January 26, 2018

Ms. Antonia Beavers
Environmental Engineer
Georgia Department of Natural Resources
Environmental Protection Division
Land Protection Branch, Response & Remediation Program
2 Martin Luther King Jr. Dr., S.E., Suite 1054 East
Atlanta, GA 30334-9000

RE: Former Loef Site, 590 Old Hull Rd., Athens, GA
HIS Site No. 10376; VRP Site No. 802705980

Dear Ms. Beavers,

Please find enclosed the 7th Semi-Annual Progress Report for the above referenced facility prepared by Apex on behalf of Commercial Metals Company. The report summarizes site activities, sampling results, and conclusions completed at the site during the reporting period. The report also contains recommendations and a proposed work plan and schedule for future VRP activities. Please contact me at 205-599-7939 with questions regarding the report.

Sincerely.
Commercial Metals Company

Alan Gillespie
Environmental Manager, East Region

enclosure (1)

CMC Recycling
590 Old Hull Road
Athens, GA 30601
706-613-5201

7th SEMI-ANNUAL PROGRESS REPORT
COMMERCIAL METALS COMPANY/OWEN ELECTRIC STEEL FACILITY
(FORMER LOEF COMPANY SITE)
590 OLD HULL ROAD
ATHENS, GEORGIA
HSI SITE NO. 10376
VRP SITE NO. 802705980

Submitted to:

Georgia Department of Natural Resources
Environmental Protection Division
Response and Remediation Program
2 Martin Luther King Dr., S.E., Suite 1054 East
Atlanta, Georgia, 30334

Submitted by:

Apex Companies, LLC
10610 Metromont Parkway, Suite 206
Charlotte, North Carolina 28269

Apex Project No. 510507-001.04

January 29, 2018

Grant Watkins

S. Grant Watkins, PG, RSM
Program Manager

Kathleen A. Roush

Kathleen A. Roush, PG, RSM
Division Manager

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1.0 INTRODUCTION

Apex Companies, LLC (Apex) has prepared this 7th Semi-Annual Progress Report on behalf of Commercial Metals Company (CMC) for the Former Loef Company Site located on three parcels at 610 Old Hull Road (Parcel #221002C), 590 Old Hull Road (Parcel #221001), and 305 Athena Drive (Parcel #162037) in Athens, Clarke County, Georgia (the "site"). The site is an active industrial scrap metals recycling facility that occupies 21.34 acres of land, inclusive of the three property parcels that are identified as the "VRP Property" under the Georgia Department of Natural Resources (DNR) Voluntary Remediation Program (VRP).

The three parcels that comprise the VRP site property were previously owned by OmniSource Athens Division, LLC (OmniSource) and R.H. Realty, Inc. (c/o OmniSource Southeast). OmniSource entered into an Asset Purchase Agreement with Owen Electric Steel Company of South Carolina (a subsidiary of CMC) for the sale of the property. The transaction for the central and northern parcels of the VRP property closed on March 6, 2017. The southern-most parcel transaction closed on September 7, 2017. As a result of these transactions, Owen Electric Steel Company of South Carolina (a subsidiary of CMC) is currently the legal owner of the three property parcels that comprise the VRP site.

The site was listed on the Georgia Hazardous Site Inventory (HSI) as a Class II site on June 9, 1995 (Site Number 10376) following discovery of soil and groundwater contamination at the facility. The site location on a regional topographic map is shown on **Figure 1**. A site plan that includes the facility layout and existing monitoring well locations is shown on **Figure 2**.

This report was prepared for submittal to the Georgia DNR Environmental Protection Division (EPD) and it documents work completed at the site since the last semi-annual reporting period. Findings of the most recent groundwater sampling event (October 2017) and results of an additional on-site groundwater investigation are included herein.

1.1 Site Background and Regulatory Summary

Hull Real Estate, LLC (Hull) was the prior owner of the site before OmniSource's acquisition of the property. On November 7, 2011 Peachtree Environmental (Peachtree) submitted a VRP application to the EPD on behalf of Hull, and EPD accepted the site into the VRP in May 2012. Hull had committed to completing the site remediation under the VRP after selling the property to OmniSource. However, Hull later reneged on that commitment and informed the EPD that they were no longer willing to complete site remediation work.

On March 12, 2015 OmniSource submitted a VRP application with the intent to complete regulatory closure at the site. The VRP application identified additional activities to be conducted for site closure. EPD accepted OmniSource as a participant in the VRP for the referenced property in a letter dated May 8, 2015.

Prior remedial activities at the site include excavation and off-site disposal of approximately 43,000 tons of soil impacted by volatile organic compounds (VOCs) and metals from 2002 through 2003. An in-situ groundwater treatment event was also completed in 2003. The groundwater treatment event included injection of Hydrogen Release Compound (HRC®) as a carbon substrate to promote enhanced anaerobic biodegradation of chlorinated volatile organic compounds (cVOCs) in groundwater.

Both Hull and OmniSource performed ongoing, routine groundwater sampling events to monitor migration of the VOC plume and the long-term effectiveness of the enhanced biodegradation treatment program combined with monitored natural attenuation (MNA) as a groundwater cleanup remedy. CMC has continued with a modified groundwater monitoring program to track the progress of the bioremediation remedy and the plume MNA processes.

The last semi-annual Progress Report submitted by CMC to EPD was the *6th Semi-Annual Progress Report* (Apex: September 29, 2017). Previous VRP site field activities and evaluations conducted by CMC and addressed by the 6th Progress Report included:

- Response to EPD's comments dated August 1, 2017;
- A formal request for extension to submit the final VRP compliance status report;
- Methods and results of a limited confirmation groundwater sampling event conducted at the site in May 2017;
- A work plan for additional on-site groundwater assessment using direct push technology (DPT) sampling methods and a modified groundwater sampling plan;
- An updated Conceptual Site Model (CSM); and
- An updated VRP schedule of activities.

1.2 Work Scope Completed for Current Progress Report

This *7th Semi-Annual Progress Report* presents information regarding VRP site activities performed during the most recent semi-annual reporting period and since submittal of the last progress report. It also includes a work plan to conduct additional site investigation activities. Work completed since submittal of the last progress report, and presented for the current reporting period, includes the following:

1. Methods and results of the October 2017 groundwater monitoring event at existing Site monitoring wells;
2. Methods and results of the limited on-site groundwater assessment using direct push technology (DPT) sampling methods;
3. A work plan for additional groundwater assessment to evaluate the potential presence and distribution of volatile organic compounds (VOCs) in groundwater at off-site properties east of the CMC property;
4. Initial screening level evaluation of the potential vapor intrusion (VI) exposure pathway, and a work plan to collect additional data as needed to further evaluate potential VI risks (see Section 3.4 of this report for evaluation methods and results);
5. An updated CSM; and
6. An updated VRP schedule.

2.0 GROUNDWATER ASSESSMENT METHODS

This section describes the scope and methods used to conduct the most recent groundwater assessment at the site in October 2017. The groundwater assessment consisted of two components: a routine groundwater monitoring event at existing Site monitoring wells; and DPT

groundwater sampling to further delineate the on-site VOC plume in groundwater. These assessment activities were performed in general accordance with the work plan presented in the *6th Semi-Annual Progress Report* (Apex: September 29, 2017).

2.1 Groundwater Gauging and Sampling at Monitoring Wells

A groundwater monitoring event was conducted from October 10-11, 2017 at select Site monitoring wells. The groundwater monitoring program is summarized in **Table 1**. Groundwater levels were first gauged from twelve of the thirteen planned monitoring wells (MW-1, MW-1D, MW-3A, MW-4A, MW-6, MW-7A, MW-9A, MW-10, MW-11, MW-12, MW-13, and MW-14). Water level gauging was followed by groundwater purging and sampling from nine of the ten monitoring wells proposed for sampling: MW-1, MW-1D, MW-3A, MW-4A, MW-9A, MW-10, MW-11, MW-12, and MW-14.

Well MW-8A could not be gauged or sampled during the October 2017 sampling event as planned due to access restrictions caused by several days of heavy rainfall prior to the sampling event. The areas around well MW-8A were surrounded by ponded water, and the well was partially submerged under water and could not be safely accessed by Apex personnel during the sampling event. Additionally, well MW-11 was found to be damaged with an obstruction at the ground surface level. The damaged metal outer casing, well pad, and PVC stickup pipe at MW-11 were removed and the well could then be gauged and sampled; however, the October 2017 water level elevation for this well is not accurate because the top of casing elevation has changed by approximately three feet.

Prior to purging and sampling, each of the wells were opened and allowed to equilibrate. Groundwater levels wells were then gauged with a decontaminated electronic water level probe and were recorded to the nearest 0.01-foot. Historical groundwater gauging and elevation measurements, including data from the October 2017 gauging event, are provided in **Table 2.**

Following gauging activities, nine of the wells were purged and sampled by low flow protocol in accordance with the U.S. EPA Region IV Science & Ecosystem Support Division (SESD) Operating Procedure for Groundwater Sampling (SESDPROC-301-R3). The wells were purged using a peristaltic pump equipped with Teflon-lined tubing with the intake placed near the middle of the screened interval. The wells were sampled in order of lowest to highest VOC concentrations based on historical sampling results.

During low-flow well purging, groundwater water quality indicator parameters of pH, temperature, specific conductance, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity were recorded at five-minute intervals using a Horiba U-52 multi-probe water quality meter. As a general practice, groundwater samples are collected when water chemistry parameters are stable (e.g., pH values within 0.1 standard unit, specific conductance within 3% and turbidity within 10%) for a minimum of three consecutive five-minute intervals. **Table 3** summarizes the historical groundwater field parameters, including those for the October 2017 sampling event. Groundwater sampling forms documenting the groundwater quality indicator parameters are provided in **Appendix A**. Each of the purged wells had stabilized turbidity levels below 10 NTUs with the exceptions of MW-3A which stabilized around 20 NTU, MW-11 which stabilized around 33 NTU, and MW-14 which stabilized around 14 NTU.

Following purging, groundwater samples from each well were collected into laboratory supplied sample containers using the peristaltic pump. In accordance with SESDPROC-301-R3, samples for VOC analyses were collected using the “soda straw” method. The sample containers were

labelled with a unique sample number, date and time of collection, sampler's initials and analyses required. Following collection, the samples were placed in a cooler with ice. Chain-of-custody documentation was maintained throughout the sampling event.

Samples from each well, a duplicate sample (labeled as DUP10112017), and a trip blank were transported under chain-of-custody to Pace Analytical Services, Inc. (Pace) of Huntersville, North Carolina and analyzed for VOCs by EPA Method 8260B. The laboratory analytical report and chain-of-custody records are found in **Appendix B**. Pace is a Georgia-certified laboratory via reciprocity under Florida NELAP certification #E87627. Discussion of the October 2017 groundwater monitoring results are provided in Section 3.0 herein.

2.2 Direct-Push Groundwater Sampling (On-Site)

A limited on-site groundwater assessment was conducted from October 10-12, 2017 using DPT (i.e., Geoprobe®) sampling methods. Multi-depth groundwater samples were collected at six DPT boring locations (GW-1 through GW-6) shown on **Figure 3**. As described in the 6th Progress Report work plan, the DPT groundwater borings were located to provide further on-site vertical and horizontal delineation of the VOC plume. Multi-depth groundwater samples were collected based on the screened intervals and vertical data gaps at the existing on-site monitoring well network.

The direct-push sampling program was performed using a Geoprobe® model 7822 track-mount DPT rig. A retractable screen sampler with a nominal 4-foot sampling interval was used to collect in-situ groundwater samples from each boring. The sampling tool was hydraulically advanced to the desired maximum depth, where the protective outer rod was retracted to allow groundwater to enter the inner screened sample chamber. A peristaltic pump with disposable polyethylene tubing and/or a check valve sampler was used to collect the groundwater samples.

A total of 12 primary groundwater samples, plus two duplicate samples, were collected from the individual DPT boreholes advanced for each sample. Groundwater samples were collected at the following depth intervals at the various DPT boring locations:

- One shallow groundwater sample near the water table, from 25-29 feet below ground surface (bgs), at one DPT boring location (GW-5);
- Six mid-depth groundwater samples, ranging in depth from 46 to 55 feet bgs, from each of the six DPT boring locations; and,
- Five deep groundwater samples, ranging from 66 to 74 feet bgs, at five of the DPT boring locations. Each of the deeper borings were pushed to DPT probe refusal before collecting the groundwater sample.

Groundwater samples were submitted to Pace in Huntersville, North Carolina for laboratory analyses of VOCs by Method 8260B. The two duplicate samples, labeled as GW-Dup-01 and GW-Dup-02, were also submitted along with a trip blank for laboratory analysis of VOCs. Pace is a Georgia-certified laboratory via reciprocity under Florida NELAP certification #E87627. Laboratory analytical results for the groundwater samples collected by DPT methods are found in **Appendix C**.

Soil cores were not collected during the DPT sampling program. Upon completing the sample collection, each DPT borehole was abandoned with a bentonite/cement grout mixture to the ground surface. A survey of the location and ground elevation of each DPT boring is pending.

3.0 GROUNDWATER AND VAPOR INTRUSION ASSESSMENT RESULTS

3.1 October 2017 Groundwater Gauging Results

Table 2 summarizes the historical groundwater gauging and elevation measurements, inclusive of the October 10, 2017 gauging event. Water level elevations were generally higher in these wells during the October 2017 gauging event when compared to their prior water level elevations in November 2016. For the wells that were gauged in May 2017, the water level elevation changes during that preceding five-month period ranged from -1.42 feet at MW-7A to +2.28 feet at MW-9A. These results confirm prior observations that water level fluctuations of several feet can occur in the shallow site wells over relatively short time periods. Apex noted that the water level elevation in MW-9A was the highest recorded since 2006. As previously mentioned, the ground surface in the areas around wells MW-8A and MW-9A was flooded from heavy rainfall prior to the sampling event.

3.1.2 Groundwater Potentiometric Flow

Groundwater elevation data from Table 2 were used to construct a groundwater potentiometric map for October 10, 2017 as shown in **Figure 4**. The potentiometric map indicates that shallow groundwater was flowing generally toward the south-southeast over most of the Site during the October 2017 gauging event. Groundwater elevation data from MW-11 were not used in the potentiometric map construction for this gauging event due to the reasons previously discussed.

The potentiometric map for October 10, 2017 also shows a mounding pattern in shallow groundwater in the area around well MW-9A. As discussed in Section 2.1, the lower ground areas around wells MW-8A and MW-9A were flooded from heavy rainfall several days prior to the October 2017 gauging event, and the water level elevation at well MW-9A was the highest recorded in the past decade. The heavy precipitation appears to have affected the short-term shallow groundwater levels on this part of the property. Similar short-term groundwater mounding was observed historically as well following ponding and infiltration of water runoff in the undeveloped southern parcel of the Site. The groundwater mounding observed during October 2017 is expected to be temporary as well.

Groundwater horizontal flow gradients in the surficial aquifer zone vary from the northern portion of the site, where the hydraulic gradient is lower, to the southern portion of the site where the gradient becomes steeper. Using three-point triangulation methods, a hydraulic gradient of 0.0124 ft/ft was calculated for the upgradient portion of the site in the area between wells MW-6, MW-12, MW-1, and MW-13. A steeper hydraulic gradient of 0.0484 ft/ft was calculated using triangulation methods for wells MW-7A, MW-3A and MW-4A located near the east-southeastern property boundary. As previously mentioned, a groundwater mounding pattern was evident at well MW-9A, which temporarily affected the hydraulic gradients and the normal flow components on this part of the Site property.

Because there is not a multi-depth cluster of closely-spaced shallow and deep wells at the site, vertical hydraulic gradients could not be directly determined from groundwater elevation data at deep well MW-1D. Previous vertical gradient calculations in the 5th Progress Report and the 6th Progress Report showed a downward groundwater flow vector in the aquifer at well MW-1D. Vertical gradient calculations were not performed for the October 2017 groundwater elevation data due to the anomalous groundwater mounding that was occurring in the area between wells MW-9A and MW-1D.

3.2 Groundwater Analytical Results for Monitoring Wells

Table 4 summarizes the monitoring well VOC analytical results for the October 2017 sampling event along with historical groundwater VOC results. **Figure 5** shows the detected VOCs for monitoring wells sampled in October 2017. Historical 2015 analytical data from well MW-2A are also shown on this figure for reference.

Laboratory analytical results in Table 4 show that nineteen different VOCs were detected at quantified or estimated (J-flagged) concentrations in one or more groundwater samples from the nine wells sampled in October 2017. However, only four of these VOCs were detected at concentrations above their Type 1 Risk Reduction Standards (RRSs) for groundwater:

- Benzene,
- 1,1-Dichloroethene (DCE)
- Methylene Chloride
- Trichloroethene

Trichloroethene had the highest number of detections and it was found in six out of the nine groundwater samples. But TCE exceeded its Type I RRS in only two of the samples. Trichloroethene was detected in the sample from monitoring well MW-1D at a concentration of 15.3 micrograms per liter (µg/L) and in well MW-11 at a concentration of 450 µg/L, above the Type 1 Risk Reduction Standard of 5 µg/L.

1,1-DCE was detected in three wells (MW-1, MW-11 and MW-12). Concentrations of 1,1-DCE exceeded its Type 1 Risk Reduction Standard of 7 µg/L at wells MW-11 and MW-12.

Benzene was detected in MW-1 (1.7 µg/L) and MW-10 (2 µg/L), below the Type 1 Risk Reduction Standard of 5 µg/L. Benzene was detected in well MW-3A (7.4 µg/L) and in MW-11 (12.7 µg/L) above the Type 1 Risk Reduction Standard of 5 µg/L.

Source area well MW-11 had the most exceedances (four VOCs) of their respective Type 1 RRS for groundwater. The only exceedance of the Type 1 RRS for Methylene Chloride occurred at well MW-11 (10.8 µg/L). Well MW-10 had the largest number of individual VOC detections (11 total), although the majority of these detections were J-flagged estimated concentrations. When compared to the November 2016 and May 2017 sampling results, the detected VOCs were generally lower concentrations or relatively unchanged during the October 2017 event (see Table 4). TCE concentrations have continued to decline at wells MW-1, MW-1D, MW-3A, MW-4A, MW-10 and MW-11.

The inverse relationship between TCE concentrations and water level elevations continued to be demonstrated at wells MW-3A, MW-4A and MW-10 during the October 2017 sampling event. Historically, this relationship has been most pronounced at MW-4A, where the water level elevations and TCE concentrations have shown significant fluctuations with an inverse relationship. This phenomenon was discussed in more detail in the 5th Progress Report and as described below. The cause of this inverse relationship has been confirmed through further vertical delineation of VOCs in groundwater.

3.3 Analytical Results for DPT Groundwater Samples

Table 5 summarizes the VOC analytical results from the on-site DPT groundwater samples collected in October 2017. Laboratory results in Table 5 show that seventeen different VOCs were detected at quantified or estimated (J-flagged) concentrations in one or more on-site groundwater samples collected by DPT methods. However, only four of these VOCs were detected at concentrations above their Type 1 RRSs for groundwater in one or more samples:

- Benzene,
- 1,1-DCE
- Cis-1,2-DCE
- Trichloroethene

Trichloroethene had the highest number of detections. It was found in twelve out of the fourteen DPT groundwater samples collected, and it exceeded its Type I RRS in five of the samples (excluding the duplicate sample). The highest detected concentration was 161 µg/L, found in both the shallow and deep samples collected at DPT boring GW-2.

Benzene exceeded its Type 1 RRS in three samples (excluding the duplicate sample). The highest benzene detection (94 µg/L) was also found in DPT boring GW-2.

Figure 6 shows the detected VOCs in the on-site DPT groundwater samples on a site map. Overall, the highest concentrations of detected VOCs were generally found in the intermediate depth DPT samples collected at depths of 46-55 feet bgs. The estimated lateral boundary of TCE concentrations greater than its Type 1 RRS (5 µg/L) is also shown in Figure 6. The TCE plume boundary interpretations in Figures 6 also consider the analytical data collected from adjacent monitoring wells.

3.3.1 Field QA/QC Samples

No VOCs were detected in either of the trip blanks submitted to Pace analytical during the October 2017 monitoring well sampling event and the DPT sampling event.

A duplicate groundwater sample (DUP10112017) was collected from well MW-3A during the October 2017 sampling event and analyzed for VOCs by EPA Method 8260B. The duplicate sample showed similar results to the primary sample MW-3A, with most VOC concentrations within 14 percent or less variations. The exception was 4-Methyl-2-Pentanone, where the reported duplicate concentration was 4.4J µg/L and the primary sample concentration at MW-3A was <0.33 µg/L. The lab reported two qualifiers in the primary data set regarding 4-Methyl-2-Pentanone where results may have been biased high in samples MW-4A, MW-9A, MW-10, MW-14 and in duplicate sample DUP10112017 due to carry over from a prior sample batch.

Two duplicate groundwater samples (GW-Dup-01 and GW-Dup-02) from primary DPT sample locations GW-2 (50) and GW-6 (55), respectively, were submitted for laboratory analyses of VOCs by Method 8260. Primary sample GW-2 (50) showed the variations in TCE (23.6% lower) and benzene (20.2% lower) compared to its duplicate sample GW-Dup-01. It is noted that the practical quantitation limits (PQLs) were higher for the primary sample, which would have affected the comparison of non-detects and estimated (J-flagged) concentrations between the two samples. The primary sample GW-6 (55) generally showed higher concentrations of detected VOCs compared to its duplicate sample GW-Dup-02. The TCE concentration in sample GW-6 (55) was more than 50% higher than in its duplicate sample.

