Chlorotoluene	ug/L	ND	1.0	11/22/16 16:10	
Benzene	ug/L	ND	1.0	11/22/16 16:10	
Bromobenzene	ug/L	ND	1.0	11/22/16 16:10	
Bromochloromethane	ug/L	ND	1.0	11/22/16 16:10	
Bromodichloromethane	ug/L	ND	1.0	11/22/16 16:10	
Bromomethane	ug/L	ND	2.0	11/22/16 16:10	
Carbon tetrachloride	ug/L	ND	1.0	11/22/16 16:10	
Chlorobenzene	ug/L	ND	1.0	11/22/16 16:10	
Chloroethane	ug/L	ND	1.0	11/22/16 16:10	
Chloroform	ug/L	ND	1.0	11/22/16 16:10	
Chloromethane	ug/L	ND	1.0	11/22/16 16:10	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/22/16 16:10	
Dibromochloromethane	ug/L	ND	1.0	11/22/16 16:10	
Dibromomethane	ug/L	ND	1.0	11/22/16 16:10	
Dichlorodifluoromethane	ug/L	ND	1.0	11/22/16 16:10	
Ethylbenzene	ug/L	ND	1.0	11/22/16 16:10	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/22/16 16:10	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/22/16 16:10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

METHOD BLANK: 1873890 Matrix: Water
Associated Lab Samples: 92320241002, 92320241010, 92320241011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	ND	2.0	11/22/16 16:10	
Methylene Chloride	ug/L	ND	2.0	11/22/16 16:10	
n-Butylbenzene	ug/L	ND	1.0	11/22/16 16:10	
n-Propylbenzene	ug/L	ND	1.0	11/22/16 16:10	
Naphthalene	ug/L	ND	1.0	11/22/16 16:10	
o-Xylene	ug/L	ND	1.0	11/22/16 16:10	
p-Isopropyltoluene	ug/L	ND	1.0	11/22/16 16:10	
sec-Butylbenzene	ug/L	ND	1.0	11/22/16 16:10	
Styrene	ug/L	ND	1.0	11/22/16 16:10	
tert-Butylbenzene	ug/L	ND	1.0	11/22/16 16:10	
Tetrachloroethene	ug/L	ND	1.0	11/22/16 16:10	
Toluene	ug/L	ND	1.0	11/22/16 16:10	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/22/16 16:10	
Trichloroethene	ug/L	ND	1.0	11/22/16 16:10	
Trichlorofluoromethane	ug/L	ND	1.0	11/22/16 16:10	
Vinyl chloride	ug/L	ND	1.0	11/22/16 16:10	
1,2-Dichloroethane-d4 (S)	%	101	70-130	11/22/16 16:10	
4-Bromofluorobenzene (S)	%	96	70-130	11/22/16 16:10	
Toluene-d8 (S)	%	101	70-130	11/22/16 16:10	

LABORATORY CONTROL SAMPLE: 1873891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.1	96	70-130	
1,1,1-Trichloroethane	ug/L	50	48.0	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.6	93	70-130	
1,1,2-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1-Dichloroethane	ug/L	50	49.9	100	70-130	
1,1-Dichloroethene	ug/L	50	52.4	105	70-132	
1,1-Dichloropropene	ug/L	50	48.7	97	70-130	
1,2,3-Trichlorobenzene	ug/L	50	49.6	99	70-135	
1,2,3-Trichloropropane	ug/L	50	45.9	92	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.0	96	70-134	
1,2,4-Trimethylbenzene	ug/L	50	49.7	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.4	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.3	97	70-130	
1,2-Dichlorobenzene	ug/L	50	48.8	98	70-130	
1,2-Dichloroethane	ug/L	50	46.1	92	70-130	
1,2-Dichloropropane	ug/L	50	48.6	97	70-130	
1,3,5-Trimethylbenzene	ug/L	50	48.9	98	70-130	
1,3-Dichlorobenzene	ug/L	50	47.8	96	70-130	
1,3-Dichloropropane	ug/L	50	46.9	94	70-130	
1,4-Dichlorobenzene	ug/L	50	47.0	94	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	899	90	71-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