3.4 Vapor Intrusion Screening Evaluation

To evaluate the potential for intrusion of subsurface vapor-phase VOCs into an on-site building from impacted groundwater, the October 2017 groundwater VOC concentrations were evaluated using the USEPA *OSWER Vapor Intrusion Screening Level (VISL) Calculator, Version 3.5* (EPA, 2017). This tool uses the June 2017 USEPA Regional Screening Levels to calculate the carcinogenic risk and hazard index of various VI exposure pathways, including the site groundwater to indoor air concentrations.

Data from wells MW-1 and MW-11 were evaluated for the initial VISL screening evaluation. Well MW-1 was evaluated because it is located closest to an occupied on-site building and it is a shallow well that contains multiple VOCs at low concentrations. MW-11 was also evaluated because this well contains the highest concentrations of VOCs in groundwater at the Site and it is also a shallow well. Dissolved VOCs in shallow groundwater represent the greatest volatilization risk to indoor air via the groundwater source pathway. Deeper VOC-impacted groundwater has less potential to impact overlying vadose zone soil gas and indoor air.

A commercial exposure scenario was used for both sets of VISL calculations. This is a reasonable assumption for the on-site data because CMC owns the VRP Site parcels and can apply land use restrictions via the UEC process if required to address VI exposure risks. A carcinogenic target risk (TCR) of 1.00E-06 and a non-carcinogenic target hazard quotient (HQ) of 1 were also used as the default risk levels for both sets of VISL calculations. Concentrations of detected VOCs in groundwater from the October 2017 sampling event were input into calculator. The average groundwater temperature from each well was also used. VISL Calculator results for the October 2017 groundwater data at MW-1 and MW-11 are presented in **Appendix D**.

The groundwater VISL screening results for MW-1 (Appendix D) showed that chloroform was the only VOC that exceeded its Target Groundwater Concentration using a default TCR of 1.00E-06 and HQ of 1. An indoor air carcinogenic risk level of 5.2E-06 for chloroform was calculated using the VISL Calculator. The HQs were less than 1 for all VOCs detected in groundwater at MW-1.

For well MW-11, benzene and TCE were the only VOCs that exceeded their Target Groundwater Concentrations. VISL screening results showed individual indoor air carcinogenic risk levels of 1.5E-06 for benzene and 4.8E-05 for TCE. Additionally, an HQ of 17 was calculated for TCE at MW-11, while the remaining VOCs had HQ values less than 1. It is important to note that well MW-11 is located at least 300 feet from the nearest occupied building and the groundwater VOC concentration reduce significantly in the distance between MW-11 and MW-1.

CMC will have the option to control exposure risks in the area around MW-11 using land use restrictions under a UEC. Further evaluation of the cumulative risks for all detected VOCs can be considered for the area around MW-1. Additional evaluation of the VI pathway and/or VI exposure controls may be required for the VRP site property.

4.0 REVIEW OF CONCEPTUAL SITE MODEL

This section provides a review and update of the CSM, including the current status of each exposure pathway. The initial VRP application submitted by Hull in 2011 included a description of the CSM developed by Peachtree Environmental, Inc. A CSM update was provided in the *2nd Semi-Annual Progress Report* (April 2013) prepared by Peachtree and in subsequent progress reports submitted by Apex.

Findings of the October 2017 groundwater DPT assessment the current groundwater monitoring period provide a significant change to the CSM and our understanding of the groundwater plume at the Site. The CSM update is described in the following sections.

4.1 CSM Update

Site Hydrogeology

Based on groundwater gauging data obtained by Apex in January 2015, May 2015, April 2016, November 2016, and October 2017, groundwater consistently flows toward the south-southeast over most of the Site under normal hydrologic conditions. The October 2017 gauging data showed the short-term effects on groundwater elevations caused by significant precipitation events. Specifically, the low-lying area around wells MW-8A and MW-9A are prone to surface flooding, and these shallow wells with well screens closer to the ground surface show relatively rapid changes in groundwater levels following major precipitation events. This was best illustrated at MW-9A during the October 2017 gauging event, where the water level elevation was the highest ever recorded and it was 14.49 feet higher than the November 2016 gauging event. As a result, a temporary mounding effect was seen with an apparent reversal in the groundwater flow direction around the well.

Vertical hydraulic gradients could not be determined during the October 2017 gauging event, but have been estimated from prior water level gauging events. During the November 2016 gauging event, the estimated vertical hydraulic gradient in groundwater was 0.0771 ft/ft, and the flow direction was downward at the MW-1D well location. Historical data show variations in the vertical gradients between sampling events, but the flow direction remained downward in each event. Shallow and deep water level data from the October 2017 gauging event suggest that a downward groundwater flow direction existed during that event as well.

The upper 80 feet or more of the soil column consists of sandy silt to sandy clay residuum and saprolite. Dense saprolite with increasing content of rock fragments was encountered at depths between 60-74 feet bgs in the boring for deep well MW-1D. Dense, partially weathered rock (PWR) and/or consolidated bedrock was not encountered in the deep well boring. The on-site DPT refusal depths occurred between 52 and 74 feet bgs. Direct-push refusal depths likely represent the deeper, dense saprolite zone and/or the top of the PWR transition zone.

Well MW-1D sampling data from June 2015, April 2016, November 2016 and October 2017 verify that VOC concentrations in the deeper portions of the saprolite are one to two orders of magnitude lower than the VOC concentrations in the shallow aquifer zones on this part of the VRP site. This comparison is made using current data from source area well MW-11, historical data from MW-2A (now abandoned), and the deep well MW-1D. These results suggest that the plume attenuates rapidly with depth, before reaching the PWR hydrostratigrahic zone in the south-central part of the Site. This limits the potential seepage velocity of the plume.

Slug test data indicate that the saprolitic material has a hydraulic conductivity (K) ranging from 0.3843 ft/day (downgradient perimeter) to 2.299 ft/day (upgradient). Groundwater flows to the south-southeast over most of the Site based on potentiometric map interpretations.

For the October 2017 event, a hydraulic gradient of 0.0124 ft/ft was calculated for the upgradient portion of the Site in the area between wells MW-6, MW-12, MW-1, and MW-13. A steeper hydraulic gradient of 0.0484 ft/ft was calculated using triangulation methods for wells MW-7A, MW-3A and MW-4A located near the east-southeastern property boundary.

The linear groundwater seepage velocity was derived from the following calculation that used in prior progress reports and in the current calculations for October 2017 data:

Linear Seepage Velocity: $v_s = -K\ i\ /\ q$

Where:

v_s = linear seepage velocity [units of Length/Time]

K = hydraulic conductivity [units of L/T; determined from slug tests]

i = hydraulic gradient [units of Length/Length; determined from potentiometric map]

q = effective porosity [units of percent Volume/Volume; literature values from soil type]

Historically, the *4th Semi-Annual Progress Repor*t estimated an average groundwater linear seepage velocity of approximately 30.4 feet/year based on an effective porosity of 18%, an average K of 0.6632 ft/day (average of 2015 slug test values from MW-4A and MW-11), and a gradient of 0.023 ft/ft (measured in the plume area perpendicular to potentiometric lines between MW-11 to MW-4A). For the November 2016 monitoring event, a slightly higher gradient of 0.0376 ft/ft was measured between MW-11 and MW-4A, corresponding to a higher seepage velocity estimated as 50.6 ft/year using the above equation.

For the October 2017 data, the seepage velocity estimates vary from 16.7 ft/year for the northern part of the Site property (where there is a lower hydraulic gradient) to 65.1 ft/year on the southeast portion of the property where the gradient is higher. Previous progress reports by Apex stated that the linear seepage velocity could range from 65 ft/year to 107 ft/year at various locations across the Site using the variable hydraulic gradients, variable K values, and an 18% effective porosity value. The 2015 through 2017 data suggest that a lower range of linear seepage velocities (<65 ft/year) can be reasonably considered for the Site as well.

A trend graph was developed and presented in the *5th Progress Report* that compared long-term precipitation data from a nearby USGS monitoring station with long-term water level elevations at well MW-4A. This graph was presented to illustrate the time period (delay) between seasonal high and major precipitation events compared to increases in site groundwater levels due to recharge. The trend graph indicated that the highest water level elevations in MW-4A occurred approximately six to eight months following the peak of seasonal high precipitation trends, with shorter recharge time periods of four to six months also evident on the graph. The water level observations at MW-9A during the October 2017 gauging event indicate that recharge of the shallow aquifer from major precipitation events is even quicker in areas of the Site that have a thinner vadose zone.

Regulated Constituents

The list of regulated constituents for soil and groundwater was established in previous progress reports and has not changed based on the current data. During the April 2016 sampling event, seven VOCs that had previously not been tested or reported in site groundwater were detected at quantified or estimated (J-flagged) concentrations at one or more wells. For the October 2017 sampling event, three of these newly-reported VOCs were again detected at quantified or estimated (J-flagged) concentrations in one or more wells:

- 1,2-Dichloroethane
- Chloromethane
- Methylene Chloride

Of these three VOCs, only methylene chloride exceeded its Type 1 RRS at well MW-11 during the October 2017 sampling event. Methylene chloride is a common laboratory contaminant and it does not appear to be Site contaminant of concern (COC) with frequent or widespread occurrence.

Soil Exposure Pathway

Soil COCs were previously identified and delineated to background concentrations by Peachtree. Remedial activities were conducted in 2002 and 2003 to address soil and groundwater. Prior remedial activities at the site include excavation and off-site disposal of approximately 43,000 tons of impacted soil. Compliance with non-residential Type 3 and Type 4 RRSs for soil was demonstrated in prior submittals to GAEPD. Based on this work, the impacts to unsaturated soil have been addressed and there is no known exposure pathway that remains in soil. The soil exposure pathway in the CSM remains unchanged from the previous progress report.

Groundwater Plume Extent and Exposure Pathways

The COCs are limited to those VOCs that have a RRS in groundwater. The *5th Semi-Annual Progress Report* (Apex; February 27, 2017) suggested that the dissolved TCE and benzene plume was migrating past the eastern fence line of the CMC property at concentrations above their respective Type 1 RRSs. This report was also the first to describe the periodic fluctuations of TCE and benzene concentrations at wells MW-4A and MW-10, and the inverse relationship between TCE concentrations and water level elevations at wells MW-3A, MW-4A, and MW-10. These observations led to development of the DPT groundwater investigation conducted in October 2017.

Results of the on-site DPT groundwater investigation in October 2017 now confirm that higher concentrations of TCE and other VOCs are present in deeper groundwater in the areas around wells MW-10, MW-4A, and MW-7A than is detected in these three shallow wells. Figure 5 and Figure 6 show the October 2017 analytical results for the monitoring wells and DPT borings, respectively. To better visualize the vertical distribution of these VOCs in the context of a CSM, two updated cross sections were prepared for these areas of concern. **Figure 7** shows cross section A-A' which traverses north-south between wells MW-10, MW-4A, and MW-9A. **Figure 8** shows cross section B-B', which traverses roughly west-east through wells MW-14, MW-1D, and MW-4A. The DPT borings along both cross sections are shown along with their sampling results and the October 2017 monitoring well sampling results. Lithologic interpretations in these cross sections are taken from historical soil boring logs and geologic cross sections prepared by prior consultants.

Figure 7 cross section shows a deeper component of the TCE plume that wells MW-4A and MW-10 largely miss because they are screened too shallow. This result confirms the prior speculation that VOC concentrations at MW-4A had an inverse relationship to water level fluctuations due to its very shallow well screen. Probe refusal was 71 feet bgs at GW-2, located adjacent to well MW-4A, where the benzene and TCE concentrations were one and two orders of magnitude above their Type 1 RRSs, respectively.

Figure 8 cross section shows a similar vertical distribution of VOCs. In the shallow aquifer zones adjacent to deep well MW-1D, DPT groundwater samples from GW-5 had detected VOC concentrations that were all below their Type 1 RRSs. The TCE concentration in deep well MW-1D (depth = 74 feet) was four times higher than the TCE concentration adjacent DPT sample GW-5 (52) collected at a depth of 48-52 feet bgs. It appears that the location of MW-1D is too far south

and west to detect the higher concentrations of deeper VOCs that are migrating from the MW-11 area toward areas around MW-4A.

Current assessment results confirm that well MW-4A is not suitable as a Point of Determination (POD) well for the deeper portions of the dissolved VOC plume. Well MW-4A may still have application as a supplemental POD well to monitor the very shallow zones of the aquifer at the eastern property line. Shallow groundwater VOC data may support a future VI assessment. Based on the deeper groundwater analytical data from DPT borings GW-1 and GW-2, it is apparent that the dissolved plume extends beyond the eastern CMC fence line and potentially beyond the eastern deeded property line (i.e., the center of the railroad tracks) above the Type 1 RRSs for TCE and benzene.

Surface Water Exposure Pathways

The closest perennial surface water body is East Fork Trail Creek, which is located south and southeast of the Site more than 1,000 feet from the currently-known extent of the groundwater plume. Based on the most recent groundwater data obtained, there is no evidence that the surface water exposure pathway is complete. The highest VOC concentrations in groundwater at the CMC eastern fence line (161 µg/L of TCE) are expected to attenuate before reaching the creek. The surface water exposure pathway will be re-evaluated if additional groundwater data are obtained east of the CMC property.

Subsurface Vapor Intrusion Exposure Pathway

Section 3.4 of this report describes the initial on-site VI evaluation using the EPA VISL calculator for the groundwater-to-indoor air exposure pathway. The potential VI conditions at off-site properties is currently unknown. Off-site shallow DPT groundwater data will be input into the VISL calculator if they become available.

If off-site data are not available, the VISL calculator will be run to evaluate shallow groundwater data for the VRP site property boundary wells. The VI screening results at the property boundary would be used to predict the off-site VI exposure, based on the assumption that off-site VOC concentrations in shallow groundwater are lower.

4.2 Point of Exposure Determination

Well MW-9A was the original POD well identified since it is hydraulically downgradient of the historical source area near well MW-2A. Well MW-4A was added as a POD well in 2015 since it was determined to be positioned more directly downgradient from the secondary source area in the vicinity of MW-11. Both wells MW-9A and MW-4A have been used as POD wells for the past two or more years. As stated earlier in this report, MW-4A may no longer be suitable as a POD well and the location of a replacement POD well will be further evaluated as the off-site DPT groundwater investigation progresses.

The basis for establishing a point of exposure (POE) is a hypothetical receptor that is located 1,000 feet downgradient of the plume boundary. This receptor is presumably a surface water body since there are no known water supply wells within this distance from the Site. The POE will be re-evaluated as more data about the plume extent become available.

5.0 WORK PLAN FOR ADDITIONAL GROUNDWATER INVESTIGATION

5.1 Supplemental Groundwater Investigation

CMC proposes to conduct additional phases of groundwater investigation as outlined in this section. The groundwater investigation program is based on the results of the on-site DPT sampling work completed in October 2017. The groundwater investigation will have several objectives, listed below, as they relate to the future CSR completion under the VRP program:

- Further investigate the vertical and horizontal extent of VOCs that have potentially migrated off-site to the east and southeast of the CMC property;
- Install at least two additional permanent monitoring wells as needed to complete the plume delineation and to re-establish an appropriate POD monitoring location;
- Collect additional off-site, shallow groundwater VOC data as needed to support an initial screening level evaluation for VI on off-site properties.

The proposed work scope to accomplish these objectives is described below.

5.1.1 Off-Site DPT Groundwater Assessment

CMC is attempting to execute an access agreement with the owner of the two commercial properties located east of the CMC property. If access is granted, CMC will conduct a groundwater investigation within the allowances of work allowed by the owner on each off-site property parcel. The proposed investigation plan includes initial groundwater sampling at the off-site properties using DPT (i.e., Geoprobe®) sampling methods. The DPT groundwater sampling will be used as a screening tool to determine if the VOC plume has migrated to these off-site parcels and to delineate the spatial extent of the plume. If required, the DPT screening data can then be used to facilitate placement of a permanent off-site well that will become a new Point of Determination (POD) well for the site.

For the initial phase of the off-site investigation, multi-depth DPT groundwater sampling will be conducted at six (6) off-site boring locations as shown in **Figure 9**. A Geoprobe® model 7822 track-mount rig will be used to advance borings and collect groundwater samples. A retractable screen sampler will be able to collect in-situ groundwater samples from each boring. Small diameter temporary PVC wells may be installed at any locations where in-situ groundwater sampling and water recovery is problematic. Prior to borehole advancement, site utilities in the work area will be located and marked using a combination of 811 public utility locating and the services of a private utility locator.

Up to 12 primary groundwater samples, plus one duplicate, will be collected by DPT methods for laboratory analyses of VOCs by Method 8260B. The DPT sampling program will consist of the following sampling scheme and depths at the six off-site borings:

- Shallow groundwater samples (22-26 feet deep) at three (3) of the six DPT borings;
- Mid-depth samples (ranging from 40 to 55 feet deep) from each of the six locations; and
- Deep groundwater samples (ranging from 55 feet deep to either DPT refusal or 80 feet) at three (3) out of six boring locations.

Following sample completion, each DPT boring will be grouted to the ground surface with a cement/bentonite slurry. The DPT groundwater sample locations will be surveyed for location and elevation by a licensed, professional surveyor.

5.1.2. Install and Sample New Permanent Monitoring Wells

Additional permanent groundwater monitoring wells will be installed and sampled as part of the expanded groundwater investigation. One of the wells (intermediate depth) will be installed on the CMC property adjacent to existing well MW-4A to form a multi-depth well nest in this area. This new on-site well will have ten feet of screen and will be constructed to a maximum depth of approximately 70 feet bgs.

A potential second new monitoring well will be installed on an off-site property located east (downgradient) of the CMC property, with the intent that this well will be a new POD well for the site. The necessity of this second well, as well as its final location and depth, will be determined by analytical results of the proposed off-site DPT groundwater sampling points. If each of the off-site DPT groundwater samples have VOC concentrations below their Type 1 RRSs (or non-detect), the necessity of an off-site well will be re-evaluated at that time.

Following their installation, the new wells will be developed and professionally surveyed for location and elevation. Each of the wells will be purged and groundwater samples collected for laboratory analyses of VOCs by Method 8260.

5.2 Semi-Annual Groundwater Sampling Event

A semi-annual groundwater sampling event will be conducted in April or May 2018 in accordance with a revised groundwater sampling plan. For the next sampling event, water levels will be collected site-wide in each of the 13 site wells. Seven of the site wells will then be purged and sampled for laboratory analyses. The seven Site wells that will be sampled during the April 2018 semi-annual event include MW-4A, MW-6, MW-7a, MW-8a, MW-10, MW-11, and MW-13. These wells were either not sampled during the last (October 2017) semi-annual sampling event or they are critical source area and plume monitoring locations that are on schedule to be sampled at least once per year.

Following water level gauging, the seven wells will be purged and sampled using low-flow methods as was done during previous monitoring events. Groundwater sampling methods specified in previously approved work plans will be followed. During low-flow purging, the groundwater quality field parameters of pH, temperature, dissolved oxygen, conductivity, and oxidation-reduction potential will be measured at three- to five-minute intervals to determine groundwater stabilization. Once the groundwater field parameters are stabilized, groundwater samples will be collected from each of the seven wells and placed in laboratory-provided bottle ware. Samples will be placed on ice and shipped to a Georgia-certified laboratory for analyses of VOCs by EPA Method 8260. The following primary and quality control samples are proposed for Method 8260 VOC analyses:

- 7-Primary samples
- 1-Trip blank (provided by lab)
- 1-Blind field duplicate

If scheduling allows, the semi-annual groundwater sampling event will be conducted during the same mobilization as the off-site DPT sampling event. Purge water and decontamination water will be containerized and disposed of in accordance with local, state, and federal requirements.

5.3 Vapor Intrusion Risk Evaluation

As discussed in Section 3.4 of this report, the initial VISL screening level evaluation determined that VOCs in on-site shallow groundwater have the potential to create a groundwater-to-indoor air exposure pathway. This is especially true in the area around MW-11, which showed a HQ greater than 1 and exceedances of Target Groundwater Concentrations for TCE and benzene. To the extent practical, CMC will utilize UEC site controls to address any on-site VI concerns. As a next step, historical VOC data at MW-1 will also be evaluated for trends and a cumulative risk calculated for the areas around MW-1 and the existing occupied Site building.

For off-site properties, CMC will perform a phased VI evaluation. As discussed in Section 5.1.1., three of the off-site DPT groundwater samples will be collected from shallow (near water table) depths. These groundwater data will be evaluated in the VISL screening calculator to determine the potential risk from a groundwater-to-indoor air exposure pathway. Any subsequent off-site VI assessments will consider the VISL screening results. Potential off-site VI approaches could include installation of soil gas monitoring points and/or use of UECs if allowed by the owner.

5.4 Eighth (8th) Semi-Annual Progress Report

The 8th Semi-Annual Progress Report will include the data and results of the April 2018 semi-annual groundwater monitoring event; results of the off-site DPT sampling event (if available at that time); summary and sampling results of any new monitoring wells installed during the semi-annual period; an updated conceptual site model; responses to any EPD comments to the 6th and/or 7th Progress Reports; and any necessary updates to the VRP schedule. The next Progress Report (8th) will be submitted at the end of July 2018.

As discussed in a recent conference call with EPD, the 8th Semi-Annual Progress Report will also include a petition to continue site work under the VRP if the CSR cannot be completed by the end of July 2018 or other completion date agreed to by EPD. In this case, continuation in the VRP would be accomplished using an alternate administrative procedure.

6.0 RECOMMENDATIONS FOR FUTURE VRP ACTIVITIES

The following recommendations are made for continuing the VRP activities at the Former Loef Facility VRP site in Athens, Georgia:

- Obtain off-site access agreements and conduct an off-site DPT groundwater sampling program. Determine if subsequent phases of DPT sampling are required to delineate the VOC plume to Type 1 RRSs and to establish a new POD well.
- Install one new, on-site intermediate depth well adjacent to MW-4A.
- Based on the off-site DPT sampling results, install one new off-site monitoring well to become an alternate POD well.
- Perform another semi-annual groundwater event using the modified sampling plan presented in this progress report.
- Evaluate the potential for off-site VI exposure pathways using new off-site data.

- Submit the 8th Progress Report to EPD. This report may include a petition to EPD to continue VRP site work under an alternate administrative process. The report should also include results of the off-site DPT sampling work and any additional VI evaluation data that are available at that time.
- Prepare and submit the UECs for the on-site parcels (and off-site parcels if warranted).

Apex has included a monthly summary of hours invoiced to this project by a Georgia licensed professional geologist as **Appendix E.**

6.1 VRP Schedule of Activities

The following table presents a preliminary schedule of potential future VRP activities. Past milestone tasks already completed at the site are not included in the revised schedule. This schedule will be updated in the next Progress Report, or under separate submittal to EPD.

Table - Schedule of Future VRP Activities

VRP Task or Milestone	Estimated Start Date or Sequencing Timeframe
Initiate Off-Site Property Owner Contact/Pursue Access Agreements (underway)	January 16, 2018
Begin off-site DPT groundwater investigation (*schedule assumes access granted by March 16, 2018*)	April 2, 2018
Evaluate off-site DPT groundwater data; Determine if additional DPT sampling required to complete delineation	April 16, 2018
Perform semi-annual groundwater monitoring event using modified sampling plan in 7th Progress Report	April 23, 2018
Install and sample deeper on-site and off-site permanent monitoring wells (including new POD well); perform VI sampling if required based on initial VI screening evaluations	May 14, 2018
Submit 8th Progress Report. Include work plan for subsequent phase of groundwater investigations, if required	July 31, 2018
Petition EPD to remain in VRP using an alternate administrative process for completion (if required)	July 31, 2018 (With submittal of 8th Progress Report)
Implement alternate administrative process for VRP program completion (if required)	TBD
Submit draft and final UECs (including off-site properties if necessary)	TBD
Submit CSR with Completion Certification	July 31, 2018 or TBD
Modify RAP and implement additional remedial measures (if required for Type 1 RRS and UEC compliance)	TBD

7.0 REGISTERED PROFESSIONAL SUPPORTING DOCUMENTATION

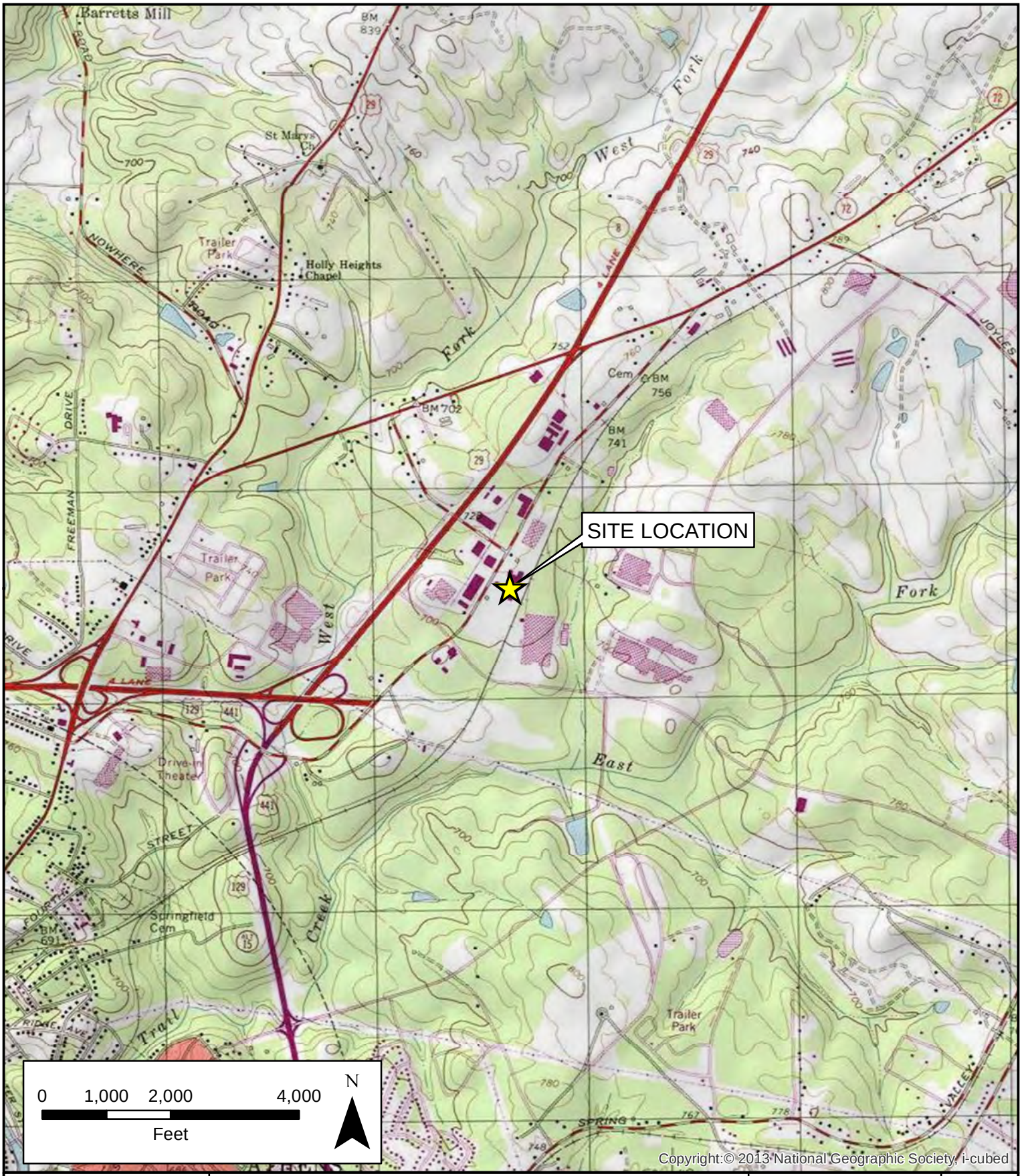
CERTIFICATION

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

Kathleen A Roush

Kathleen Roush, P.G.
Georgia Registration No. 1799

FIGURES



CHECK BY: GW	SITE LOCATION MAP	APEX	FIGURE
DRAWN BY: SP			1
DATE: 1/17/18	FORMER LOEF FACILITY		
SCALE: 1in = 2,000 ft	590 OLD HULL ROAD		
CAD NO.: 510507-001	ATHENS, GEORGIA		
PRJ NO.: 510507-001			

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DRAWN BY	SJP
DATE	1/17/18
SCALE	AS SHOWN
CAD NO.	510507-002
PRJ NO.	510507-001

SITE PLAN WITH WELL LOCATIONS

FORMER LOEF FACILITY
590 OLD HULL ROAD
ATHENS, GEORGIA

APEX

FIGURE
2

CHECK BY	SGW
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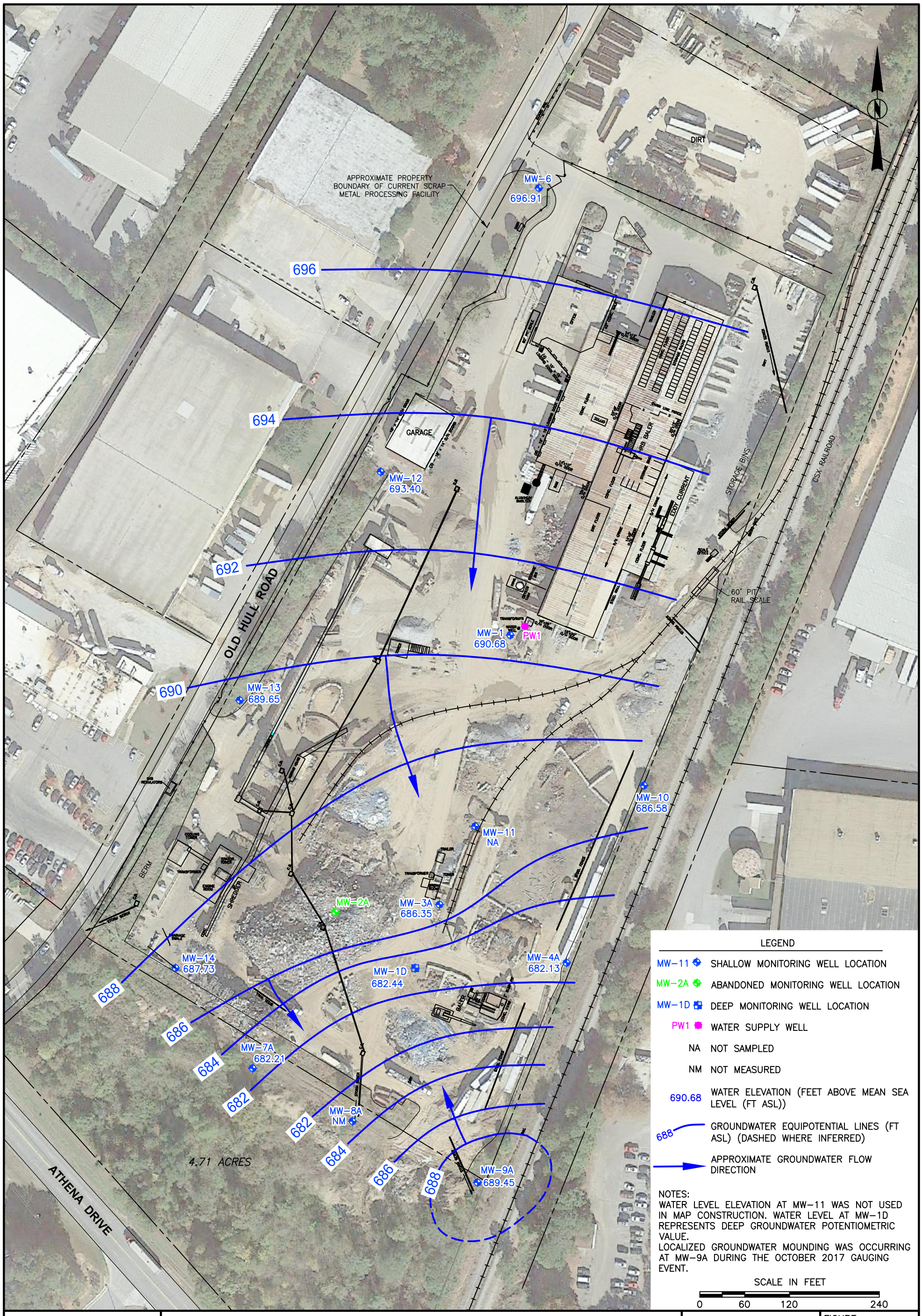
DATE	1/17/18
SCALE	AS SHOWN
CAD NO.	510507-002
PRJ NO.	510507-001

DIRECT-PUSH GROUNDWATER SAMPLE BORINGS
(OCTOBER 2017)

FORMER LOEF FACILITY
590 OLD HULL ROAD
ATHENS, GEORGIA

APEX

FIGURE
3



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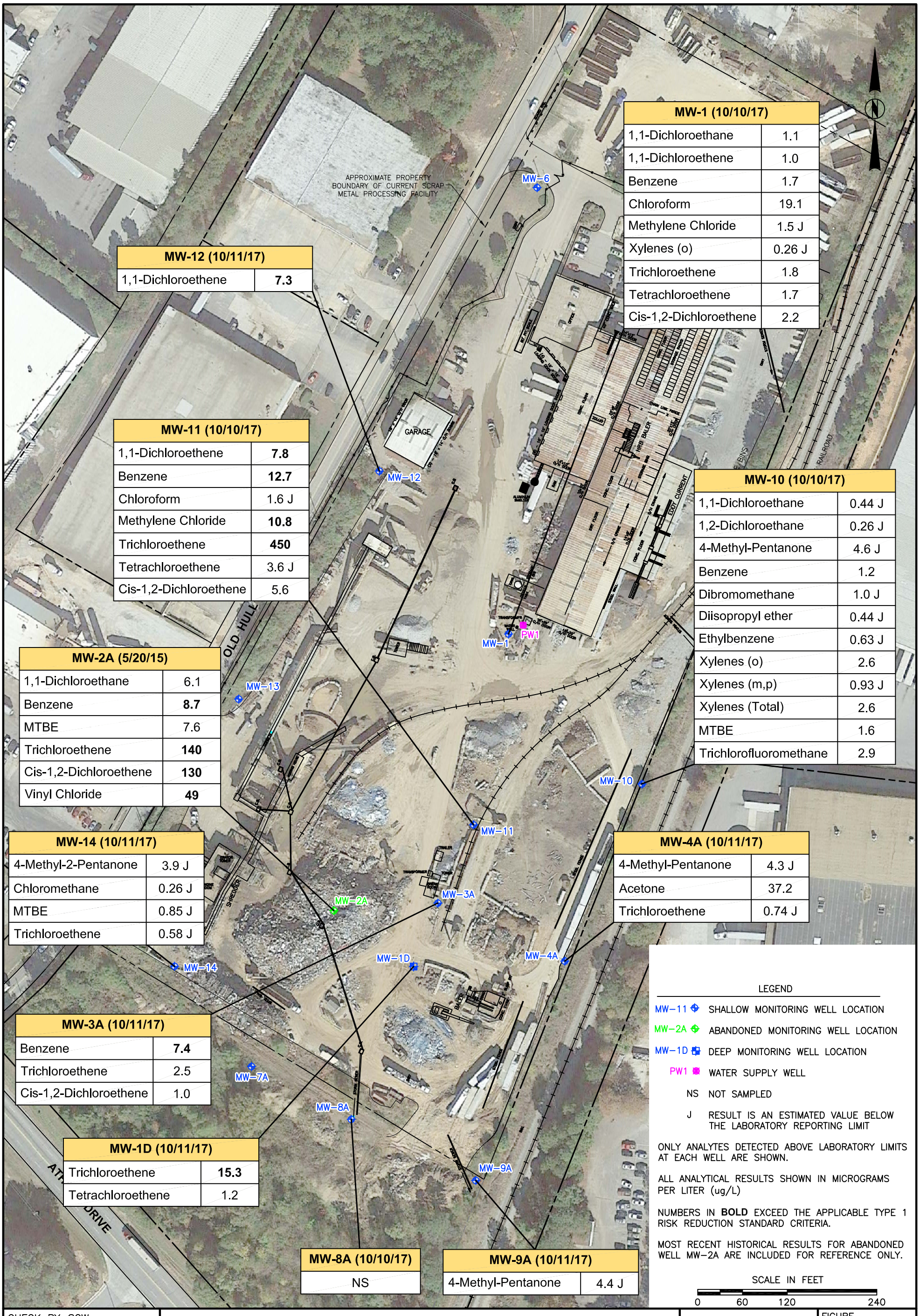
DATE	1/17/18
SCALE	AS SHOWN
CAD NO.	510507-002
PRJ NO.	510507-001

SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE MAP
(OCTOBER 10, 2017)

FORMER LOEF FACILITY
590 OLD HULL ROAD
ATHENS, GEORGIA

APEX

FIGURE
4



MW-1 (10/10/17)	
1,1-Dichloroethane	1.1
1,1-Dichloroethene	1.0
Benzene	1.7
Chloroform	19.1
Methylene Chloride	1.5 J
Xylenes (o)	0.26 J
Trichloroethene	1.8
Tetrachloroethene	1.7
Cis-1,2-Dichloroethene	2.2

MW-12 (10/11/17)	
1,1-Dichloroethene	**7.3**

MW-11 (10/10/17)	
1,1-Dichloroethene	**7.8**
Benzene	**12.7**
Chloroform	1.6 J
Methylene Chloride	**10.8**
Trichloroethene	**450**
Tetrachloroethene	3.6 J
Cis-1,2-Dichloroethene	5.6

MW-10 (10/10/17)	
1,1-Dichloroethane	0.44 J
1,2-Dichloroethane	0.26 J
4-Methyl-Pentanone	4.6 J
Benzene	1.2
Dibromomethane	1.0 J
Diisopropyl ether	0.44 J
Ethylbenzene	0.63 J
Xylenes (o)	2.6
Xylenes (m,p)	0.93 J
Xylenes (Total)	2.6
MTBE	1.6
Trichlorofluoromethane	2.9

MW-2A (5/20/15)	
1,1-Dichloroethane	6.1
Benzene	**8.7**
MTBE	7.6
Trichloroethene	**140**
Cis-1,2-Dichloroethene	**130**
Vinyl Chloride	**49**

MW-14 (10/11/17)	
4-Methyl-2-Pentanone	3.9 J
Chloromethane	0.26 J
MTBE	0.85 J
Trichloroethene	0.58 J

MW-4A (10/11/17)	
4-Methyl-Pentanone	4.3 J
Acetone	37.2
Trichloroethene	0.74 J

MW-3A (10/11/17)	
Benzene	**7.4**
Trichloroethene	2.5
Cis-1,2-Dichloroethene	1.0

MW-1D (10/11/17)	
Trichloroethene	**15.3**
Tetrachloroethene	1.2

MW-8A (10/10/17)
NS

MW-9A (10/11/17)	
4-Methyl-Pentanone	4.4 J

LEGEND

- MW-11 — SHALLOW MONITORING WELL LOCATION
- MW-2A — ABANDONED MONITORING WELL LOCATION
- MW-1D — DEEP MONITORING WELL LOCATION
- PW1 — WATER SUPPLY WELL
- NS — NOT SAMPLED
- J — RESULT IS AN ESTIMATED VALUE BELOW THE LABORATORY REPORTING LIMIT

ONLY ANALYTES DETECTED ABOVE LABORATORY LIMITS AT EACH WELL ARE SHOWN.

ALL ANALYTICAL RESULTS SHOWN IN MICROGRAMS PER LITER (ug/L)

NUMBERS IN **BOLD** EXCEED THE APPLICABLE TYPE 1 RISK REDUCTION STANDARD CRITERIA.

MOST RECENT HISTORICAL RESULTS FOR ABANDONED WELL MW-2A ARE INCLUDED FOR REFERENCE ONLY.

SCALE IN FEET

0 60 120 240

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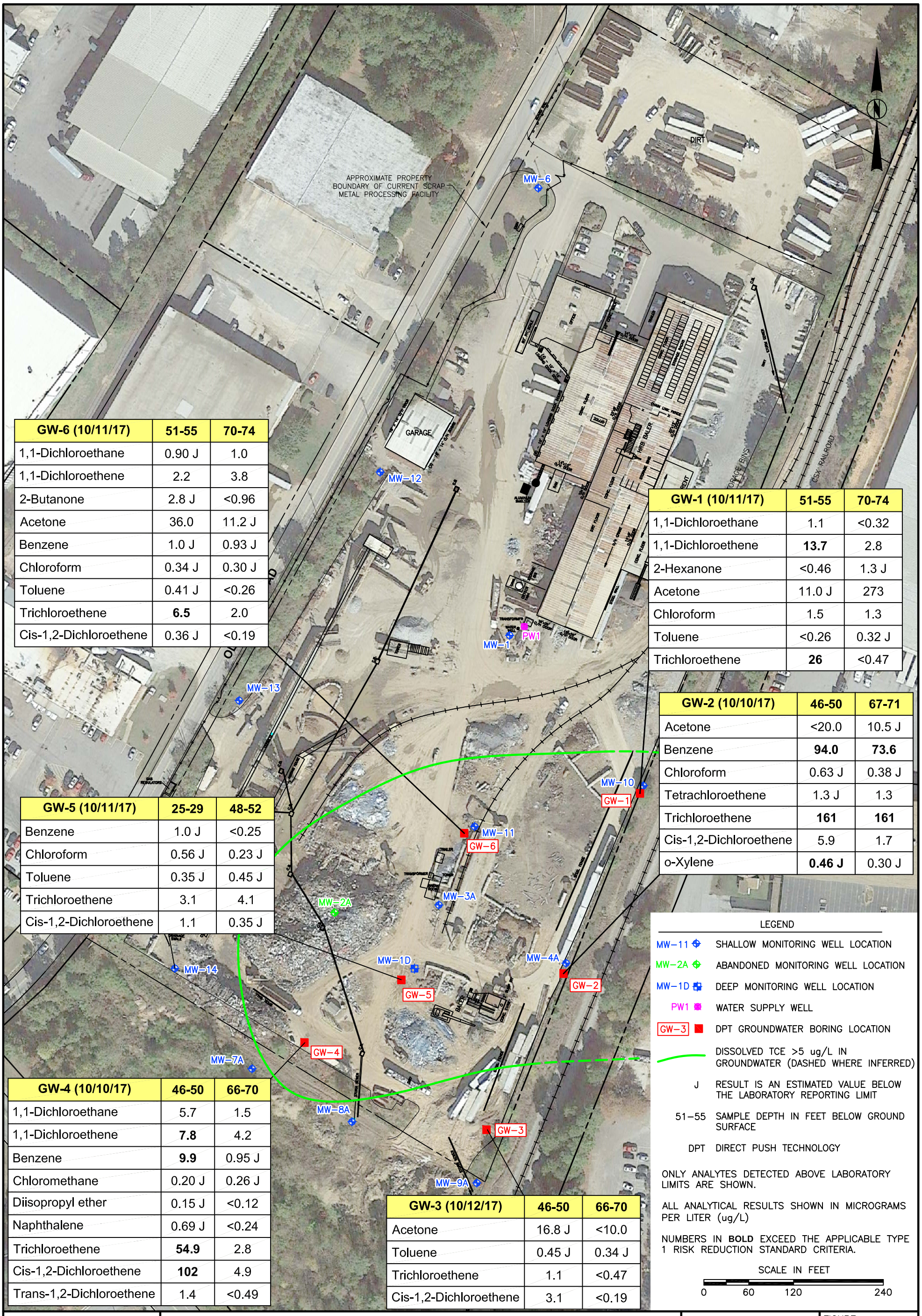
DATE	1/17/18
SCALE	AS SHOWN
CAD NO.	510507-002
PRJ NO.	510507-001