LABORATORY CONTROL SAMPLE: 1873891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	49.6	99	58-145	
2-Chlorotoluene	ug/L	50	48.4	97	70-130	
4-Chlorotoluene	ug/L	50	48.1	96	70-130	
Benzene	ug/L	50	52.3	105	70-130	
Bromobenzene	ug/L	50	47.7	95	70-130	
Bromochloromethane	ug/L	50	51.1	102	70-130	
Bromodichloromethane	ug/L	50	50.9	102	70-130	
Bromomethane	ug/L	50	39.0	78	54-130	
Carbon tetrachloride	ug/L	50	50.9	102	70-132	
Chlorobenzene	ug/L	50	48.0	96	70-130	
Chloroethane	ug/L	50	50.5	101	64-134	
Chloroform	ug/L	50	48.6	97	70-130	
Chloromethane	ug/L	50	43.8	88	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	70-131	
Dibromochloromethane	ug/L	50	48.8	98	70-130	
Dibromomethane	ug/L	50	48.0	96	70-131	
Dichlorodifluoromethane	ug/L	50	49.8	100	56-130	
Ethylbenzene	ug/L	50	49.1	98	70-130	
Hexachloro-1,3-butadiene	ug/L	50	49.7	99	70-130	
Isopropylbenzene (Cumene)	ug/L	50	49.0	98	70-130	
m&p-Xylene	ug/L	100	99.2	99	70-130	
Methylene Chloride	ug/L	50	50.0	100	63-130	
n-Butylbenzene	ug/L	50	49.8	100	70-130	
n-Propylbenzene	ug/L	50	49.7	99	70-130	
Naphthalene	ug/L	50	43.9	88	70-138	
o-Xylene	ug/L	50	48.8	98	70-130	
p-Isopropyltoluene	ug/L	50	49.1	98	70-130	
sec-Butylbenzene	ug/L	50	49.0	98	70-130	
Styrene	ug/L	50	48.2	96	70-130	
tert-Butylbenzene	ug/L	50	40.7	81	70-130	
Tetrachloroethene	ug/L	50	44.1	88	70-130	
Toluene	ug/L	50	49.2	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	70-130	
Trichloroethene	ug/L	50	49.5	99	70-130	
Trichlorofluoromethane	ug/L	50	53.6	107	62-133	
Vinyl chloride	ug/L	50	46.5	93	50-150	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1873892

Parameter	Units	92320241010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.5	97	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	20.8	104	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