GROUNDWATER ANALYTICAL RESULTS: MONITORING WELLS
(OCTOBER 2017)

FORMER LOEF FACILITY
590 OLD HULL ROAD
ATHENS, GEORGIA

APEX

FIGURE
5



GW-6 (10/11/17)	51-55	70-74
1,1-Dichloroethane	0.90 J	1.0
1,1-Dichloroethene	2.2	3.8
2-Butanone	2.8 J	<0.96
Acetone	36.0	11.2 J
Benzene	1.0 J	0.93 J
Chloroform	0.34 J	0.30 J
Toluene	0.41 J	<0.26
Trichloroethene	**6.5**	2.0
Cis-1,2-Dichloroethene	0.36 J	<0.19

GW-1 (10/11/17)	51-55	70-74
1,1-Dichloroethane	1.1	<0.32
1,1-Dichloroethene	**13.7**	2.8
2-Hexanone	<0.46	1.3 J
Acetone	11.0 J	273
Chloroform	1.5	1.3
Toluene	<0.26	0.32 J
Trichloroethene	**26**	<0.47

GW-2 (10/10/17)	46-50	67-71
Acetone	<20.0	10.5 J
Benzene	**94.0**	**73.6**
Chloroform	0.63 J	0.38 J
Tetrachloroethene	1.3 J	1.3
Trichloroethene	**161**	**161**
Cis-1,2-Dichloroethene	5.9	1.7
o-Xylene	**0.46 J**	0.30 J

GW-5 (10/11/17)	25-29	48-52
Benzene	1.0 J	<0.25
Chloroform	0.56 J	0.23 J
Toluene	0.35 J	0.45 J
Trichloroethene	3.1	4.1
Cis-1,2-Dichloroethene	1.1	0.35 J

GW-4 (10/10/17)	46-50	66-70
1,1-Dichloroethane	5.7	1.5
1,1-Dichloroethene	**7.8**	4.2
Benzene	**9.9**	0.95 J
Chloromethane	0.20 J	0.26 J
Diisopropyl ether	0.15 J	<0.12
Naphthalene	0.69 J	<0.24
Trichloroethene	**54.9**	2.8
Cis-1,2-Dichloroethene	**102**	4.9
Trans-1,2-Dichloroethene	1.4	<0.49

GW-3 (10/12/17)	46-50	66-70
Acetone	16.8 J	<10.0
Toluene	0.45 J	0.34 J
Trichloroethene	1.1	<0.47
Cis-1,2-Dichloroethene	3.1	<0.19

LEGEND

- MW-11 — SHALLOW MONITORING WELL LOCATION
- MW-2A — ABANDONED MONITORING WELL LOCATION
- MW-1D — DEEP MONITORING WELL LOCATION
- PW1 — WATER SUPPLY WELL
- GW-3 — DPT GROUNDWATER BORING LOCATION
- DISSOLVED TCE >5 ug/L IN GROUNDWATER (DASHED WHERE INFERRED)
- J — RESULT IS AN ESTIMATED VALUE BELOW THE LABORATORY REPORTING LIMIT
- 51–55 — SAMPLE DEPTH IN FEET BELOW GROUND SURFACE
- DPT — DIRECT PUSH TECHNOLOGY

ONLY ANALYTES DETECTED ABOVE LABORATORY LIMITS ARE SHOWN.

ALL ANALYTICAL RESULTS SHOWN IN MICROGRAMS PER LITER (ug/L)

NUMBERS IN **BOLD** EXCEED THE APPLICABLE TYPE 1 RISK REDUCTION STANDARD CRITERIA.

SCALE IN FEET

0 60 120 240

CHECK BY	SGW
DRAWN BY	SJP
DATE	1/17/18
SCALE	AS SHOWN
CAD NO.	510507-002
PRJ NO.	510507-001

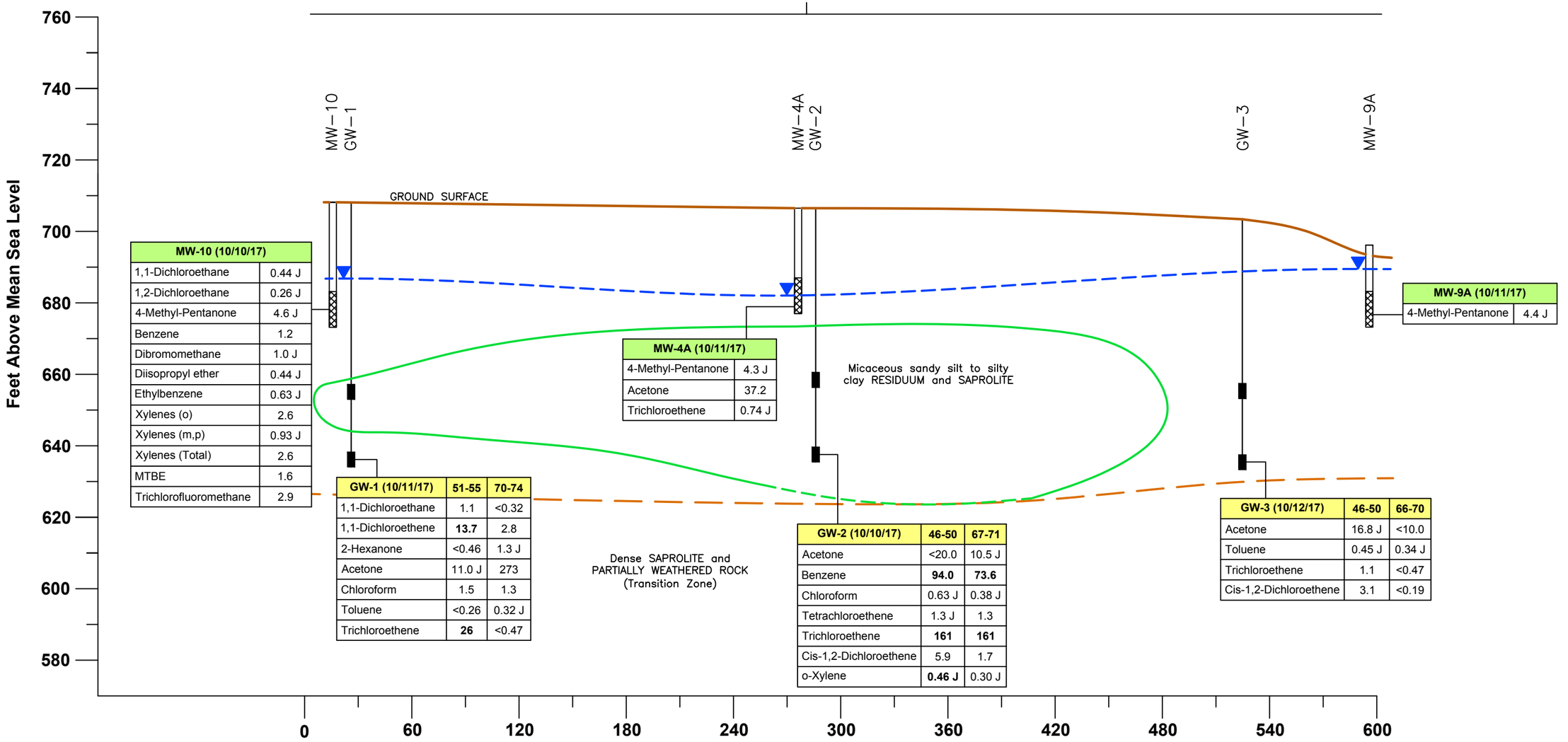
DPT GROUNDWATER ANALYTICAL RESULTS
(OCTOBER 2017)

FORMER LOEF FACILITY
590 OLD HULL ROAD
ATHENS, GEORGIA

APEX

FIGURE
6

A Northeast — A' Southwest



MW-10 (10/10/17)	
1,1-Dichloroethane	0.44 J
1,2-Dichloroethane	0.26 J
4-Methyl-Pentanone	4.6 J
Benzene	1.2
Dibromomethane	1.0 J
Diisopropyl ether	0.44 J
Ethylbenzene	0.63 J
Xylenes (o)	2.6
Xylenes (m,p)	0.93 J
Xylenes (Total)	2.6
MTBE	1.6
Trichlorofluoromethane	2.9

MW-4A (10/11/17)	
4-Methyl-Pentanone	4.3 J
Acetone	37.2
Trichloroethene	0.74 J

MW-9A (10/11/17)	
4-Methyl-Pentanone	4.4 J

GW-1 (10/11/17)	51-55	70-74
1,1-Dichloroethane	1.1	<0.32
1,1-Dichloroethene	**13.7**	2.8
2-Hexanone	<0.46	1.3 J
Acetone	11.0 J	273
Chloroform	1.5	1.3
Toluene	<0.26	0.32 J
Trichloroethene	**26**	<0.47

GW-2 (10/10/17)	46-50	67-71
Acetone	<20.0	10.5 J
Benzene	**94.0**	**73.6**
Chloroform	0.63 J	0.38 J
Tetrachloroethene	1.3 J	1.3
Trichloroethene	**161**	**161**
Cis-1,2-Dichloroethene	5.9	1.7
o-Xylene	**0.46 J**	0.30 J

GW-3 (10/12/17)	46-50	66-70
Acetone	16.8 J	<10.0
Toluene	0.45 J	0.34 J
Trichloroethene	1.1	<0.47
Cis-1,2-Dichloroethene	3.1	<0.19

LEGEND

- DIRECT PUSH BORING AND SAMPLE DEPTH
- MONITORING WELL AND SCREENED INTERVAL
- APPROXIMATE GROUNDWATER TABLE
- DISSOLVED PHASE TCE (>5 ug/L)
- LITHOLOGIC CONTACT (DASHED WHERE ESTIMATED OR INFERRED)
- J ESTIMATED CONCENTRATION
- TCE TRICHLOROETHENE

NOTES:

LITHOLOGIC INTERPRETATIONS AND DEPTH INTERVALS ESTIMATED FROM HISTORICAL SOIL BORING LOGS AND GEOLOGIC CROSS SECTIONS (DASHED WHERE INFERRED).

ONLY ANALYTES DETECTED ABOVE LABORATORY LIMITS ARE SHOWN.

ALL ANALYTICAL RESULTS SHOWN IN MICROGRAMS PER LITER (ug/L).

NUMBERS IN **BOLD** EXCEED THE APPLICABLE TYPE 1 RISK REDUCTION STANDARD CRITERIA.

CHECK BY	GW
DRAWN BY	SP
DATE	1/17/18
SCALE	AS SHOWN
CAD NO.	510507–001
PRJ NO.	510507–001

A–A' CROSS SECTION

FORMER LOEF FACILITY
590 OLD HULL ROAD
ATHENS, GEORGIA

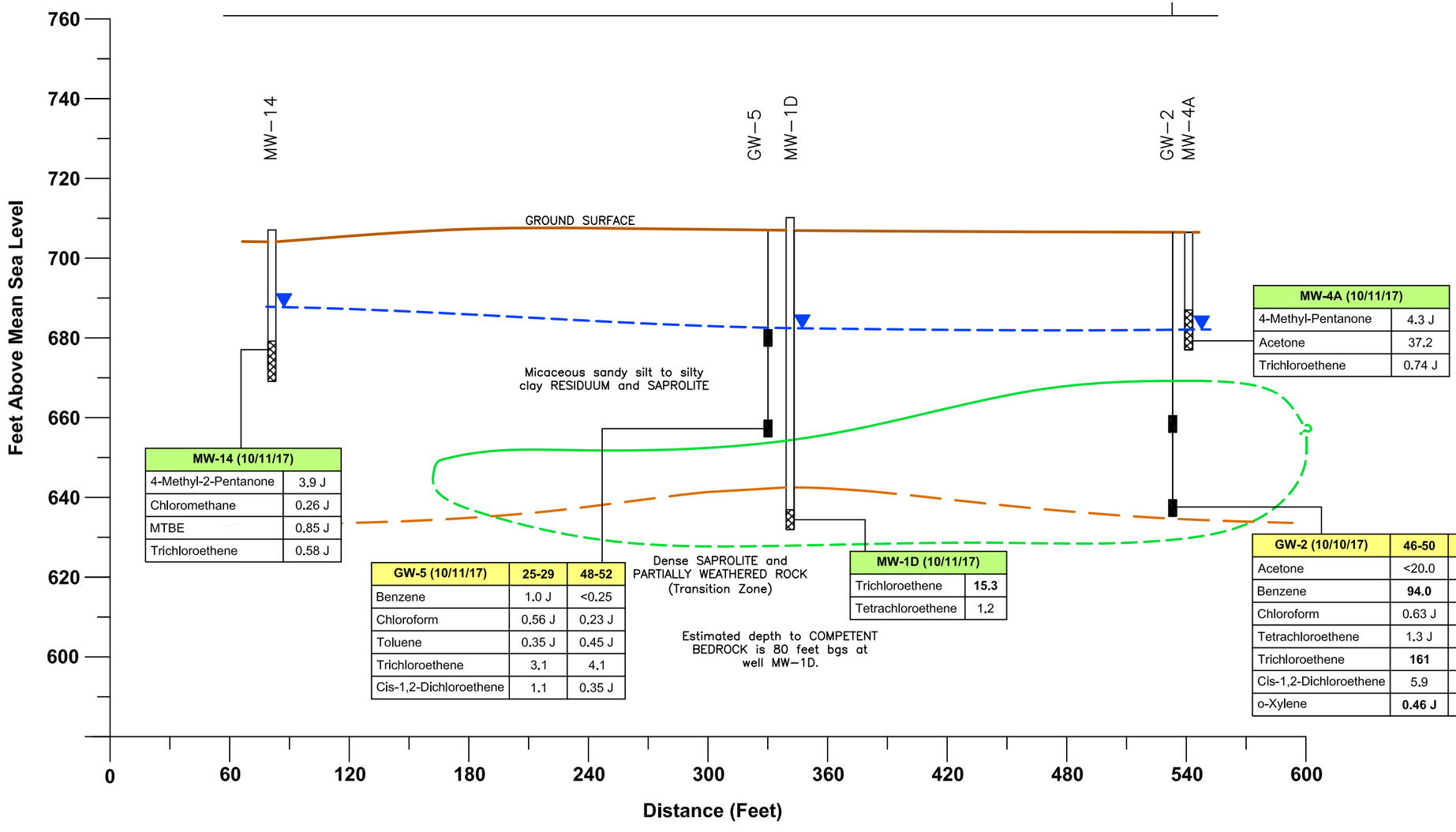
APEX

FIGURE 7

B West

B' East

A–A'



MW-14 (10/11/17)	
4-Methyl-2-Pentanone	3.9 J
Chloromethane	0.26 J
MTBE	0.85 J
Trichloroethene	0.58 J

GW-5 (10/11/17)	25-29	48-52
Benzene	1.0 J	<0.25
Chloroform	0.56 J	0.23 J
Toluene	0.35 J	0.45 J
Trichloroethene	3.1	4.1
Cis-1,2-Dichloroethene	1.1	0.35 J

MW-1D (10/11/17)	
Trichloroethene	**15.3**
Tetrachloroethene	1.2

MW-4A (10/11/17)	
4-Methyl-Pentanone	4.3 J
Acetone	37.2
Trichloroethene	0.74 J

GW-2 (10/10/17)	46-50	67-71
Acetone	<20.0	10.5 J
Benzene	**94.0**	**73.6**
Chloroform	0.63 J	0.38 J
Tetrachloroethene	1.3 J	1.3
Trichloroethene	**161**	**161**
Cis-1,2-Dichloroethene	5.9	1.7
o-Xylene	**0.46 J**	0.30 J

LEGEND

- DIRECT PUSH BORING AND SAMPLE DEPTH
- MONITORING WELL AND SCREENED INTERVAL
- APPROXIMATE GROUNDWATER TABLE
- DISSOLVED PHASE TCE (>5 ug/L)
- LITHOLOGIC CONTACT (DASHED WHERE ESTIMATED OR INFERRED)
- J ESTIMATED CONCENTRATION
- TCE TRICHLOROETHENE

NOTES:

LITHOLOGIC INTERPRETATIONS AND DEPTH INTERVALS ESTIMATED FROM HISTORICAL SOIL BORING LOGS AND GEOLOGIC CROSS SECTIONS (DASHED WHERE INFERRED).

ONLY ANALYTES DETECTED ABOVE LABORATORY LIMITS ARE SHOWN.

ALL ANALYTICAL RESULTS SHOWN IN MICROGRAMS PER LITER (ug/L).

NUMBERS IN **BOLD** EXCEED THE APPLICABLE TYPE 1 RISK REDUCTION STANDARD CRITERIA.

CHECK BY	GW
DRAWN BY	SP
DATE	1/17/18
SCALE	AS SHOWN
CAD NO.	510507–001
PRJ NO.	510507–001

B–B' CROSS SECTION

FORMER LOEF FACILITY
590 OLD HULL ROAD
ATHENS, GEORGIA

APEX

FIGURE

8

CHECK BY: GW	PROPOSED OFF-SITE DPT GROUNDWATER BORINGS	FIGURE
DRAWN BY: SP		
DATE: 1/17/18	FORMER LOEF FACILITY 590 OLD HULL ROAD ATHENS, GEORGIA	9
SCALE: 1in = 200 ft		
CAD NO.: 510507-001		
PRJ NO.: 510507-001		

TABLES

TABLE 1
GROUNDWATER SAMPLING AND ANALYTICAL PROGRAM: OCTOBER 2017
FORMER LOEF FACILITY
ATHENS, CLARK COUNTY, GEORGIA

Monitoing Well ID	Water Level	pH	Temperature	Conductivity	Dissolved Oxygen	Oxidation-Reduction Potential	Turbidity	VOCs (Method 8260)
	FIELD-MEASURED WATER QUALITY PARAMETERS							LABORATORY ANALYSES
MW-1	X	X	X	X	X	X	X	X
MW-1D	X	X	X	X	X	X	X	X
MW-3A	X	X	X	X	X	X	X	X
MW-4A	X	X	X	X	X	X	X	X
MW-6*	X							
MW-7A	X							
MW-8A**								
MW-9A	X	X	X	X	X	X	X	X
MW-10	X	X	X	X	X	X	X	X
MW-11	X	X	X	X	X	X	X	X
MW-12	X	X	X	X	X	X	X	X
MW-13	X							
MW-14	X	X	X	X	X	X	X	X
QA/QC and IDW Samples								
Field Duplicates								X
Field Blank								
Trip Blank								X

NOTES:

* MW-6 is the Site background well

** MW-8 was not guaged or sampled (no access to well due to flooding)

mV = Millivolts

SU = Standard Units

^{o}C = Degrees centigrade

mS/cm = Millisiemens per centimeter

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ELEVATIONS
FORMER LOEF FACILITY
ATHENS, CLARK COUNTY, GEORGIA

Well Number	Date Measured	TOC Elevation (ft MSL)	Screen Interval (ft BGS)	Depth to Water (ft BTOC)	Water Table Elevation (ft MSL)
MW-1	5/18/2015	NS	14 to 24 ft	22.87	--
	5/21/2015	711.50		18.52	692.98
	6/3/2015			19.53	691.97
	4/25/2016			18.43	693.07
	11/16/2016			21.54	689.96
	10/10/2017			20.82	690.68
MW-1D	5/21/2015	710.17	70 to 75 ft	22.18	687.99
	6/3/2015			26.75	683.42
	4/25/2016			25.36	684.81
	11/16/2016			30.45	679.72
	10/10/2017			27.73	682.44
MW-2A*	5/9/2006	710.20	23.15 to 33.15 ft	21.50	688.70
	6/17/2009			22.87	687.33
	6/24/2010			21.00	689.20
	2/24/2011			18.05	692.15
	8/4/2011*	706.70	20 to 30 ft	18.00	688.70
	2/24/2012			19.13	687.57
	9/20/2012			18.89	687.81
	3/7/2013			NM	NM
	3/7/2013			NM	NM
	1/21/2015	706.26		18.15	688.11
	5/18/2015			16.86	689.40
MW-3A	5/9/2006	712.23	20 to 30 ft	25.44	686.79
	6/17/2009			26.79	685.44
	6/24/2010			24.82	687.41
	2/24/2011			25.15	687.08
	8/4/2011			26.15	686.08
	2/24/2012			26.83	685.40
	9/20/2012			26.76	685.47
	3/7/2013			25.72	686.51
	1/22/2015	712.20		25.59	686.61
	5/18/2015			24.31	687.89
	4/25/2016			23.30	688.90
	11/16/2016			27.08	685.12
	5/5/2017			26.38	685.82
	10/10/2017			25.85	686.35
MW-4A	5/9/2006	709.18	19.5 to 29.5 ft	27.10	682.08
	6/17/2009			24.76	684.42
	6/24/2010			23.21	685.97
	2/24/2011			22.94	686.24
	8/4/2011			25.49	683.69
	2/24/2012			24.77	684.41
	9/20/2012			24.84	684.34
	3/7/2013			22.96	686.22
	1/22/2015	706.08		23.34	682.74
	5/18/2015			22.21	683.87
	4/25/2016			21.78	684.30
	11/16/2016			26.70	679.38
	5/5/2017			24.26	681.82
	10/10/2017			23.95	682.13
MW-6	6/22/2006	720.15	20 to 30 ft	21.67	698.48
	6/17/2009			23.00	697.15
	6/24/2010			20.42	699.73
	2/24/2011			20.62	699.53
	8/4/2011			20.50	699.65
	2/24/2012			22.90	697.25
	9/20/2012			23.81	696.34
	3/7/2013			22.38	697.77
	1/22/2015	719.87		22.36	697.51
	5/18/2015			20.54	699.33
	4/25/2016			19.28	700.59
	11/16/2016			23.75	696.12
	10/10/2017			22.96	696.91

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ELEVATIONS
FORMER LOEF FACILITY
ATHENS, CLARK COUNTY, GEORGIA

Well Number	Date Measured	TOC Elevation (ft MSL)	Screen Interval (ft BGS)	Depth to Water (ft BTOC)	Water Table Elevation (ft MSL)
MW-7A	5/9/2006	696.08	9.5 to 19.5 ft	15.09	680.99
	6/17/2009			15.47	680.61
	6/24/2010			12.46	683.62
	2/24/2011			12.81	683.27
	8/4/2011			18.05	678.03
	2/24/2012			14.51	681.57
	9/20/2012			15.52	680.56
	3/7/2013			11.97	684.11
	1/22/2015	697.15		12.61	684.54
	5/18/2015			13.05	684.10
	4/25/2016			12.52	684.63
	11/16/2016			18.90	678.25
	5/5/2017			13.52	683.63
	10/10/2017			14.94	682.21
MW-8A	5/9/2006	695.23	9.5 to 19.5 Ft	12.49	682.74
	6/17/2009			14.02	681.21
	6/24/2010			11.30	683.93
	2/24/2011			11.54	683.69
	8/4/2011			16.87	678.36
	2/24/2012			12.93	682.30
	9/20/2012			13.89	681.34
	3/7/2013			10.91	684.32
	1/22/2015	695.26		11.39	683.87
	5/18/2015			11.75	683.51
	4/25/2016			11.39	683.87
	11/16/2016			17.96	677.30
	5/5/2017			12.04	683.22
	10/10/2017			NM[/A]	NM[/A]
MW-9A	5/9/2006	697.13	10 to 20 Ft	13.91	683.22
	6/17/2009			16.51	680.62
	6/24/2010			12.79	684.34
	2/24/2010			12.65	684.48
	8/4/2011			19.80	677.33
	2/24/2012			11.21	685.92
	9/20/2012			10.46	686.67
	3/7/2013			10.21	686.92
	1/22/2015	696.14		12.42	683.72
	5/18/2015			13.58	682.56
	4/25/2016			13.18	682.96
	11/16/2016			21.18	674.96
	5/5/2017			8.97	687.17
	10/10/2017			6.69	689.45
MW-10**	3/7/2013	NS	25 to 35 Ft	20.86	NS
	1/22/2015	708.16		21.28	686.88
	5/18/2015			20.23	687.93
	4/25/2016			19.72	688.44
	11/16/2016			23.82	684.34
	5/5/2017			22.34	685.82
	10/10/2017			21.58	686.58
MW-11	3/7/2013	NS	25 to 35 Ft	25.37	NS
	1/22/2015	713.32		25.30	688.02
	5/18/2015			24.14	689.18
	4/25/2016			23.06	690.26
	11/16/2016			26.22	687.10
	10/10/2017[/B]			22.13	691.19[/B]
MW-12	3/7/2013	NS	25 to 35 Ft	15.81	NS
	1/22/2015	712.70		18.61	694.09
	5/18/2015			17.53	695.17
	4/25/2016			16.86	695.84
	11/16/2016			19.27	693.43
	10/10/2017			19.30	693.40

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ELEVATIONS
FORMER LOEF FACILITY
ATHENS, CLARK COUNTY, GEORGIA

Well Number	Date Measured	TOC Elevation (ft MSL)	Screen Interval (ft BGS)	Depth to Water (ft BTOC)	Water Table Elevation (ft MSL)
MW-13	3/7/2013	NS	25 to 35 Ft	17.29	NS
	1/22/2015	707.45		17.49	689.96
	5/18/2015			16.30	691.15
	4/25/2016			15.25	692.20
	11/16/2016			18.62	688.83
	10/10/2017			17.80	689.65
MW-14	3/7/2013	NS	25 to 35 Ft	18.78	NS
	1/22/2015	707.07		19.18	687.89
	5/18/2015			NM	--
	4/25/2016			16.23	690.84
	11/16/2016			21.18	685.89
	10/10/2017			19.34	687.73

Notes:

TOC = Top of Casing

BTOC = Below Top of Casing

ft BGS = feet Below Ground Surface

ft MSL - feet Mean Sea Level

NM = MW-2A was inaccessible in March 2013, so groundwater was not gauged in the well during that event.

NS = Not Surveyed. Wells MW-10 thru MW-14 were installed in December 2013 and were surveyed in January 2015.

Apex resurveyed all wells in January 2015 except MW-1 and MW-1D, which were surveyed in July 2016.

* - MW-2A was reinstalled and surveyed on March 18, 2011 then permanently abandoned in May 2015

**- Top of casing cut by Apex prior to survey

/A - MW-8A was inaccessible and could not be gauged during the October 2017 sampling event

/B - MW-11 stickup casing is damaged. The October 10, 2017 value is not accurate; well needs to be repaired and re-surveyed

TABLE 3
GROUNDWATER BIO-GEOCHEMICAL, INORGANIC AND WATER QUALITY PARAMETERS
FORMER LOEF FACILITY
ATHENS, CLARKE COUNTY, GEORGIA

Monitoing Well ID	Date	pH	Temperature (°C)	Conductivity (mS/cm)	Total Dissolved Solids (g/L)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Total Organic Carbon	Iron II	Chloride	Nitrate	Sulfate	Sulfide
		FIELD-MEASURED PARAMETERS							LABORATORY-MEASURED ANALYTICAL RESULTS (mg/L)								
MW-1	6/3/2015	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	4/26/2016	5.17	22.93	0.07	NM	0.61	99	1.7	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/17/2016	5.32	22.19	0.058	NM	2.54	154	0.9	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/10/2017	6.09	26.78	0.063	NM	0.83	184.9	6.3	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-1D	6/3/2015	NM	NM	NM	NM	NM	NM		NM	NM	NM	NM	NM	NM	NM	NM	NM
	4/26/2016	5.54	24.78	0.079	NM	1.52	121	0.8	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/17/2016	4.84	16.96	0.078	NM	2.67	264	1.7	NM	NM	NM	<1.0	NM	NM	NM	NM	NM
	10/11/2017	11.54	25.49	0.098	NM	2.05	160.3	8.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-2A	6/24/2010	4.65	18.1	0.581	0.037	10.2	450		3.2	0.16	<0.007	8.2	7.25	NM	0.49	<1	<2
	8/4/2011	5.45	20.78	0.295	NM	0.54	10		3.1	0.78	<0.007	60.8	47	NM	0.25	<1	<2
	2/24/2012	6.05	19.54	0.903	NM	0	-67		NM	NM	NM	NM	NM	NM	NM	NM	NM
	9/20/2012	5.25	22.42	0.91	NM	2.05	-9		NM	NM	NM	NM	NM	NM	NM	NM	NM
	3/8/2013	5.25	22.42	0.91	NM	2.05	-9	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	1/22/2015	4.76	17.3	0.568	NM	0.58	73.5	6	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-3A	6/24/2010	4.63	19.2	0.852	0.054	9.64	398		4.2	0.36	<0.007	2.34	<0.1	NM	1.8	2	<2
	8/4/2011	4.4	20.94	0.57	NM	1.34	301		1.7	0.12	<0.007	1.42	<0.1	NM	1.7	<1	<2
	2/24/2012	5.13	20.01	0.06	NM	1.91	327		NM	NM	NM	NM	NM	NM	NM	NM	NM
	9/20/2012	4.21	22.44	0.067	NM	1.57	349		NM	NM	NM	NM	NM	NM	NM	NM	NM
	3/8/2013	4.21	22.44	0.067	NM	1.57	349	0.02	NM	NM	NM	NM	NM	NM	NM	NM	NM
	1/22/2015	4.63	19.51	0.075	NM	0.5	103.2	0.38	NM	NM	NM	NM	NM	NM	NM	NM	NM
	4/26/2016	5.11	23.08	0.133	NM	1.53	185	7.7	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/17/2016	3.67	17.85	0.065	NM	1.52	410	2.3	1,200	91	<10	1.4	NM	NM	NM	NM	NM
	5/5/2017	4.58	17.9	0.075	NM	0.67	455	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/11/2017	4.85	22.35	0.101	NM	1.03	562	20.3	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-4A	6/24/2010	4.66	18.8	0.164	0.11	9.54	414		0.34	0.029	<0.007	2.98	<0.1	NM	0.88	1.9	<2
	8/4/2011	4.62	21.76	0.093	NM	2.1	330		0.44	0.026	<0.007	<5	<0.1	NM	0.84	1.7	<2
	2/24/2012	4.77	19.13	0.117	NM	0.00	377		NM	NM	NM	NM	NM	NM	NM	NM	NM
	9/20/2012	4.16	22.98	0.134	NM	2.28	425		NM	NM	NM	NM	NM	NM	NM	NM	NM
	3/7/2013	4.16	22.98	0.134	NM	2.28	425	0	NM	NM	NM	NM	NM	NM	NM	NM	NM
	1/22/2015	4.26	18.06	0.196	NM	0.96	126.3	1.61	<4	<9	<7	<1	NM	44	1	1.3	<2
	4/26/2016	4.33	21.26	0.339	NM	1.77	225	0.8	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/17/2016	3.84	20.93	0.089	NM	1.68	368	0	NM	NM	NM	NM	NM	NM	NM	NM	NM
	5/5/2017	4.29	16.1	0.168	NM	1.00	384	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/11/2017	7.67	23.78	0.689	NM	1.86	183.8	8.1	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-6*	6/24/2010	4.9	19.7	0.044	0.03	10.5	443		<0.004	<0.009	<0.007	1.79	<0.1	NM	0.44	<1	<2
	8/4/2011	4.25	19.7	0.03	NM	8.51	366		<0.004	<0.009	<0.007	<1	<0.1	NM	0.43	<1	<2
	2/24/2012	4.77	20.37	0.03	NM	3.75	354		NM	NM	NM	NM	NM	NM	NM	NM	NM
	9/20/2012	4.26	22.69	0.051	NM	4.72	681		NM	NM	NM	NM	NM	NM	NM	NM	NM
	3/7/2013	4.87	18.87	0.03	NM	5.51	359	0	<0.004	<0.009	<0.007	<1	NM	5.4	0.42	1.2	<2
	1/21/2015	4.48	19.5	0.048	NM	3.53	123.6	0.92	NM	NM	NM	NM	NM	NM	NM	NM	NM
	4/26/2016	4.39	20.12	0.049	NM	5.7	208	0.4	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-7A	3/8/2013	5.23	18.67	0.463	NM	3.44	301	7.23	NM	NM	NM	NM	NM	NM	NM	NM	NM
	1/22/2015	4.89	14.9	0.445	NM	0.61	195.3	3.13	NM	NM	NM	NM	NM	NM	NM	NM	
	4/25/2016	5.54	22.78	0.428	NM	0.8	201	0.1	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/16/2016	5.08	24.26	0.303	NM	3.15	146	0	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-8A	3/8/2013	5.37	18.33	0.83	NM	2.25	163	8.2	NM	NM	NM	NM	NM	NM	NM	NM	<2
	1/22/2015	5.72	16.6	0.714	NM	0.56	130.7	5.7	830	<9	<7	12.2	NM	23	<0.25	210	
	4/26/2016	6.57	19.3	0.737	NM	0.8	72	57	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/16/2016	4.74	22.08	0.554	NM	1.23	173	2.3	210	<10	<10	20	NM	NM	NM	NM	NM
	10/11/2017	NS - inaccessible															
MW-9A	3/8/2013	5.56	18.65	0.676	NM	4.3	82	6.88	NM	NM	NM	NM	NM	NM	NM	NM	<2
	1/22/2015	6.04	14.91	0.658	NM	0.71	14.3	0.24	11	<9	<7	8.69	NM	12	<0.25	97	
	4/26/2016	6.74	20.45	0.569	NM	0.65	40	36	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/16/2016	6.36	19.55	0.567	NM	2.22	-32	0	6.1 J	<10	<10	9.2	NM	NM	NM	NM	NM
	10/11/2017	7.04	27.04	0.547	NM	0.96	150.1	6.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10	3/7/2013	4.44	20.27	0.142	NM	1.45	503	0.62	NM	NM	NM	NM	NM	NM	NM	NM	NM
	1/22/2015	4.18	17.7	0.143	NM	1.06	106.3	4	NM	NM	NM	NM	NM	NM	NM	NM	
	4/25/2016	4.67	21.97	0.223	NM	2.3	547	2.1	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/17/2016	4.73	20.84	0.196	NM	2.22	274	0	NM	NM	NM	NM	NM	NM	NM	NM	NM
	5/5/2017	4.56	16.1	0.155	NM	0.87	474	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/10/2017	6.11	21.86	0.165	NM	1.46	473.8	8.5	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-11	3/8/2013	4.53	21.26	0.058	NM	1.09	414	1.28	NM	NM	NM	NM	NM	NM	NM	NM	<2
	1/22/2015	4.31	18.5	0.052	NM	1.85	120.6	0.65	3,600	330	<7	2.5	NM	4.8	2.1	<1	
	4/26/2016	4.75	24.28	0.06	NM	0.74	240	3.8	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/17/2016	4.89	15.21	0.056	NM	3.76	247	3.5	2,000	92	<10	1.0	NM	NM	NM	NM	NM
	10/10/2017	8.15	22.68	0.063	NM	0.93	272.6	33.1	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 3
GROUNDWATER BIO-GEOCHEMICAL, INORGANIC AND WATER QUALITY PARAMETERS
FORMER LOEF FACILITY
ATHENS, CLARKE COUNTY, GEORGIA

Monitoing Well ID	Date	pH	Temperature (°C)	Conductivity (mS/cm)	Total Dissolved Solids (g/L)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Total Organic Carbon	Iron II	Chloride	Nitrate	Sulfate	Sulfide
		FIELD-MEASURED PARAMETERS							LABORATORY-MEASURED ANALYTICAL RESULTS (mg/L)								
MW-12	3/7/2013	4.95	21.73	0.046	NM	2.18	400	0.12	NM	NM	NM	NM	NM	NM	NM	NM	NM
	1/22/2015	4.9	17.63	0.048	NM	3.59	192.8	2.01	NM	NM	NM	NM	NM	NM	NM	NM	
	4/26/2016	5.14	23.5	0.051	NM	3.42	134	0.4	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/17/2016	5.48	21.84	0.054	NM	3.91	200	0	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/11/2017	6.39	24.76	0.065	NM	3.51	249.6	2.6	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-13	3/7/2013	4.82	22.29	0.05	NM	1.85	407	0.42	NM	NM	NM	NM	NM	NM	NM	NM	<2
	1/22/2015	4.48	18.71	0.049	NM	1.36	120.2	3.67	95	<9	<7	<1	NM	5	0.78	<1	
	4/26/2016	5.82	25.62	0.098	NM	2.6	225	0.9	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/16/2016	5.39	21.79	0.052	NM	3.81	235	0.8	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-14	3/7/2013	5.11	22.3	0.523	NM	1.5	362	1.12	NM	NM	NM	NM	NM	NM	NM	NM	NM
	1/21/2015	5.47	18.57	0.659	NM	0.51	109.9	1.66	NM	NM	NM	NM	NM	NM	NM	NM	
	4/26/2016	5.96	26.4	0.724	NM	0.57	103	28.9	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/16/2016	5.17	21.65	0.635	NM	1.85	128	5.1	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/11/2017	5.83	22.26	0.647	NM	1.01	179.2	14.3	NM	NM	NM	NM	NM	NM	NM	NM	NM

NOTES:

NM - Parameter was not measured
µg/L = Micrograms per liter
mg/L = Milligrams per liter
* Background Well
mV = Millivolts
SU = Standard Units
mS/cm = Millisiemens per centimeter
°C = Degrees centigrade
NTU = Nephelometric Turbidity Unit
NS = Not Sampled