MATRIX SPIKE SAMPLE: 1873892

Parameter	Units	92320241010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	20	18.5	93	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.2	96	70-130	
1,1-Dichloroethane	ug/L	ND	20	21.1	106	70-130	
1,1-Dichloroethene	ug/L	ND	20	24.5	122	70-166	
1,1-Dichloropropene	ug/L	ND	20	21.9	109	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	25.6	128	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	17.4	87	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	24.1	121	70-130	
1,2,4-Trimethylbenzene	ug/L	ND	20	21.1	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.5	92	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.9	99	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.7	109	70-130	
1,2-Dichloroethane	ug/L	ND	20	18.3	91	70-130	
1,2-Dichloropropane	ug/L	ND	20	19.6	98	70-130	
1,3,5-Trimethylbenzene	ug/L	ND	20	20.8	104	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	21.0	105	70-130	
1,3-Dichloropropane	ug/L	ND	20	19.2	96	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	20.6	103	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	942	236	70-130	M1
2,2-Dichloropropane	ug/L	ND	20	22.4	112	70-130	
2-Chlorotoluene	ug/L	ND	20	20.4	102	70-130	
4-Chlorotoluene	ug/L	ND	20	20.0	100	70-130	
Benzene	ug/L	ND	20	21.7	108	70-148	
Bromobenzene	ug/L	ND	20	19.9	99	70-130	
Bromochloromethane	ug/L	ND	20	20.8	104	70-130	
Bromodichloromethane	ug/L	ND	20	19.9	100	70-130	
Bromomethane	ug/L	ND	20	17.5	87	70-130	
Carbon tetrachloride	ug/L	ND	20	22.6	113	70-130	
Chlorobenzene	ug/L	ND	20	20.2	101	70-146	
Chloroethane	ug/L	ND	20	18.1	91	70-130	
Chloroform	ug/L	ND	20	20.1	100	70-130	
Chloromethane	ug/L	ND	20	23.6	118	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	20.4	102	70-130	
Dibromochloromethane	ug/L	ND	20	20.0	100	70-130	
Dibromomethane	ug/L	ND	20	19.5	97	70-130	
Dichlorodifluoromethane	ug/L	ND	20	22.1	110	70-130	
Ethylbenzene	ug/L	ND	20	20.9	105	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	25.7	129	70-130	
Isopropylbenzene (Cumene)	ug/L	ND	20	20.8	104	70-130	
m&p-Xylene	ug/L	ND	40	41.2	103	70-130	
Methylene Chloride	ug/L	ND	20	21.6	108	70-130	
n-Butylbenzene	ug/L	ND	20	22.4	112	70-130	
n-Propylbenzene	ug/L	ND	20	21.3	107	70-130	
Naphthalene	ug/L	ND	20	22.3	111	70-130	
o-Xylene	ug/L	ND	20	20.1	100	70-130	
p-Isopropyltoluene	ug/L	ND	20	21.8	109	70-130	
sec-Butylbenzene	ug/L	ND	20	22.0	110	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

MATRIX SPIKE SAMPLE: 1873892

Parameter	Units	92320241010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Styrene	ug/L	ND	20	19.9	100	70-130	
tert-Butylbenzene	ug/L	ND	20	18.5	93	70-130	
Tetrachloroethene	ug/L	ND	20	18.5	93	70-130	
Toluene	ug/L	ND	20	20.6	103	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	22.6	113	70-130	
Trichloroethene	ug/L	ND	20	21.0	105	69-151	
Trichlorofluoromethane	ug/L	ND	20	22.3	112	70-130	
Vinyl chloride	ug/L	ND	20	18.9	95	70-130	
1,2-Dichloroethane-d4 (S)	%				94	70-130	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1873893

Parameter	Units	92320241002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	1.2	1.1	4	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	19.4	18.8	3	30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
1,4-Dioxane (p-Dioxane)	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

SAMPLE DUPLICATE: 1873893

Parameter	Units	92320241002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	1.3	1.3	1	30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	32.9	31.9	3	30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
Trichloroethene	ug/L	169	168	0	30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	103	102	2		
4-Bromofluorobenzene (S)	%	97	97	0		
Toluene-d8 (S)	%	99	99	0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TK LOUISVILLE 6122090322
Pace Project No.: 92320241

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92320241001	**MASON BRANCH #2**	EPA 8260	337654		
92320241002	**Seep H**	EPA 8260	337862		
92320241003	**Seep G**	EPA 8260	337654		
92320241004	**Seep #2**	EPA 8260	337654		
92320241005	**Seep I**	EPA 8260	337654		
92320241006	**Seep L**	EPA 8260	337654		
92320241007	**MB#16**	EPA 8260	337654		
92320241008	**MB#5**	EPA 8260	337654		
92320241009	**MB#3**	EPA 8260	337654		
92320241010	**MB#15**	EPA 8260	337862		
92320241011	**TRIP BLANK**	EPA 8260	337862		

Pace Analytical®	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: Sept. 21, 2016 Page 1 of 2
	Document No.: **F-CAR-CS-033-Rev.01**	Issuing Authority: Pace Quality Office

Laboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☑ **Raleigh** ☐ **Mech**