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER LOEF FACILITY
ATHENS, CLARKE COUNTY, GEORGIA

Monitoing Well ID	Type 1 Risk Reduction Standard (µg/L)	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	4-Methyl-2-Pentanone (Methyl Isobutyl ketone)	2-Butanone (Methyl ethyl ketone)	2-Hexanone (Methyl butyl ketone)	Acetone	Benzene	Bromoform	Carbon Disulfide	Chloroform	Chloromethane (Methyl Chloride)	Cyclohexane	Dibromomethane	Diisopropyl ether	Toluene	Ethylbenzene	Isopropylbenzene (Cumene)	Methylcyclohexane	Methylene chloride	Xylenes (o)	Xylenes (m,p)	Xylenes (Total)	MTBE	Trichloroethene	Tetrachloroethene	Trichlorofluoromethane	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride
		1.00E6	200	5	4,000	7	5	2,000	2,000	NE	4,000	5	80	4,000	80	3	NE	NE	NE	1,000	700	NE	NE	5	NE	NE	10,000	NE	5	5	2,000	70	100	2
	DATE	Analytical Results (µg/L)																																
MW-1*	6/23/2000	--	<1	<1	1.5	<1	--	--	--	--	--	1.5	--	--	--	--	--	--	--	<1	<1	--	--	--	<3	--	--	<1	**8.2**	<1	--	<1	--	<3
	6/3/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	17	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	<1.0	<1.0	<1.0	1.1	1.9	<1.0	<1.0	<10	<10	1.6 J	1.8	<1.0	<1.0	13	0.33 J	1.3	--	--	<1.0	<1.0	0.49 J	0.89 J	4.3	--	--	0.49 J	<1.0	3.1	4.2	<1.0	3.5	<1.0	0.59 J
	11/17/2016	<1.0	<1.0	<1.0	1.2	1.8	<1.0	<10	<10	<10	<20	2.5	<1.0	<1.0	14	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	0.56 J	2.8	--	--	0.99 J	<1.0	3.8	4.2	<1.0	2.5	<1.0	<1.0
	10/10/2017	--	<0.48	<0.29	1.1	1.0	<0.24	<0.33	<0.96	<0.46	<10.0	1.7	<0.26	--	19.1	<0.11	--	<0.21	<0.12	<0.26	<0.30	--	--	1.5 J	0.26 J	<0.66	<1.0	<0.21	1.8	1.7	<0.20	2.2	<0.49	<0.62
MW-1D	6/3/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	**17**	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	7.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<5.0	<1.0	--	--	<1.0	<1.0	**22**	2.2	<1.0	<1.0	<1.0	<1.0
	11/17/2016	6.2	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<5.0	<1.0	--	--	<1.0	<1.0	**20**	2.2	<1.0	<1.0	<1.0	<1.0
	10/11/2017	--	<0.48	<0.29	<0.32	<0.56	<0.24	<0.33	<0.96	<0.46	<10.0	<0.25	<0.26	--	<0.14	<0.11	--	<0.21	<0.12	<0.26	<0.30	--	--	<0.97	<0.23	<0.66	<1.0	<0.21	**15.3**	1.2	<0.20	<0.19	<0.49	<0.62
MW-2A**	6/23/2000	--	<10	<10	12	**26**	--	--	--	--	--	<10	--	--	--	--	--	--	--	<10	<10	--	--	--	<30	--	<30	42	**570**	<5	--	**100**	**--**	**31**
	6/26/2003	--	9.7	<5	30	**43**	--	--	--	--	--	**11**	**--**	--	--	--	--	--	--	<5	<5	--	--	--	11	--	11	150	**1800**	<5	--	**250**	**--**	**52**
	8/12/2003	--	32	<5	110	**78**	--	--	--	--	--	**18**	**--**	--	--	--	--	--	--	8.9	<5	--	--	--	17	--	17	250	**6500**	<5	--	**1300**	**--**	**170**
	9/19/2003	--	28	<5	70	**65**	--	--	--	--	--	**17**	**--**	--	--	--	--	--	--	9.3	<5	--	--	--	18	--	18	200	**4700**	<5	--	**700**	**--**	**98**
	10/22/2003	--	28	<5	90	**80**	--	--	--	--	--	**36**	**--**	--	--	--	--	--	--	13	6.4	--	--	--	26	--	26	250	**3000**	<5	--	**590**	**--**	**140**
	11/18/2003	--	21	<5	71	**58**	--	--	--	--	--	**18**	**--**	--	--	--	--	--	--	9.1	<5	--	--	--	17	--	17	250	**8100**	<5	--	**1000**	**--**	**110**
	12/24/2003	--	34	<5	91	**70**	--	--	--	--	--	**16**	**--**	--	--	--	--	--	--	9.4	<5	--	--	--	22	--	22	280	**9600**	<5	--	**1500**	**--**	**130**
	1/23/2004	--	<50	<5	55	**60**	--	--	--	--	--	<50	**--**	--	--	--	--	--	--	<50	<5	--	--	--	<50	--	<50	370	**4000**	<5	--	**560**	**--**	**130**
	3/29/2004	--	16	<5	54	**46**	--	--	--	--	--	**22**	**--**	--	--	--	--	--	--	6.9	<5	--	--	--	14	--	14	250	**4000**	<5	--	**790**	**--**	**83**
	5/7/2004	--	11	<5	34	**42**	--	--	--	--	--	**20**	**--**	--	--	--	--	--	--	<5	5.8	--	--	--	14	--	14	210	**2500**	<5	--	**420**	**--**	**54**
	7/15/2004	--	11	<5	38	**32**	--	--	--	--	--	**25**	**--**	--	--	--	--	--	--	7.1	8.5	--	--	--	18	--	18	280	**1900**	<5	--	**420**	**--**	**67**
	9/30/2004	--	<5	<5	10	**23**	--	--	--	--	--	**21**	**--**	--	--	--	--	--	--	130	46	--	--	--	58	--	58	190	**430**	<5	--	**130**	**--**	**32**
	5/9/2006	--	9.4	<5	54	**38**	--	--	--	--	--	**13**	**--**	--	--	--	--	--	--	<5	<5	--	--	--	10	--	10	77	**2600**	<5	--	**720**	**--**	**51**
	6/17/2009	--	<5	<5	<5	<5	--	--	--	--	--	**14**	**--**	--	--	--	--	--	--	<5	<5	--	--	--	<10	--	<10	<5	**70**	<5	--	31	**--**	**7**
	6/24/2010	--	<5	<5	23	**17**	--	--	--	--	--	**12**	**--**	--	--	--	--	--	--	<5	<5	--	--	--	1.9	--	1.9	15	**710**	<5	--	**300**	**--**	**54**
	2/24/2011	--	<5	<5	19	**14**	--	11	--	--	90	**7.2**	**--**	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	20	**730**	<5	120	**370**	**--**	**33**
	3/18/2011**	--	<5	<5	6	**10**	--	11	--	--	<50	**7.8**	**--**	-	7	--	--	--	--	<5	<5	--	--	--	<5	--	<5	9.4	**210**	<5	<5	**120**	**--**	**19**
	8/4/2011	--	<5	<5	21	**19**	--	90	210	12	670	**13**	**--**	9	<5	--	--	--	--	13	<5	--	--	--	7.6	7.8	15.4	43	**810**	<5	<5	**390**	**--**	**61**
	8/4/2011(DUP)	--	<5	<5	21	**18**	--	79	150	10	630	**11**	**--**	7.2	<5	--	--	--	--	11	<5	--	--	--	6.8	7.1	13.9	38	**680**	<5	<5	**310**	**--**	**55**
	2/24/2012	--	<5	<5	<5	**7.7**	--	160	210	19	700	**11**	**--**	<5	<5	--	--	--	--	8.6	<5	--	--	--	7.3	9.8	17.1	32	**69**	<5	<5	**100**	**--**	**34**
	9/20/2012	--	<5	<5	9.1	**9.4**	--	96	150	22	530	**11**	**--**	8.3	<5	--	--	--	--	6.9	<5	--	--	--	5.9	8.3	14.2	34	**140**	<5	<5	**210**	**--**	**69**
	3/7/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/22/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	,10	5.4	**23**	<5.0	<5.0	21	<5.0	**29**
	DUP (FD012215B) 1/22/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	**5.2**	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	6	**43**	<5.0	<5.0	33	<5.0	**29**
	5/20/2015	--	<5.0	<5.0	6.1	<5.0	--	<10	<50	<10	<50	**8.7**	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	7.6	**140**	<5.0	<5.0	**130**	<5.0	**49**
MW-3A	6/23/2000	--	<1	<5	<1	<1	--	--	--	--	--	**36**	**--**	--	--	--	--	--	--	<1	<1	--	--	--	<3	--	<3	<1	**30**	<5	--	<1	--	<3
	5/7/2004	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	**11**	<5	--	<5	--	<2
	5/9/2006	--	<5	<5	<5	<5	--	--	--	--	--	**7.4**	**--**	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	**22**	<5	--	<5	--	<2
	6/17/2009	--	<5	<5	<5	<5	--	--	--	--	--	**13**	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	**15**	<5	--	<5	--	<2
	6/24/2010	--	<5	<5	<5	<5	--	--	--	--	--	**16**	**--**	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	**17**	<5	--	<5	--	<2
	2/24/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	**14**	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	**13**	<5	<5	<5	--	<2
	8/4/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	**13**	**--**	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	**11**	<5	<5	<5	--	<2
	2/24/2012	--	<5	<5	<5	<5	--	<10	<50	<10	<50	**10**	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	**8**	<5	<5	<5	--	<2
	9/20/2012	--	<5	<5	<5	<5	--	<10	<50	<10	<50	**14**	**--**	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	**9.8**	<5	<5	<5	--	<2
	3/7/2013	--	<5	<5	<5	<5	--	<10	<50	<10	<50	**14**	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	**9.6**	<5	<5	<5	--	<2
	1/22/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	**22**	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	**8.8**	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	**8.2**	<1.0	<1.0	<1.0	0.19 J	0.90 J	--	--	<1.0	<1.0	<1.0	0.45 J	<1.0	--	--	<1.0	<1.0	3.9	<1.0	<1.0	0.97 J	<1.0	<1.0
	11/17/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	**14**	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<5.0	<1.0	--	--	<1.0	<1.0	**5.0**	<1.0	<1.0	0.70 J	<1.0	<1.0
	5/5/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	2.2J	**7.3**	<1.0	<1.0	<1.0	<1.0	0.72J	--	--	<1.0	<1.0	<1.0	<5.0	<1.0	--	--	<1.0	<1.0	3.4	<1.0	<1.0	1.5	<1.0	<1.0
	10/11/2017	--	<0.48	<0.29	<0.32	<0.56	<0.24	<0.33	<0.96	<0.46	<10.0	**7.4**	<0.26	--	<0.14	<0.11	--	<0.21	<0.12	<0.26	<0.30	--	--	<0.97	<0.23	<0.66	<1.0	<0.21	2.5	<0.46	<0.20	1.0	<0.49	<0.62
	DUP10112017 10/11/2017	--	<0.48	<0.29	<0.32	<0.56	<0.24	4.4 J	<0.96	<0.46	<10.0	**7.5**	<0.26	--	<0.14	<0.11	--	<0.21	<0.12	<0.26	<0.30	--	--	<0.97	<0.23	<0.66	<1.0	<0.21	2.9	<0.46	<0.20	0.89 J	<0.49	<0.62

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER LOEF FACILITY
ATHENS, CLARKE COUNTY, GEORGIA

Monitoing Well ID	Type 1 Risk Reduction Standard (µg/L)	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	4-Methyl-2-Pentanone (Methyl Isobutyl ketone)	2-Butanone (Methyl ethyl ketone)	2-Hexanone (Methyl butyl ketone)	Acetone	Benzene	Bromoform	Carbon Disulfide	Chloroform	Chloromethane (Methyl Chloride)	Cyclohexane	Dibromomethane	Diisopropyl ether	Toluene	Ethylbenzene	Isopropylbenzene (Cumene)	Methylcyclohexane	Methylene chloride	Xylenes (o)	Xylenes (m,p)	Xylenes (Total)	MTBE	Trichloroethene	Tetrachloroethene	Trichlorofluoromethane	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride
		1.00E6	200	5	4,000	7	5	2,000	2,000	NE	4,000	5	80	4,000	80	3	NE	NE	NE	1,000	700	NE	NE	5	NE	NE	10,000	NE	5	5	2,000	70	100	2
	DATE	Analytical Results (µg/L)																																
MW-4A	6/23/2000	--	<1	<5	<1	<1	--	--	--	--	--	**12**	**--**	--	--	--	--	--	--	<1	<1	--	--	--	<1	--	<1	<1	<1	2.7	--	<1	--	<1
	5/7/2004	--	<5	<5	<5	<5	--	--	--	--	--	**27**	**--**	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	**29**	<5	--	<5	--	<5
	5/9/2006	--	<5	<5	<5	<5	--	--	--	--	--	**37**	**--**	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	**51**	<5	--	<5	--	<2
	6/17/2009	--	<5	<5	<5	<5	--	--	--	--	--	<5	**--**	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	**7.2**	<5	--	<5	--	<2
	6/24/2010	--	<5	<5	<5	<5	--	--	--	--	--	4.9	**--**	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	**6.1**	<5	--	<5	--	<2
	2/24/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	**7**	**--**	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	**13**	<5	<5	<5	--	<2
	8/4/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	**29**	**--**	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	**51**	<5	<5	9.5	--	<2
	2/24/2012	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	**--**	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	9/20/2012	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	**--**	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	**6.3**	<5	<5	<5	--	<2
	3/7/2013	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	**--**	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	1/22/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<5.0	<1.0	--	--	<1.0	<1.0	0.35 J	<1.0	<1.0	<1.0	<1.0	<1.0
	11/17/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	**34**	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<5.0	<1.0	--	--	1.2	<1.0	**81**	2.9	<1.0	21	0.43 J	<1.0
	5/5/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<5.0	<1.0	--	--	<1.0	<1.0	1.7	<1.0	<1.0	0.53J	<1.0	<1.0
	10/11/2017	--	<0.48	<0.29	<0.32	<0.56	<0.24	4.3 J	<0.96	<0.46	37.2	<0.25	<0.26	--	<0.14	<0.11	--	<0.21	<0.12	<0.26	<0.30	--	--	<0.97	<0.23	<0.66	<1.0	<0.21	0.74 J	<0.46	<0.20	<0.19	<0.49	<0.62
MW-5	6/23/2000	--	1.5	<1	<1	<1	--	--	--	--	--	<1	--	--	--	--	--	--	--	<1	<1	--	--	--	<1	--	--	<1	<1	<1	--	<1	--	<1
MW-6	11/5/2000	--	--	<5	<1	--	--	--	--	--	--	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1	<1	--	<1	--	--
	6/17/2009	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	6/24/2010	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	2/24/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	8/4/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	2/24/2012	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	9/20/2012	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	3/7/2013	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	1/21/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
MW-7A	11/5/2000	--	--	--	<1	--	--	--	--	--	--	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**5.4**	<1	--	2.1	--	--
	5/7/2004	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	5/9/2006	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	6/17/2009	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	6/24/2010	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	2/24/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	8/4/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	2/24/2012	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	9/20/2012	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	3/8/2013	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	1/22/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	<1.0	<1.0	<1.0	0.63 J	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
	11/16/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
MW-8A	11/5/2000	--	--	--	<1	--	--	--	--	--	--	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**15**	<1	--	<1	--	--
	5/7/2004	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	5/9/2006	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	6/17/2009	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	6/24/2010	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	2/24/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	8/4/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	2/24/2012	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	9/20/2012	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	3/8/2013	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	1/22/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	<1.0	<1.0	<1.0	<1.0	0.42 J	<1.0	<10	<10	<10	5.3 J	<1.0	<1.0	<1.0	<1.0	0.41 J	<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	0.97 J
	11/16/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	1.2
	DUP-1 11/16/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	1.3
	10/11/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER LOEF FACILITY
ATHENS, CLARKE COUNTY, GEORGIA

Monitoing Well ID	Type 1 Risk Reduction Standard (µg/L)	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	4-Methyl-2-Pentanone (Methyl Isobutyl ketone)	2-Butanone (Methyl ethyl ketone)	2-Hexanone (Methyl butyl ketone)	Acetone	Benzene	Bromoform	Carbon Disulfide	Chloroform	Chloromethane (Methyl Chloride)	Cyclohexane	Dibromomethane	Diisopropyl ether	Toluene	Ethylbenzene	Isopropylbenzene (Cumene)	Methylcyclohexane	Methylene chloride	Xylenes (o)	Xylenes (m,p)	Xylenes (Total)	MTBE	Trichloroethene	Tetrachloroethene	Trichlorofluoromethane	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride
		1.00E6	200	5	4,000	7	5	2,000	2,000	NE	4,000	5	80	4,000	80	3	NE	NE	NE	1,000	700	NE	NE	5	NE	NE	10,000	NE	5	5	2,000	70	100	2
	DATE	Analytical Results (µg/L)																																
MW-9A	5/7/2004	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	5/9/2006	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	6/17/2009	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	6/24/2010	--	<5	<5	<5	<5	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<2
	2/24/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	8/4/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	2/24/2012	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	9/20/2012	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	3/8/2013	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	1/22/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
	11/16/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
	10/11/2017	--	<0.48	<0.29	<0.32	<0.56	<0.24	4.4 J	<0.96	<0.46	<10.0	<0.25	<0.26	--	<0.14	<0.11	--	<0.21	<0.12	<0.26	<0.30	--	--	<0.97	<0.23	<0.66	<1.0	<0.21	<0.47	<0.46	<0.20	<0.19	<0.49	<0.62
MW-10	3/7/2013	--	<5	<5	<5	<5	--	<10	<50	<10	<50	**5.3**	**--**	<5	<5	--	--	--	--	<5	<5	--	--	--	12	22	34	<5	<5	<5	<5	<5	<5	--	<2
	1/22/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	8.6	<5.0	8.6	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<5.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0
	11/17/2016	<1.0	<1.0	<1.0	0.94 J	1.3	<1.0	<10	<10	<10	<20	**8.9**	1.4	<1.0	<1.0	<1.0	<1.0	--	--	0.70 J	4.2	1.2	<5.0	0.88 J	--	--	30	2.6	2.5	<1.0	2.8	<1.0	<1.0	<1.0
	5/5/2017	<1.0	<1.0	<1.0	0.71J	0.75J	<1.0	<10	<10	<10	2.2J	2.6	0.52J	<1.0	<1.0	<1.0	<1.0	--	--	0.70 J	1.2	0.5J	<5.0	0.63J	--	--	6.4	2.5	1.1	<1.0	3.2	<1.0	<1.0	<1.0
	10/10/2017	--	<0.48	<0.29	0.44 J	<0.56	0.26 J	4.6 J	<0.96	<0.46	<10.0	1.2	<0.26	--	<0.14	<0.11	--	1.0 J	0.44 J	<0.26	0.63 J	--	--	<0.97	2.6	0.93 J	2.6	1.6	<0.47	<0.46	2.9	<0.19	<0.49	<0.62
MW-11	3/8/2013	--	<5	<5	<5	**8.5**	--	<10	<50	<10	<50	**16**	**--**	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	**1,300**	**10**	<5	12	--	<2
	1/22/2015	--	<5.0	<5.0	<5.0	**13**	--	<10	<50	<10	<50	**27**	<5.0	<5.0	<5.0			--	--	<5.0	<5.0				<5.0	<5.0	<10	<5.0	**1,500**	**15**	<5.0	12	<5.0	<2.0
	4/26/2016	<5.0	<5.0	<5.0	<5.0	**9**	<5.0	<50	<50	<50	<100	**9.2**	<5.0	<1.0	1.7 J	<5.0	<5.0	--	--	<5.0	<5.0	<5.0	<25.0	<5.0	--	--	<5.0	<5.0	**760**	**5.8**	<5.0	7.5	<5.0	<5.0
	11/17/2016	<10	<10	<10	<10	<10	<10	<100	<100	<100	<200	**15**	<10	<10	<10	<10	<10	--	--	<10	<10	<10	<50	<10	--	--	<10	<10	**640**	**8.3 J**	<10	<10	<10	<10
	DUP-2 11/17/2016	<10	<10	<10	<10	<10	**32**	<100	<100	<100	<200	**15**	5.3 J	<10	<10	<10	<10	--	--	<10	<10	<10	<50	<10	--	--	<10	<10	**590**	**7.0 J**	<10	<10	<10	<10
	10/10/2017	--	<1.9	<1.2	<1.3	**7.8**	<0.96	<1.3	<3.8	<1.8	<40.0	**12.7**	<1.0	--	1.6 J	<0.44	--	<0.84	<0.48	<1.0	<1.2	--	--	**10.8**	<0.92	<2.6	<4.0	<0.84	**450**	3.6 J	<0.80	5.6	<2.0	<2.5
MW-12	3/7/2013	--	<5	<5	<5	**30**	--	<10	<50	<10	<50	<5	--	<5	28	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	1/22/2015	--	<5.0	<5.0	<5.0	**45**	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	5	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	DUP (FD012215A) 1/22/2015	--	<5.0	<5.0	<5.0	**43**	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	5.4	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	<1.0	<1.0	0.29 J	<1.0	**13**	0.28 J	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<5.0	<1.0	--	--	<1.0	<1.0	0.49 J	<1.0	<1.0	<1.0	<1.0	<1.0
	DUP-2 4/26/2016	<1.0	<1.0	0.29 J	<1.0	**14**	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<5.0	<1.0	--	--	<1.0	<1.0	0.43 J	<1.0	1.2	<1.0	<1.0	<1.0
	11/17/2016	<1.0	<1.0	<1.0	<1.0	6.2	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
	10/11/2017	--	<0.48	<0.29	<0.32	**7.3**	<0.24	<0.33	<0.96	<0.46	<10.0	<0.25	<0.26	--	<0.14	<0.11	--	<0.21	<0.12	<0.26	<0.30	--	--	<0.97	<0.23	<0.66	<1.0	<0.21	<0.47	<0.46	<0.20	<0.19	<0.49	<0.62
MW-13	3/7/2013	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	1/22/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	<1.0	<1.0	<1.0	0.25 J	0.40 J	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
	DUP-1 4/26/2016	<1.0	<1.0	<1.0	0.25 J	0.44 J	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
	11/16/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
MW-14	3/7/2013	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	5.6	<5	<5	<5	<5	--	<2
	1/21/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	<1.0	<1.0	<1.0	<1.0	0.44 J	<1.0	0.58 J	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<5.0	<1.0	--	--	<1.0	1	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**
	11/16/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	0.47 J	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<5.0	<1.0	--	--	<1.0	0.72 J	<1.0	<1.0	<1.0	<1.0	<1.0	0.70 J
	10/11/2017	--	<0.48	<0.29	<0.32	<0.56	<0.24	3.9 J	<0.96	<0.46	<10.0	<0.25	<0.26	--	<0.14	0.26 J	--	<0.21	<0.12	<0.26	<0.30	--	--	<0.97	<0.23	<0.66	<1.0	0.85 J	0.58 J	<0.46	<0.20	<0.19	<0.49	<0.62
TW-1	5/4/2006	--	<5	<5	<5	<5	--	--	--	--	--	**38**	**--**	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	**10**	<5	--	<5	--	<5
TW-2	5/4/2006	--	<5	<5	<5	<5	--	--	--	--	--	**100**	**--**	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	**15**	**6.6**	--	<5	--	<5
TW-3	5/4/2006	--	<5	<5	<5	**29**	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	**8.2**	<5	--	<5	--	<5
TW-4	5/4/2006	--	<5	**5.9**	<5	**150**	--	--	--	--	--	<5	--	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<5
TW-5	5/4/2006	--	<5	<5	<5	<5	--	--	--	--	--	**24**	**--**	--	--	--	--	--	--	<5	<5	--	--	--	<5	--	<5	<5	<5	<5	--	<5	--	<5

TABLE 4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER LOEF FACILITY
ATHENS, CLARKE COUNTY, GEORGIA

Monitoing Well ID	Type 1 Risk Reduction Standard (µg/L)	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	4-Methyl-2-Pentanone (Methyl Isobutyl ketone)	2-Butanone (Methyl ethyl ketone)	2-Hexanone (Methyl butyl ketone)	Acetone	Benzene	Bromoform	Carbon Disulfide	Chloroform	Chloromethane (Methyl Chloride)	Cyclohexane	Dibromomethane	Diisopropyl ether	Toluene	Ethylbenzene	Isopropylbenzene (Cumene)	Methylcyclohexane	Methylene chloride	Xylenes (o)	Xylenes (m,p)	Xylenes (Total)	MTBE	Trichloroethene	Tetrachloroethene	Trichlorofluoromethane	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride
		1.00E6	200	5	4,000	7	5	2,000	2,000	NE	4,000	5	80	4,000	80	3	NE	NE	NE	1,000	700	NE	NE	5	NE	NE	10,000	NE	5	5	2,000	70	100	2
	DATE	Analytical Results (µg/L)																																
Equipment Blank	2/24/2011	--	<5	<5	<5	<5	--	<10	<50	<10	59	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
FB-1	4/26/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
FB-1	11/17/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<5.0	2.1	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trip Blank	8/5/2011	--	<5	<5	<5	<5	--	<10	<50	<10	<50	<5	--	<5	<5	--	--	--	--	<5	<5	--	--	--	<5	<5	<10	<5	<5	<5	<5	<5	--	<2
	1/21/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	1/22/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	5/21/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/5/2015	--	<5.0	<5.0	<5.0	<5.0	--	<10	<50	<10	<50	<5.0	<5.0	<5.0	<5.0	--	--	--	--	<5.0	<5.0	--	--	--	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
	11/17/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
	5/5/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<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	<1.0
	10/11/2017	--	<0.48	<0.29	<0.32	<0.56	<0.24	<0.33	<0.96	<0.46	<10.0	<0.25	<0.26	--	<0.14	<0.11	--	<0.21	<0.12	<0.26	<0.30	--	--	<0.97	<0.23	<0.66	<1.0	<0.21	<0.47	<0.46	<0.20	<0.19	<0.49	<0.62

NOTES:
VOC - Volatile Organic Compounds
"760" - Numbers in bold exceed the applicable Type 1 Risk Reduction Standard criteria.
* - Casing for MW-1 was damaged. Sampling access was not available on this date.
**- MW-2A was overdrilled and replaced 3/18/11.
J - Result is an estimated value below the laboratory reporting limit.
NE - Not Established (no Type 1 Groundwater Risk Reduction Standard is assigned).
NS - Not Sampled (MW-2A was inaccessible in March 2013 and MW-8A was inaccessible in October 2017 and not sampled).
-- - Not Analyzed.
MW-10 thru MW-14 were installed December 19 - 21, 2013 .
Shaded cell: VOC was previously not reported or tested by lab. First reporting for this compound was April 2016 sampling event.
Shaded cell: VOC was previously not reported or tested by lab. First reporting for this compound was October 2017 sampling event.

TABLE 5
DIRECT-PUSH GROUNDWATER SAMPLES ANALYTICAL RESULTS
FORMER LOEF FACILITY
ATHENS, CLARKE COUNTY, GEORGIA

Monitoring Well ID	Date	Depth (ft. bgs)	1,1-Dichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	2-Hexanone	Acetone	Benzene	Chloroform	Chloromethane	Diisopropyl ether	Naphthalene	Tetrachloroethene	Toluene	Trichloroethene	cis-1,2-Dichloroethene	m&p-Xylene	o-Xylene	trans-1,2-Dichloroethene
Type 1 Risk Reduction Standard (µg/L)			**4,000**	**7**	**2,000**	**NE**	**4,000**	**5**	**80**	**3**	**NE**	**20**	**5**	**1,000**	**5**	**70**	**NE**	**NE**	**100**
GW-1 (55)	10/11/2017	51-55	1.1	**13.7**	<0.96	<0.46	11.0 J	<0.25	1.5	<0.11	<0.12	<0.24	<0.46	<0.26	**26.0**	<0.19	<0.66	<0.23	<0.49
GW-1 (74)	10/11/2017	70-74	<0.32	2.8	<0.96	1.3 J	273	<0.25	1.3	<0.11	<0.12	<0.24	<0.46	0.32 J	<0.47	<0.19	<0.66	<0.23	<0.49
GW-2 (50)	10/10/2017	46-50	<0.64	<1.1	<1.9	<0.92	<20.0	**94.0**	0.63 J	<0.22	<0.24	<0.48	1.3 J	<0.52	**161**	5.9	<1.3	0.46 J	<0.98
	GW-Dup-01 10/10/2017	46-50	<0.32	0.81 J	<0.96	<0.46	<10.0	**113**	0.49 J	<0.11	<0.12	<0.24	1.4	<0.26	**199**	7.1	0.68 J	0.46 J	<0.49
GW-2 (71)	10/10/2017	67-71	<0.32	<0.56	<0.96	<0.46	10.5 J	**73.6**	0.38 J	<0.11	<0.12	<0.24	1.3	<0.26	**161**	1.7	<0.66	0.30 J	<0.49
GW-3 (50)	10/12/2017	46-50	<0.32	<0.56	<0.96	<0.46	16.8 J	<0.25	<0.14	<0.11	<0.12	<0.24	<0.46	0.45 J	1.1	3.1	<0.66	<0.23	<0.49
GW-3 (70)	10/12/2017	66-70	<0.32	<0.56	<0.96	<0.46	<10.0	<0.25	<0.14	<0.11	<0.12	<0.24	<0.46	0.34 J	<0.47	<0.19	<0.66	<0.23	<0.49
GW-4 (50)	10/10/2017	46-50	5.7	**7.8**	<0.96	<0.46	<10.0	**9.9**	<0.14	0.20 J	0.15 J	0.69 J	<0.46	<0.26	**54.9**	**102**	<0.66	<0.23	1.4
GW-4 (70)	10/10/2017	66-70	1.5	4.2	<0.96	<0.46	<10.0	0.95 J	<0.14	0.26 J	<0.12	<0.24	<0.46	<0.26	2.8	4.9	<0.66	<0.23	<0.49
GW-5 (29)	10/11/2017	25-29	<0.32	<0.56	<0.96	<0.46	<10.0	1.0 J	0.56 J	<0.11	<0.12	<0.24	<0.46	0.35 J	3.1	1.1	<0.66	<0.23	<0.49
GW-5 (52)	10/11/2017	48-52	<0.32	<0.56	<0.96	<0.46	<10.0	<0.25	0.23 J	<0.11	<0.12	<0.24	<0.46	0.45 J	4.1	0.35 J	<0.66	<0.23	<0.49
GW-6 (55)	10/11/2017	51-55	0.90 J	2.2	2.8 J	<0.46	36.0	1.0 J	0.34 J	<0.11	<0.12	<0.24	<0.46	0.41 J	**6.5**	0.36 J	<0.66	<0.23	<0.49
	GW-Dup-02 10/11/2017	51-55	0.69 J	1.5	<0.96	<0.46	45.7	0.77 J	0.26 J	<0.11	<0.12	<0.24	<0.46	0.49 J	4.2	0.31 J	<0.66	<0.23	<0.49
GW-6 (74)	10/11/2017	70-74	1.0	3.8	<0.96	<0.46	11.2 J	0.93 J	0.30 J	<0.11	<0.12	<0.24	<0.46	<0.26	2.0	<0.19	<0.66	<0.23	<0.49
Trip Blank	10/11/2017	NA	<0.32	<0.56	<0.96	<0.46	<10.0	<0.25	<0.14	<0.11	<0.12	<0.24	<0.46	<0.26	<0.47	<0.19	<0.66	<0.23	<0.49

NOTES:

Only analytes detected above laboratory reporting limits are shown.

Analytical results reporting in micrograms per liter (µg/L)

"102" - Numbers in bold exceed the applicable Type 1 Risk Reduction Standard criteria.

J - Result is an estimated value below the laboratory reporting limit.

NE - Not Established (no Type 1 Groundwater Risk Reduction Standard is assigned).

NE - Not Applicable

ft bgs- Feet Below Ground Surface

APPENDIX A

GROUNDWATER SAMPLING FORMS

OmniSource

April Groundwater Monitoring Event

Gauge Date: 10/10/17

Monitoring Well Gauging Data					
Well ID	**DTP**	**DTW**	**DTB**	**Product Thickness**	**Comments**
MW-1		20.82			
MW-1D		27.73			
MW-3A		25.85			
MW-4A		23.95			
*MW-6		22.96			
*MW-7A		14.94			No well cap
MW-8A		NM			well half way under water- inaccessible
MW-9A		6.69			
MW-10		21.58			
MW-11		22.13			*
MW-12		19.30			
*MW-13		17.80			
MW-14		19.34			

* NOT SAMPLE

* Initially debris detected at 3.5' BTOC. stick up removed from ground & PVC in stick up. TOC now level with ground surface.

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 10/10/17 Time: 1500
Apex Personnel: K. Schwarz
Location (Site/Facility Name): CMC Athens

Monitor Well Number: ~~MW-1~~ MW-1
Purpose of Sampling Event: Semiannual
Weather/Temp: Sunny / 80°F

Circle:

Measuring Point (MP): top of casing, top of ground
Depth to Product (MP):
Depth to Water (MP): 20.82
Total Depth of Well (MP): 24 (0.1')
Water Column thickness (ft):
Well Material: PVC, Stainless Steel, Other:
Well pad condition: Good, Cracked, Replace

Low Flow purge rate: 200 mL/min
Well Cover Bolted: Yes No
Well Cap Condition: Good Replaced
Well Cap Locked: Yes, No, Replaced
Well Tag Present: Yes No
Well Info. On Tag: Yes No
Well Diameter (in): 2

Well Type: surface completion above grade
Well Screen Length: 5, 10, 5, 20 feet; 14-24
Pump Intake depth below water (MP): 22
Purging/Sampling Device: Bailer, Peristaltic, Monsoon, Grundfos:
OTHER:
Noticeable Odor: none
Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	gallons	Liters	°C	µS/cm		mV	mg/L	NTU	
Initial	20.82	–	–	27.03	65	6.11	164.5	1.18	29.3	
1505	20.88	–	1	26.49	65	6.16	171.9	0.90	15.1	
1510	20.93	–	2	26.98	65	6.06	173.9	0.81	13.7	
1515	20.93	–	3	26.85	64	6.09	177.7	0.80	8.1	
1520	20.93	–	4	26.80	63	6.14	179.5	0.81	7.4	
1525	20.93	–	5	26.78	63	6.09	184.9	0.83	6.3	
Criteria	0.33'	0.2-0.5 L/min			+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: Hanna 9829

Parameters Stabilized (circle): YES NO If no, why?

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
3	8260 VOC	40ml VOA	HCl	Pace	10/10/17	1530

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 10/11/17 Time: 1020 Monitor Well Number: MW-1D
Apex Personnel: K. Schwarz Purpose of Sampling Event: semiannual
Location (Site/Facility Name): CMC Athens Weather/Temp: Sunny/80F

Circle:

Measuring Point (MP): top of casing, top of ground
Depth to Product (MP):
Depth to Water (MP): 27.73
Total Depth of Well (MP): 75 (0.1')
Water Column thickness (ft):
Well Material: PVC, Stainless Steel, Other:
Well pad condition: Good, Cracked, Replace

Low Flow purge rate: 200 mL/min
Well Cover Bolted: Yes No Stickup labeled
Well Cap Condition: Good, Replaced
Well Cap Locked: Yes, No, Replaced
Well Tag Present: Yes No
Well Info. On Tag: Yes No
Well Diameter (in): 2

Well Type: surface completion, above grade
Well Screen Length: 5, 10, 15, 20 feet: 70-75
Pump Intake depth below water (MP): 72
Purging/Sampling Device: Bailer, Peristaltic, Monsoon, Grundfos:
OTHER:
Noticeable Odor: none
Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments	Field Comments/Site Conditions, etc.:
min.	Feet	gallons	Liters	°C	µS/cm		mV	mg/L	NTU		
Initial	27.73	—	—	26.24	100	8.65	154.5	3.72	69.6		
1025	27.92	—	1	24.89	104	9.71	177.6	2.07	37.8		
1030	28.07	—	2	24.93	104	9.99	175.8	1.91	26.1		
1035	28.10	—	3	24.68	103	10.49	171.6	1.93	22.8		
1040	28.10	—	4	25.21	102	10.72	169.1	1.95	22.0		
1045	28.10	—	5	25.04	100	11.26	164.6	1.97	13.0		
1050	28.10	—	6	25.06	100	11.57	162.5	2.00	15.0		
1055	28.11	—	7	25.48	99	11.52	162.7	1.98	8.9		
1100	28.11	—	8	25.49	98	11.54	160.3	2.05	8.0		
Criteria	0.33'	0.2-0.5 L/min			+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%		

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: Hanna 9829

Parameters Stabilized (circle): YES NO If no, why?

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
3	8260 VOC	40 ml VOA	HCl	Pace	10/11/17	1105

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 10/11/17 Time: 0730
Apex Personnel: K. Schwarz
Location (Site/Facility Name): CMC Athens
Circle:
Monitor Well Number: MW-3A
Purpose of Sampling Event: Semiannual
Weather/Temp: overcast / 70°F

Measuring Point (MP): (top of casing), top of ground
Depth to Product (MP):
Depth to Water (MP): 25.85
Total Depth of Well (MP): 30 (0.1')
Water Column thickness (ft):
Well Material: (PVC), Stainless Steel, Other:
Well pad condition: (Good), Cracked, Replace

Low Flow purge rate: 200 mL/min
Well Cover Bolted: Yes No stick up locked
Well Cap Condition: (Good) Replaced
Well Cap Locked: Yes, (No), Replaced
Well Tag Present: Yes (No)
Well Info. On Tag: Yes (No)
Well Diameter (in): 2

Well Type: surface completion, (above grade)
Well Screen Length: 5, (10), 5, 20 feet; 20-30
Pump Intake depth below water (MP): 28
Purging/Sampling Device: Bailer, (Peristaltic), Monsoon, Grundfos;
OTHER:
Noticeable Odor: none
Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	gallons	Liters	°C	µS/cm		mV	mg/L	NTU	
Initial	25.85	-	-	22.51	100	5.71	186.4	6.39	24.9	
0735	25.92	-	1	22.19	104	5.01	277.2	1.35	37.9	
0740	26.03	-	2	22.14	103	4.86	363.6	1.16	32.5	
0745	26.06	-	3	22.14	103	4.79	519.6	1.06	42.5	
0750	26.08	-	4	22.20	102	4.78	555.7	1.03	21.3	
0755	26.10	-	5	22.17	101	4.84	559.9	1.01	19.2	
0800	26.12	-	6	22.35	101	4.85	562.0	1.03	20.3	
Criteria	0.33'	0.2-0.5 L/min			+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: Hanna 9829

DUP10112017

Parameters Stabilized (circle): (YES) NO If no, why?

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
3	8260 VOC	40 mL VOA	HCl	Pace	10/11/17	0805

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 10/11/17 Time: 1230
Apex Personnel: K. Schwarz
Location (Site/Facility Name): CMC Athens
Circle:

Monitor Well Number: MW-4A
Purpose of Sampling Event: semiannual
Weather/Temp: Sunny/80°F

Measuring Point (MP): (top of casing) top of ground
Depth to Product (MP):
Depth to Water (MP): 23.95
Total Depth of Well (MP): 29.5 (0.1')
Water Column thickness (ft):
Well Material: (PVC) Stainless Steel, Other:
Well pad condition: (Good) Cracked, Replace

Low Flow purge rate: 200 mL/min
Well Cover Bolted: (Yes) No
Well Cap Condition: (Good) Replaced
Well Cap Locked: (Yes) No, Replaced
Well Tag Present: Yes (No)
Well Info. On Tag: Yes (No)
Well Diameter (in): 2

Well Type: surface completion, (above grade)
Well Screen Length: 5, (10), 15, 20 feet: 19.5-29.5
Pump Intake depth below water (MP): 27
Purging/Sampling Device: Bailer, (Peristaltic), Monsoon, Grundfos;
OTHER:
Noticeable Odor: none
Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments	Field Comments/Site Conditions, etc.:
min.	Feet	gallons	Liters	°C	µS/cm		mV	mg/L	NTU		
Initial	23.95	—	—	21.51	696	7.43	105.6	2.02	12.4		
1235	24.06	—	1	24.13	693	7.55	187.4	1.93	7.4		
1240	24.08	—	2	24.19	688	7.63	185.8	1.92	7.3		
1245	24.08	—	3	21.45	689	7.61	184.6	1.87	6.3		
1250	24.08	—	4	23.78	689	7.67	183.8	1.86	8.1		
Criteria	0.33'	0.2-0.5 L/min			+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%		

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: Hanna 9829

Parameters Stabilized (circle): (YES) NO If no, why?

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
3	8260 VOC	40 mL VOA	HCl	Pace	10/11/17	1255

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 10/11/17 Time: _____ Monitor Well Number: MW-8A

Apex Personnel: KS Purpose of Sampling Event: _____

Location (Site/Facility Name): CMC Athens Weather/Temp: _____

Circle:

Measuring Point (MP): top of casing, top of ground

Depth to Product (MP): _____

Depth to Water (MP): _____

Total Depth of Well (MP): _____ (0.1')

Water Column thickness (ft): _____

Well Material: PVC, Stainless Steel, Other:

Well pad condition: Good, Cracked, Replace

Low Flow purge rate: _____ mL/min

Well Cover Bolted: Yes No

Well Cap Condition: Good Replaced

Well Cap Locked: Yes, No, Replaced

Well Tag Present: Yes No

Well Info On Tag: Yes No

Well Diameter (in): _____

Well Type: surface completion, above grade

Well Screen Length: 5, 10, 15, 20 feet; _____

Pump Intake depth below water (MP): _____

Purging/Sampling Device: Bailer, Peristaltic, Monsoon, Grundfos;

OTHER:

Noticeable Odor: _____

Sample Color: _____

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	gallons	Liters	°C	µS/cm		mV	mg/L	NTU	
Initial										
Criteria	0.33'	0.2-0.5 L/min			+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

MW-8A stick up half way under water - inaccessible

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 10/11/17 Time: 1125
Apex Personnel: K. Schwarz
Location (Site/Facility Name): ~~CCR~~ CMC Athens

Monitor Well Number: MW-9A
Purpose of Sampling Event: semiannual
Weather/Temp: Sunny/90°F

Circle:
Measuring Point (MP): top of casing, top of ground
Depth to Product (MP):
Depth to Water (MP): 6.69
Total Depth of Well (MP): 20 (0.1')
Water Column thickness (ft):
Well Material: PVC, Stainless Steel, Other:
Well pad condition: Good, Cracked, Replace

Low Flow purge rate: 200 mL/min
Well Cover Bolted: Yes No stickup locked
Well Cap Condition: Good Replaced
Well Cap Locked: Yes No, Replaced
Well Tag Present: Yes No
Well Info. On Tag: Yes No
Well Diameter (in): 2

Well Type: surface completion, above grade
Well Screen Length: 5, 10, 15, 20 feet; 10-20
Pump Intake depth below water (MP): 15
Purging/Sampling Device: Bailer, Peristaltic, Monsoon, Grundfos;
OTHER:
Noticeable Odor: none
Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments	Field Comments/Site Conditions, etc.:
min.	Feet	gallons	Liters	°C	µS/cm		mV	mg/L	NTU		
Initial	6.69	—	—	27.16	594	8.68	59.6	1.53	3.6		
1130	8.19	—	1	24.99	613	9.11	40.6	0.95	2.6		
1135	8.06	—	2	25.44	601	8.50	53.8	0.94	3.6		
1140	8.07	—	3	26.33	575	7.76	92.0	0.92	5.9		
1145	8.06	—	4	26.48	559	7.50	113.9	0.92	6.8		
1150	8.06	—	5	26.62	552	7.30	131.8	0.93	7.0		
1155	8.06	—	6	27.04	548	7.12	144.0	0.90	7.1		
1200	8.06	—	7	26.95	548	7.07	147.0	0.95	6.5		
1205	8.06	—	8	27.04	547	7.04	150.1	0.96	6.0		
Criteria	0.33'	0.2-0.5 L/min			+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%		

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: Hanna 9829

Parameters Stabilized (circle): YES NO If no, why?

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
3	VOC 8260	40mL VOA	HCl	Pace	10/11/17	1210

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 10/10/17 Time: 1315
Apex Personnel: KSchwarz
Location (Site/Facility Name): CMC Athens

Monitor Well Number: MW-1D
Purpose of Sampling Event: Semiannual
Weather/Temp: Overcast/80°F

Circle:

Measuring Point (MP): top of casing, top of ground
Depth to Product (MP):
Depth to Water (MP): 21.58
Total Depth of Well (MP): 35 (0.1')
Water Column thickness (ft):
Well Material: PVC, Stainless Steel, Other:
Well pad condition: Good, Cracked, Replace

Low Flow purge rate: 200 mL/min
Well Cover Bolted: Yes No
Well Cap Condition: Good Replaced
Well Cap Locked: Yes, No, Replaced
Well Tag Present: Yes No
Well Info. On Tag: Yes No
Well Diameter (in): 2

Well Type: surface completion, above grade
Well Screen Length: 5, 10, 15, 20 feet; 25-35
Pump Intake depth below water (MP): 30
Purging/Sampling Device: Bailer, Peristaltic, Monsoon, Grundfos
OTHER:
Noticeable Odor: none
Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments	Field Comments/Site Conditions, etc.
min.	Feet	gallons	Liters	°C	µS/cm		mV	mg/L	NTU		
Initial	21.58	–	–	21.65	170	5.63	313.9	2.25	16.1		
1320	21.72	–	1	21.82	169	5.67	353.9	1.77	11.6		
1325	21.83	–	2	21.83	168	5.80	385.2	1.55	8.2		
1330	21.81	–	3	21.76	168	5.89	403.6	1.49	11.0		
1335	21.80	–	4	21.92	167	5.90	416.3	1.45	11.2		
1340	21.80	–	5	21.84	166	5.91	430.4	1.44	9.2		
1345	21.80	–	6	21.85	165	5.93	442.1	1.42	10.1		
1350	21.80	–	7	21.88	165	5.96	453.9	1.40	8.1		
1355	21.80	–	8	21.57	165	6.07	469.5	1.41	9.1		
1400	21.80	–	9	21.68	165	6.10	473.9	1.42	8.2		
1405	21.80	–	10	21.86	165	6.11	473.8	1.46	8.5		
Criteria	0.33'	0.2-0.5 L/min			+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%		

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: Hanna 9829

Parameters Stabilized (circle): YES NO If no, why?

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
3	8260 VOC	40 mL VOA	HCl	Pace	10/10/17	1410

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 10/10/17 Time: 1550
Apex Personnel: K. Schwarz
Location (Site/Facility Name): CMC Athens

Monitor Well Number: MW-11
Purpose of Sampling Event: Semiannual
Weather/Temp: Sunny / 80°F

Circle:

Measuring Point (MP): top of casing, top of ground
Depth to Product (MP):
Depth to Water (MP): 22.13
Total Depth of Well (MP): 35 (0.1')
Water Column thickness (ft):
Well Material: PVC, Stainless Steel, Other:
Well pad condition: Good, Cracked, Replace

Low Flow purge rate: 200 mL/min
Well Cover Bolted: Yes No stick up locked
Well Cap Condition: Good Replaced
Well Cap Locked: Yes, No, Replaced
Well Tag Present: Yes No
Well Info. On Tag: Yes No
Well Diameter (in): 2

Well Type: surface completion, above grade
Well Screen Length: 5, 10, 15, 20 feet; 25-35
Pump Intake depth below water (MP): 30
Purging/Sampling Device: Bailer, Peristaltic, Monsoon, Grundfos;
OTHER:
Noticeable Odor: slight odor
Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	gallons	Liters	°C	µS/cm		mV	mg/L	NTU	
Initial	22.13	—	—	23.10	64	6.61	197.4	1.30	81.4	
1555	22.26	—	1	22.61	65	6.67	229.9	0.91	79.4	
1600	22.30	—	2	22.58	65	6.72	241.3	0.90	58.2	
1605	22.30	—	3	22.53	65	7.19	255.5	0.87	41.2	
1610	22.30	—	4	22.71	64	7.41	260.8	0.86	37.9	
1615		—	5	22.84	64	7.80	264.3	0.92	37.0	
1620		—	6	22.79	64	7.96	266.0	0.91	35.7	
1625		—	7	22.61	64	8.17	267.2	0.88	33.3	
1630		—	8	22.43	63	8.22	269.0	0.89	32.9	
1635	↓	—	9	22.68	63	8.15	272.6	0.93	33.1	
Criteria	0.33'	0.2-0.5 L/min			+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:
Stick up removed due to obstruction at 3.5' btoc. TOC measured is at ground level

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: Hanna 9829

Parameters Stabilized (circle): YES NO If no, why?