WO# : 92320241

92320241

Sample Condition Upon Receipt

Client Name: AMEC **Project #:**

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 11-18 KW

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other:____

Thermometer: ☐ IR Gun ID: T1603

Type of Ice: ☑ Wet ☐ Blue ☐ None ☑ Samples on ice, cooling process has begun

Correction Factor: **Cooler Temp Corrected (°C):** 5.7 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☑ Yes	☑ No	☐ N/A	9. Rec'd extra trip blank
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Sample Discrepancy: _____

Project Manager SCURF Review: JY **Date:** 11/21/16

Project Manager SRF Review: JY **Date:** 11/21/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

10/20

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

**Bottom half of box is to list number of bottles

Project

WO#: 92320241

PM: KRG Due Date: 11/29/16

CLIENT: 92-AMEC GA

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN
1																3													
2																3													
3																3													
4																3													
5																3													
6																3													
7																3													
8																3													
9																3													
10																3													
11																2													
12																2													

extra

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company: AMEC
Address: 1075 Big Shanty Rd
Suite 100, Kennesaw, GA 30144
Email: rhonda.quinn@amecfw.com
Phone: 770-421-3400 Fax 770-421-3486
Requested Due Date: Standard

Section B
Required Project Information:

Report To: Quinn, Rhonda
Copy To:
Purchase Order #:
Project Name: TK Louisville
Project #: 6122090322

Section C
Invoice Information:

Attention: Accounts payable
Company Name: Amec Foster Wheeler
Address: Kennesaw, GA
Pace Quote:
Pace Project Manager: kevin.godwin@pacelabs.com,
Pace Profile #: 6445-1

Regulatory Agency:
State / Location: GA

MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N): 8260+1,4-Dioxane — N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Trip BLANK	8260+1,4-Dioxane	Residual Chlorine (Y/N)	92320241
1	Mason Branch #2	WT	G			11-17-16	9:30		3				✓						✓		001
2	Seep H	↓	↓			↓	9:38		↓				↓						✓		002
3	Seep G	↓	↓			↓	9:50		↓				↓						✓		003
4	Seep #2	↓	↓			↓	10:00		↓				↓						✓		004
5	Seep 1	↓	↓			↓	10:10		↓				↓						✓		005
6	Seep L	↓	↓			↓	10:20		↓				↓						✓		006
7	MB#16	↓	↓			↓	10:30		↓				↓						✓		007
8	MB#5	↓	↓			↓	10:50		↓				↓						✓		008
9	MB#3	↓	↓			↓	11:05		↓				↓						✓		009
10	MB#15	↓	↓			↓	11:15		↓				↓						✓		010
11	Trip Blank	↓							2									✓			011
12																					012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
				[illegible] Pace [illegible]	11-18	945	5.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jeff Moore

SIGNATURE of SAMPLER: [signature]

DATE Signed: 11-17-16

TK LOUISVILLE FIELD SAMPLING REPORT

PROJECT NO: 6122-09-0322

AMEC Foster Wheeler Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** Mason Branch #2 DEPTH TO PRODUCT: NA

DATE: 11-17-16

PURGE METHOD: NA

TIME: 9:30

SAMPLE METHOD: Fill bottle from surface water

GRAB (x) COMPOSITE ( )

DUP./REP. OF: NA

DEPTH TO WATER:

DEPTH TO PASSIVE DIFFUSION BAG (btoc)

NA

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: 9:30		5.97	12.32	0.072		NA ( )	NA

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:	Sunny & Cool 60°		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Pace Analytical-Huntersville, NC		
SAMPLER:	Jeff Mourle	OBSERVER:	Eve Guillen

[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 Foster Wheeler Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** Seep #2 DEPTH TO PRODUCT:_____ DATE: 11-17-16

PURGE METHOD: NA TIME: 10:00

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: 10:00		5.36	11.61	0.024	39.2	( )	
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:	Sunny 60°		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Pace Analytical-Huntersville, NC		
SAMPLER:	Jeff Moore	OBSERVER:	Eve Guilka

[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 Foster Wheeler Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** Seep B DEPTH TO PRODUCT:_____ DATE: 11-17-16

PURGE METHOD: NA TIME:_____

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:						( )	
		Dry					
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:	
SHIPPED VIA:	FedEX
SHIPPED TO:	Pace Analytical-Huntersville, NC
SAMPLER:	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 Foster Wheeler Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** Seep G DEPTH TO PRODUCT:________ DATE: 11-17-16

PURGE METHOD: NA TIME: 9:50

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: 9:50		5.49	11.96	0.020	109	( )	

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:	Sunny 60°		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Pace Analytical-Huntersville, NC		
SAMPLER:	Jeff Moore	OBSERVER:	Eric Guillen

[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 Foster Wheeler Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** Seep H DEPTH TO PRODUCT: NA DATE: 11-17-16

PURGE METHOD: NA TIME: 9:38

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: 9:38		5.34	14.40	0.031	2.73	( )	

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:	Sunny & Cool 60°		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Pace Analytical-Huntersville, NC		
SAMPLER:	Jeff Moore	OBSERVER:	Eva Guillen

[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 Foster Wheeler Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** Seep 1 DEPTH TO PRODUCT:_____ DATE: 11-17-16

PURGE METHOD: NA TIME: 10:10

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: 10:10		6.17	10.54	0.049	87.4	( )	
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:	Sunny 65°		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Pace Analytical-Huntersville, NC		
SAMPLER:	Jeff Moore	OBSERVER:	Eve Guilen

[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 Foster Wheeler Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** Seep L DEPTH TO PRODUCT:_____ DATE: 11-17-16

PURGE METHOD: NA TIME: 10:20

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: 10:20		5.95	11.06	0.030	93.7	( )	
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:	Sunny 65°		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Pace Analytical-Huntersville, NC		
SAMPLER:	Jeff Myrick	OBSERVER:	Eve Gullen

[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 Foster Wheeler Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** MB# 3 DEPTH TO PRODUCT:_____ DATE: 11-17-16

PURGE METHOD: NA TIME: 11:05

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: 11:05		6.32	11.14	0.064	8.44	( )	
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:	Sunny 65°		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Pace Analytical-Huntersville, NC		
SAMPLER:	Jeff Mingle	OBSERVER:	Eve Guillen

[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 Foster Wheeler Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** MB#5 DEPTH TO PRODUCT:_____ DATE: 11-17-16

PURGE METHOD: NA TIME: 10:50

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: 10:50		6.18	11.16	0.043	8.50	( )	
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:	Sunny 65°		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Pace Analytical-Huntersville, NC		
SAMPLER:	Jeff Hourie	OBSERVER:	Eve Guillen

[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 Foster Wheeler Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: Seep MB#15 DEPTH TO PRODUCT: NA DATE: 11-17-16

PURGE METHOD: NA TIME: 11:15

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

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

TOTAL DEPTH: NA NA

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

Initial PID = NA NA

Bailing PID = NA [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: 11:15		6.41	11.30	0.069	17.3	( )	
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:	Sunny, 65°		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Pace Analytical-Huntersville, NC		
SAMPLER:	Jeff Moore	OBSERVER:	Ever Guillen

[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 Foster Wheeler Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: **Surface Water** MB#16 DEPTH TO PRODUCT:_____ DATE: 11-17-16

PURGE METHOD: NA TIME: 10:30

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: 10:30		5.71	11.63	0.045	12.1	( )	
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:	Sunny 65°		
SHIPPED VIA:	FedEX		
SHIPPED TO:	Pace Analytical-Huntersville, NC		
SAMPLER:	Jeff Monroe	OBSERVER:	Eve Guilkey

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

APPENDIX B

INSPECTION CHECKLISTS FOR RIP-RAP BLANKET AND BUILDING FLOOR SLAB

Rip-Rap Blanket Inspection Checklist – Thermo King, Louisville, Georgia

Inspection Item	Observation		Condition			Weather Conditions: Sunny 70° / Comments (Indicate Locations on Figure D-1 and Attach
	Yes	No	NA	MN	IA	
1. Access Road						
Erosion	✓					} End of Access Road
Ruts/Depressions	✓					
Excess Vegetation/Fallen Trees	✓					
2. Rip-Rap Flume To Check Dam						
Erosion		✓				
Settlement of Rip-Rap		✓				
Sediment Build-up in Check Dam		✓				
Excess Vegetation/Fallen Trees	✓					Lots of vegetation around the rip rap
3. MB#2 Rip-Rap Blanket						
Erosion		✓				
Settlement of Rip-Rap		✓				
Water Flowing on Surface		✓				
Sediment Build-up/Plugging		✓				
Excess Vegetation/Fallen Trees	✓					All Around the MB#2 Area
Sampling Vault Condition	OK					
4. Seep H Rip-Rap Blanket						
Erosion		✓				
Settlement of Rip-Rap		✓				

Rip-Rap Blanket Inspection Checklist – Thermo King, Louisville, Georgia

Inspection Item	Observation		Condition			Weather Conditions: Sunny 70°
	Yes	No	NA	MN	IA	Comments (Indicate Locations on Figure D-1 and Attach
Water Flowing on Surface		✓				
Sediment Build-up/Plugging		✓				
Excess Vegetation/Fallen Trees	✓					All around the Seep H area
Sampling Vault Condition	OK					
5. Vegetated Embankment						
Erosion	✓					Small areas near the bottome end of the embankment
Fallen Trees		✓				
Bare Spots	✓					Yes with fabric showing on the NW embankment
6. Other Observations						

Date of Inspection:	11-17-16	Inspector:	
		(Print)	Jeff Moore
		(Signature)	Jeff A. Moore

8/31/2016

NA = No Action Needed
MN = No Maintenance Needed
IA = Immediate Attention Needed

Thermo King Rip Rap Blanket
Louisville, Georgia
Photographic Log

Client: Ingersoll Rand
Location: ThermoKing, Louisville, Georgia
Project: Riprap Blanket Inspection
Date: 11/17/16
Photo #: 1599
Photographer: J. Moore
Description: Slight erosion at the lower end of the access road.

Client: Ingersoll Rand
Location: ThermoKing, Louisville, Georgia
Project: Riprap Blanket Inspection
Date: 11/17/16
Photo #: 1600
Photographer: J.Moore
Description: Fallen tree at the lower end of the access road.

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Thermo King Rip Rap Blanket
Louisville, Georgia
Photographic Log

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Riprap Blanket Inspection
Date: 11/17/16
Photo #: 1601
Photographer: J. Moore
Description: Typical vegetation above the rip rap slope.

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Riprap Blanket Inspection
Date: 11/17/16
Photo #: 1602
Photographer:
Description: Check dam at the end of the access road, above the riprap slope.

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Thermo King Rip Rap Blanket
Louisville, Georgia
Photographic Log

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Riprap Blanket Inspection
Date: 11/17/16
Photo #: 1603
Photographer: J. Moore
Description: Looking downslope at the riprap flume.

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Riprap Blanket Inspection
Date: 11/17/16
Photo #: 1604
Photographer: J. Moore
Description: Riprap flume headed toward MB#2.

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Thermo King Rip Rap Blanket
Louisville, Georgia
Photographic Log

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Riprap Blanket Inspection
Date: 11/17/16
Photo #: 1605
Photographer: J. Moore
Description: Riprap with typical vegetation.

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Riprap Blanket Inspection
Date: 11/17/16
Photo #: 1606
Photographer: J. Moore
Description: Riprap blanket looking down at MB#2 from top of slope.

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Thermo King Rip Rap Blanket
Louisville, Georgia
Photographic Log

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Riprap Blanket Inspection
Date: 11/17/16
Photo #: 1607
Photographer:
Description: Riprap blanket above the check dam and MB#2.

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Riprap Blanket Inspection
Date: 11/17/16
Photo #: 1609
Photographer: J Moore
Description: Slight erosion above the south side of the riprap blanket.

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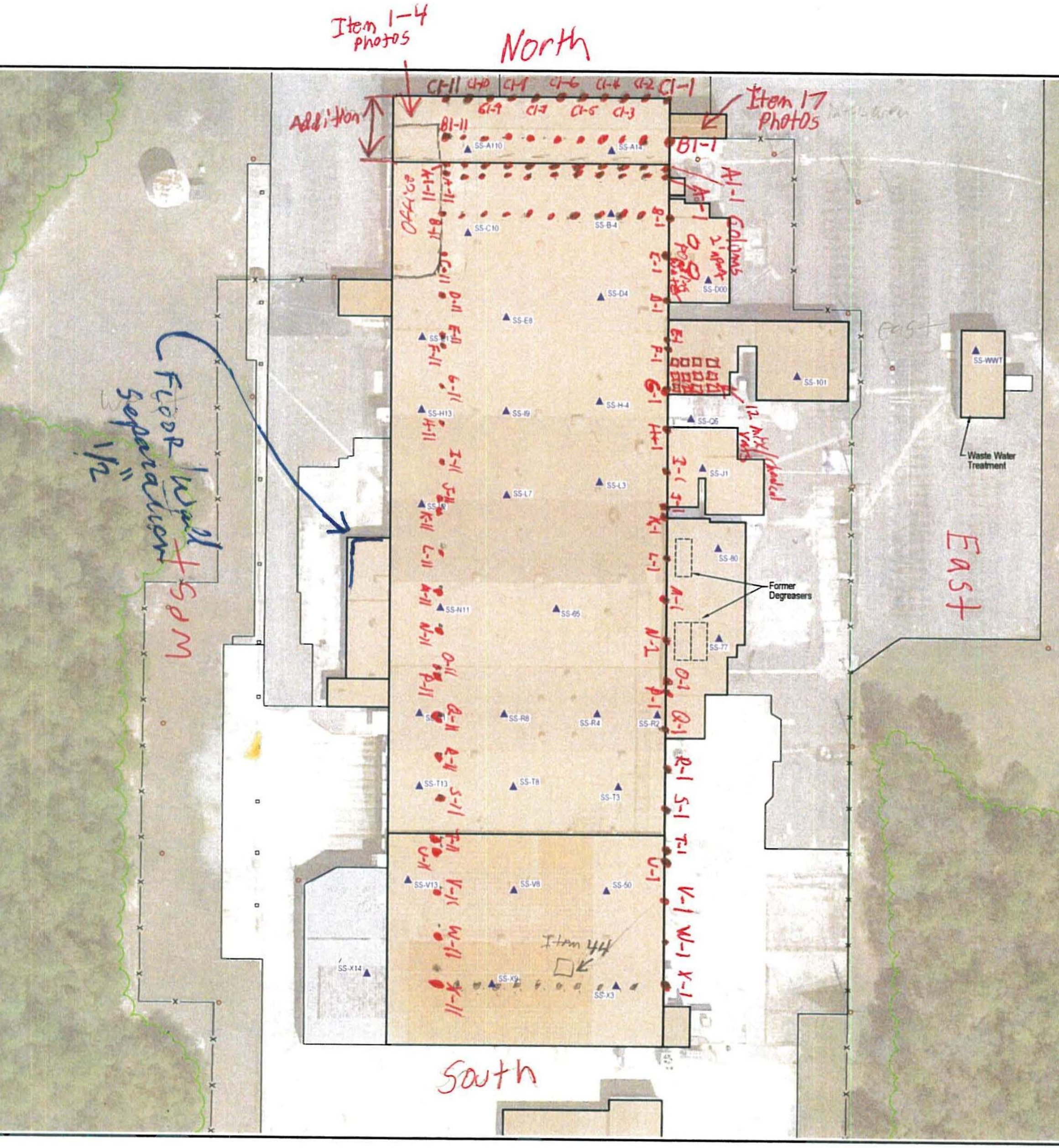
Floor Slab Inspection Checklist (FSIC) – Thermo King, Louisville, Georgia

Condition	Yes	No	Description
1. Are there any cracks in the surface of the concrete greater than 1/8" in width that would allow direct contact with the soil?			
a. Crack location:		✓	
b. Crack length:			
c. Crack width:			
2. Are there any signs of settlement?		✓	
a. Location of settlement:			
b. Severity of settlement:			
3. Is there any floor/wall separation on interior or exterior walls?	✓		½" @ L-1 to H1 SEE Map.
a. Location of separation:			
b. Separation width:	½"		
4. Is there any ponding of water?		✓	
a. Location:			
b. Size (Diameter):			
5. Are expansion joints sealed?	✓		SOME WEAR
a. Location:			
b. Condition of sealing material:			
6. Are there areas where concrete has been repaired/replaced?	✓	✓	NONE SINCE LAST INSPECTION
a. Location:			
7. Are there any areas of discoloration and/or staining in the concrete?		✓	
a. Location:			
b. Size (Diameter):			
c. Apparent Source:			
8. Is there any evidence of animals burrowing underneath the slab?		✓	
a. Location:			
b. Diameter of hole:			

Additional Inspection Items	Y	N	N/A	Location
Abrasion		✓		
Blistering		✓		
Chemical Deterioration		✓		
Honeycombing		✓		
Pitting		✓		
Reinforcement Corrosion		✓		
Spalling		✓		
Other		✓		

9/26/2016

Inspector: Ever Guillen Company: Amec Foster Wheeler Date: 11-17-16



Item 1-4 photos
North
Item 17 Photos
Addition
Columns
12 MTY/Chemical Vats
SS-A110
SS-A14
SS-C10
SS-B-4
SS-D00
SS-D4
SS-E8
SS-H13
SS-I9
SS-H-4
SS-Q6
SS-J1
SS-L3
SS-L7
SS-80
Former Degreasers
SS-N11
SS-65
SS-77
SS-R8
SS-R4
SS-R2
SS-T13
SS-T8
SS-T3
SS-V13
SS-V8
SS-50
SS-X14
SS-X9
SS-X3
Item 44
SS-101
SS-WWT
Waste Water Treatment
East
Floor Wall separation 1/2"
South

Thermo King Concrete Building Slab
Louisville, Georgia
Photographic Log

Client: Ingersoll Rand
Location: ThermoKing, Louisville, Georgia
Project: Building slab inspection
Date: 11/17/16
Photo #: 1591
Photographer: J. Moore
Description: Painted floor area. Typical

Client: Ingersoll Rand
Location: ThermoKing, Louisville, Georgia
Project: Building slab inspection
Date: 11/17/16
Photo #: 1592
Photographer: J.Moore
Description: Typical sealed expansion joint.

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Thermo King Concrete Building Slab
Louisville, Georgia
Photographic Log

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Riprap Blanket Inspection
Date: 11/17/16
Photo #: 1593
Photographer: J. Moore
Description: Typical column row.

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Building slab inspection
Date: 11/17/16
Photo #: 1594
Photographer: J. Moore
Description: Typical historic floor slab repair.

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Thermo King Concrete Building Slab
Louisville, Georgia
Photographic Log

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Building slab inspection:
Date: 11/17/16
Photo #: 1595
Photographer: J. Moore
Description: Typical building interior.

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Building slab inspection
Date: 11/17/16
Photo #: 1596
Photographer: J. Moore
Description: Slight floor/wall separation in southern inspection area.

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Thermo King Concrete Building Slab
Louisville, Georgia
Photographic Log

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Building slab inspection
Date: 11/17/16
Photo #: 1597
Photographer: J. Moore
Description: Typical floor/wall separation in southern inspection area.

Client: Ingersoll Rand
Location: ThermoKing, Louisville, GA
Project: Building slab inspection
Date: 11/17/16
Photo #: 1598
Photographer: J. Moore
Description: Historic floor slab repair.

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