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
3	~~4260~~ 8260 VOC	40 mL VOA	HCl	Pace	10/10/17	1640

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 10/11/17 Time: 1325
Apex Personnel: K. Schwarz
Location (Site/Facility Name): CMC Athens
Circle:

Monitor Well Number: MW-12
Purpose of Sampling Event: semiannual
Weather/Temp: sunny | 80°F

Measuring Point (MP): top of casing, top of ground
Depth to Product (MP):
Depth to Water (MP): 19.30
Total Depth of Well (MP): 35 (0.1')
Water Column thickness (ft):
Well Material: PVC, Stainless Steel, Other:
Well pad condition: Good, Cracked, Replace

Low Flow purge rate: 200 mL/min
Well Cover Bolted: Yes No
Well Cap Condition: Good Replaced
Well Cap Locked: Yes, No, Replaced
Well Tag Present: Yes No
Well Info. On Tag: Yes No
Well Diameter (in): 2

Well Type: surface completion, above grade
Well Screen Length: 5, 10, 15, 20 feet; 25-35
Pump Intake depth below water (MP): 30
Purging/Sampling Device: Bailer, Peristaltic, Monsoon, Grundfos;
OTHER:
Noticeable Odor: none
Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments	Field Comments/Site Conditions, etc.:
min.	Feet	gallons	Liters	°C	µS/cm		mV	mg/L	NTU		
Initial	19.30	—	—	25.05	67	7.61	215.0	3.24	2.4		
1330	19.62	—	1	24.73	67	7.53	231.5	3.55	2.0		
1335	19.74	—	2	24.48	66	7.25	238.6	3.49	1.8		
1340	19.74	—	3	24.41	66	6.86	248.0	3.56	1.4		
1345	19.74	—	4	23.97	66	6.71	251.6	3.59	1.1		
1350	19.74	—	5	24.07	66	6.52	251.6	3.55	1.5		
1355	19.74	—	6	24.39	66	6.38	243.4	3.33	2.4		
1400	19.74	—	7	23.91	66	6.43	245.8	3.42	2.0		
1405	19.74	—	8	24.76	65	6.39	249.6	3.51	2.6		
Criteria	0.33'	0.2-0.5 L/min			+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%		

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: Hanna 9829

Parameters Stabilized (circle): YES NO If no, why?

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
3	8260 VOC	40 ml VOA	HCl	Pace	10/11/17	1410

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 10/11/17 Time: 0905
Apex Personnel: K. Schwarz
Location (Site/Facility Name): CMC Athens
Monitor Well Number: MW-14
Purpose of Sampling Event: semiannual
Weather/Temp: overcast / 75°F

Circle:

Measuring Point (MP): top of casing, top of ground
Depth to Product (MP):
Depth to Water (MP): 19.34
Total Depth of Well (MP): 35 (0.1')
Water Column thickness (ft):
Well Material: PVC, Stainless Steel, Other:
Well pad condition: Good, Cracked, Replace

Low Flow purge rate: 200 mL/min
Well Cover Bolted: Yes No stickup leaked
Well Cap Condition: Good Replaced
Well Cap Locked: Yes, No, Replaced
Well Tag Present: Yes No
Well Info. On Tag: Yes No
Well Diameter (in): 2

Well Type: surface completion, above grade
Well Screen Length: 5, 10, 15, 20 feet; 25-35
Pump Intake depth below water (MP): 30
Purging/Sampling Device: Bailer, Peristaltic, Monsoon, Grundfos;
OTHER:
Noticeable Odor: none
Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	gallons	Liters	°C	µS/cm		mV	mg/L	NTU	
Initial	19.34	–	–	22.62	631	5.91	216.5	6.56	22.2	
0910	19.57	–	1	22.14	646	5.90	186.2	1.32	14.1	
0915	19.61	–	2	22.31	648	5.86	181.3	1.08	14.4	
0920	19.61	–	3	22.30	649	5.84	180.4	1.02	14.1	
0925	19.61	–	4	22.26	647	5.83	179.2	1.01	14.3	
Criteria	0.33'	0.2-0.5 L/min			+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:
was able to get tubing down well but well damaged - obstruction ~2ft btoc

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: Hanna 9829

Parameters Stabilized (circle): YES NO If no, why?

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
3	VOC 8260	40mL VOA	HCl	Pace	10/11/17	0930

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:	APEX Companies - NC
Address:	1135 Kildaire Farm Rd.
	Cary, NC 27511
Email:	grant.watkins@apexcos.com
Phone:	980-417-9935 Fax
Requested Due Date:	Std

Section B — Required Project Information:

Report To:	Grant Watkins
Copy To:	
Purchase Order #:	
Project Name:	CMC Athens SemiAnnual GW event
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	Trinity Limits
Address:	
Pace Quote:	
Pace Project Manager:	trey.carter@pacelabs.com,
Pace Profile #:	8490-1

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test	8260 Full List	Trip BLANK	Residual Chlorine (Y/N)
1	MW-1						1530		3				X						X	X		
2	MW-1D						1455		3				X						X	X		
3	MW-3A						1415		3				X						X	X		
4	DUP101217						-		3				X						X	X		
5	MW-9A						1210		3				X						X	X		
6	MW-10						1440		3				X						X	X		
7	MW-11						1140		3				X						X	X		
8	MW-14						1210		3				X						X	X		
9	MW-4A						1255		3				X						X	X		
10	MW-12						1410		3				X						X	X		
11													X							X		
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Pace	10-12-17	1147	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

APPENDIX B

LABORATORY ANALYTICAL REPORT FOR MONITORING WELL SAMPLES

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

October 18, 2017

Grant Watkins
Apex Companies
1135 Kildaire Farm Rd.
Suite 200
Cary, NC 27511

RE: Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Dear Grant Watkins:
Enclosed are the analytical results for sample(s) received by the laboratory on October 12, 2017. 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,

Trey Carter
trey.carter@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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

CERTIFICATIONS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92358909001	**MW-1**	Water	10/10/17 15:30	10/12/17 11:47
92358909002	**MW-1D**	Water	10/11/17 11:05	10/12/17 11:47
92358909003	**MW-3A**	Water	10/11/17 08:05	10/12/17 11:47
92358909004	**DUP10112017**	Water	10/11/17 00:00	10/12/17 11:47
92358909005	**MW-9A**	Water	10/11/17 12:10	10/12/17 11:47
92358909006	**MW-10**	Water	10/10/17 14:10	10/12/17 11:47
92358909007	**MW-11**	Water	10/10/17 16:40	10/12/17 11:47
92358909008	**MW-14**	Water	10/11/17 09:30	10/12/17 11:47
92358909009	**MW-4A**	Water	10/11/17 12:55	10/12/17 11:47
92358909010	**MW-12**	Water	10/11/17 14:10	10/12/17 11:47
92358909011	**TRIP BLANK**	Water	10/11/17 00:00	10/12/17 11:47

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

SAMPLE ANALYTE COUNT

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92358909001	**MW-1**	EPA 8260	ZDO	63	PASI-C
92358909002	**MW-1D**	EPA 8260	ZDO	63	PASI-C
92358909003	**MW-3A**	EPA 8260	ZDO	63	PASI-C
92358909004	**DUP10112017**	EPA 8260	ZDO	63	PASI-C
92358909005	**MW-9A**	EPA 8260	ZDO	63	PASI-C
92358909006	**MW-10**	EPA 8260	ZDO	63	PASI-C
92358909007	**MW-11**	EPA 8260	ZDO	63	PASI-C
92358909008	**MW-14**	EPA 8260	ZDO	63	PASI-C
92358909009	**MW-4A**	EPA 8260	ZDO	63	PASI-C
92358909010	**MW-12**	EPA 8260	ZDO	63	PASI-C
92358909011	**TRIP BLANK**	EPA 8260	ZDO	63	PASI-C

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

ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-1 **Lab ID: 92358909001** Collected: 10/10/17 15:30 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/17/17 17:21	67-64-1	
Benzene	**1.7**	ug/L	1.0	0.25	1		10/17/17 17:21	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/17/17 17:21	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/17/17 17:21	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/17/17 17:21	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/17/17 17:21	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/17/17 17:21	74-83-9	M1
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/17/17 17:21	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/17/17 17:21	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/17/17 17:21	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/17/17 17:21	75-00-3	
Chloroform	**19.1**	ug/L	1.0	0.14	1		10/17/17 17:21	67-66-3	
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/17/17 17:21	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/17/17 17:21	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/17/17 17:21	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/17/17 17:21	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/17/17 17:21	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/17/17 17:21	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/17/17 17:21	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/17/17 17:21	95-50-1	
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/17/17 17:21	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/17/17 17:21	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/17/17 17:21	75-71-8	
1,1-Dichloroethane	**1.1**	ug/L	1.0	0.32	1		10/17/17 17:21	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/17/17 17:21	107-06-2	
1,1-Dichloroethene	**1.0**	ug/L	1.0	0.56	1		10/17/17 17:21	75-35-4	
cis-1,2-Dichloroethene	**2.2**	ug/L	1.0	0.19	1		10/17/17 17:21	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/17/17 17:21	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/17/17 17:21	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/17/17 17:21	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/17/17 17:21	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/17/17 17:21	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/17/17 17:21	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/17/17 17:21	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/17/17 17:21	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/17/17 17:21	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/17/17 17:21	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/17/17 17:21	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/17/17 17:21	99-87-6	
Methylene Chloride	**1.5J**	ug/L	2.0	0.97	1		10/17/17 17:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/17/17 17:21	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/17/17 17:21	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/17/17 17:21	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/17/17 17:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/17/17 17:21	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/17/17 17:21	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-1 **Lab ID: 92358909001** Collected: 10/10/17 15:30 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**1.7**	ug/L	1.0	0.46	1		10/17/17 17:21	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/17/17 17:21	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/17/17 17:21	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/17/17 17:21	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/17/17 17:21	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/17/17 17:21	79-00-5	
Trichloroethene	**1.8**	ug/L	1.0	0.47	1		10/17/17 17:21	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/17/17 17:21	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/17/17 17:21	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/17/17 17:21	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/17/17 17:21	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/17/17 17:21	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/17/17 17:21	179601-23-1	
o-Xylene	**0.26J**	ug/L	1.0	0.23	1		10/17/17 17:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/17/17 17:21	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		10/17/17 17:21	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		10/17/17 17:21	2037-26-5	

Sample: MW-1D **Lab ID: 92358909002** Collected: 10/11/17 11:05 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/17/17 17:39	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/17/17 17:39	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/17/17 17:39	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/17/17 17:39	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/17/17 17:39	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/17/17 17:39	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/17/17 17:39	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/17/17 17:39	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/17/17 17:39	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/17/17 17:39	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/17/17 17:39	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/17/17 17:39	67-66-3	
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/17/17 17:39	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/17/17 17:39	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/17/17 17:39	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/17/17 17:39	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/17/17 17:39	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/17/17 17:39	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/17/17 17:39	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/17/17 17:39	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-1D **Lab ID: 92358909002** Collected: 10/11/17 11:05 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/17/17 17:39	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/17/17 17:39	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/17/17 17:39	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/17/17 17:39	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/17/17 17:39	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/17/17 17:39	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/L	1.0	0.19	1		10/17/17 17:39	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/17/17 17:39	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/17/17 17:39	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/17/17 17:39	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/17/17 17:39	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/17/17 17:39	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/17/17 17:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/17/17 17:39	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/17/17 17:39	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/17/17 17:39	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/17/17 17:39	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/17/17 17:39	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/17/17 17:39	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/17/17 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/17/17 17:39	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/17/17 17:39	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/17/17 17:39	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/17/17 17:39	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/17/17 17:39	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/17/17 17:39	79-34-5	
Tetrachloroethene	**1.2**	ug/L	1.0	0.46	1		10/17/17 17:39	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/17/17 17:39	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/17/17 17:39	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/17/17 17:39	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/17/17 17:39	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/17/17 17:39	79-00-5	
Trichloroethene	**15.3**	ug/L	1.0	0.47	1		10/17/17 17:39	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/17/17 17:39	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/17/17 17:39	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/17/17 17:39	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/17/17 17:39	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/17/17 17:39	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/17/17 17:39	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/17/17 17:39	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/17/17 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		1		10/17/17 17:39	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/17/17 17:39	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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-3A **Lab ID: 92358909003** Collected: 10/11/17 08:05 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/17/17 17:56	67-64-1	
Benzene	**7.4**	ug/L	1.0	0.25	1		10/17/17 17:56	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/17/17 17:56	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/17/17 17:56	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/17/17 17:56	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/17/17 17:56	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/17/17 17:56	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/17/17 17:56	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/17/17 17:56	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/17/17 17:56	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/17/17 17:56	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/17/17 17:56	67-66-3	
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/17/17 17:56	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/17/17 17:56	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/17/17 17:56	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/17/17 17:56	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/17/17 17:56	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/17/17 17:56	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/17/17 17:56	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/17/17 17:56	95-50-1	
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/17/17 17:56	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/17/17 17:56	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/17/17 17:56	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/17/17 17:56	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/17/17 17:56	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/17/17 17:56	75-35-4	
cis-1,2-Dichloroethene	**1.0**	ug/L	1.0	0.19	1		10/17/17 17:56	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/17/17 17:56	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/17/17 17:56	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/17/17 17:56	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/17/17 17:56	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/17/17 17:56	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/17/17 17:56	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/17/17 17:56	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/17/17 17:56	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/17/17 17:56	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/17/17 17:56	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/17/17 17:56	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/17/17 17:56	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/17/17 17:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/17/17 17:56	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/17/17 17:56	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/17/17 17:56	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/17/17 17:56	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/17/17 17:56	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/17/17 17:56	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-3A **Lab ID: 92358909003** Collected: 10/11/17 08:05 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/17/17 17:56	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/17/17 17:56	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/17/17 17:56	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/17/17 17:56	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/17/17 17:56	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/17/17 17:56	79-00-5	
Trichloroethene	**2.5**	ug/L	1.0	0.47	1		10/17/17 17:56	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/17/17 17:56	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/17/17 17:56	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/17/17 17:56	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/17/17 17:56	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/17/17 17:56	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/17/17 17:56	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/17/17 17:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/17/17 17:56	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		10/17/17 17:56	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/17/17 17:56	2037-26-5	

Sample: DUP10112017 **Lab ID: 92358909004** Collected: 10/11/17 00:00 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/16/17 00:17	67-64-1	
Benzene	**7.5**	ug/L	1.0	0.25	1		10/16/17 00:17	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 00:17	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/16/17 00:17	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/16/17 00:17	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/16/17 00:17	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/16/17 00:17	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/16/17 00:17	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/16/17 00:17	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/16/17 00:17	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/16/17 00:17	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/16/17 00:17	67-66-3	
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/16/17 00:17	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/16/17 00:17	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/16/17 00:17	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/16/17 00:17	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 00:17	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/16/17 00:17	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 00:17	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 00:17	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: DUP10112017 **Lab ID: 92358909004** Collected: 10/11/17 00:00 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/16/17 00:17	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/16/17 00:17	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 00:17	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/16/17 00:17	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/16/17 00:17	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/16/17 00:17	75-35-4	
cis-1,2-Dichloroethene	**0.89J**	ug/L	1.0	0.19	1		10/16/17 00:17	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/16/17 00:17	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/16/17 00:17	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/16/17 00:17	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/16/17 00:17	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/16/17 00:17	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/16/17 00:17	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 00:17	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/16/17 00:17	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 00:17	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/16/17 00:17	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/16/17 00:17	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/16/17 00:17	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/16/17 00:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**4.4J**	ug/L	5.0	0.33	1		10/16/17 00:17	108-10-1	C8
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/16/17 00:17	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/16/17 00:17	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 00:17	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/16/17 00:17	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/16/17 00:17	79-34-5	
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/16/17 00:17	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 00:17	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/16/17 00:17	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/16/17 00:17	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/16/17 00:17	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/16/17 00:17	79-00-5	
Trichloroethene	**2.9**	ug/L	1.0	0.47	1		10/16/17 00:17	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/16/17 00:17	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/16/17 00:17	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/16/17 00:17	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/16/17 00:17	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/16/17 00:17	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/16/17 00:17	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/16/17 00:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/16/17 00:17	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		10/16/17 00:17	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/16/17 00:17	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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-9A **Lab ID: 92358909005** Collected: 10/11/17 12:10 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/16/17 00:34	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/16/17 00:34	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 00:34	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/16/17 00:34	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/16/17 00:34	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/16/17 00:34	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/16/17 00:34	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/16/17 00:34	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/16/17 00:34	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/16/17 00:34	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/16/17 00:34	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/16/17 00:34	67-66-3	
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/16/17 00:34	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/16/17 00:34	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/16/17 00:34	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/16/17 00:34	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 00:34	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/16/17 00:34	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 00:34	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 00:34	95-50-1	
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/16/17 00:34	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/16/17 00:34	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 00:34	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/16/17 00:34	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/16/17 00:34	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/16/17 00:34	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/L	1.0	0.19	1		10/16/17 00:34	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/16/17 00:34	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/16/17 00:34	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/16/17 00:34	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/16/17 00:34	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/16/17 00:34	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/16/17 00:34	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 00:34	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/16/17 00:34	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 00:34	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/16/17 00:34	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/16/17 00:34	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/16/17 00:34	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/16/17 00:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	**4.4J**	ug/L	5.0	0.33	1		10/16/17 00:34	108-10-1	C8
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/16/17 00:34	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/16/17 00:34	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 00:34	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/16/17 00:34	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/16/17 00:34	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-9A **Lab ID: 92358909005** Collected: 10/11/17 12:10 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/16/17 00:34	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 00:34	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/16/17 00:34	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/16/17 00:34	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/16/17 00:34	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/16/17 00:34	79-00-5	
Trichloroethene	**<0.47**	ug/L	1.0	0.47	1		10/16/17 00:34	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/16/17 00:34	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/16/17 00:34	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/16/17 00:34	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/16/17 00:34	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/16/17 00:34	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/16/17 00:34	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/16/17 00:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/16/17 00:34	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/16/17 00:34	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/16/17 00:34	2037-26-5	

Sample: MW-10 **Lab ID: 92358909006** Collected: 10/10/17 14:10 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/16/17 00:51	67-64-1	
Benzene	**1.2**	ug/L	1.0	0.25	1		10/16/17 00:51	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 00:51	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/16/17 00:51	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/16/17 00:51	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/16/17 00:51	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/16/17 00:51	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/16/17 00:51	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/16/17 00:51	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/16/17 00:51	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/16/17 00:51	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/16/17 00:51	67-66-3	
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/16/17 00:51	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/16/17 00:51	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/16/17 00:51	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/16/17 00:51	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 00:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/16/17 00:51	106-93-4	
Dibromomethane	**1.0J**	ug/L	1.0	0.21	1		10/16/17 00:51	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 00:51	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-10 **Lab ID: 92358909006** Collected: 10/10/17 14:10 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/16/17 00:51	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/16/17 00:51	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 00:51	75-71-8	
1,1-Dichloroethane	**0.44J**	ug/L	1.0	0.32	1		10/16/17 00:51	75-34-3	
1,2-Dichloroethane	**0.26J**	ug/L	1.0	0.24	1		10/16/17 00:51	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/16/17 00:51	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/L	1.0	0.19	1		10/16/17 00:51	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/16/17 00:51	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/16/17 00:51	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/16/17 00:51	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/16/17 00:51	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/16/17 00:51	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/16/17 00:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 00:51	10061-02-6	
Diisopropyl ether	**0.44J**	ug/L	1.0	0.12	1		10/16/17 00:51	108-20-3	
Ethylbenzene	**0.63J**	ug/L	1.0	0.30	1		10/16/17 00:51	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/16/17 00:51	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/16/17 00:51	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/16/17 00:51	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/16/17 00:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**4.6J**	ug/L	5.0	0.33	1		10/16/17 00:51	108-10-1	C8
Methyl-tert-butyl ether	**1.6**	ug/L	1.0	0.21	1		10/16/17 00:51	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/16/17 00:51	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 00:51	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/16/17 00:51	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/16/17 00:51	79-34-5	
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/16/17 00:51	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 00:51	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/16/17 00:51	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/16/17 00:51	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/16/17 00:51	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/16/17 00:51	79-00-5	
Trichloroethene	**<0.47**	ug/L	1.0	0.47	1		10/16/17 00:51	79-01-6	
Trichlorofluoromethane	**2.9**	ug/L	1.0	0.20	1		10/16/17 00:51	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/16/17 00:51	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/16/17 00:51	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/16/17 00:51	75-01-4	
Xylene (Total)	**2.6**	ug/L	1.0	1.0	1		10/16/17 00:51	1330-20-7	
m&p-Xylene	**0.93J**	ug/L	2.0	0.66	1		10/16/17 00:51	179601-23-1	
o-Xylene	**2.6**	ug/L	1.0	0.23	1		10/16/17 00:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/16/17 00:51	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		10/16/17 00:51	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/16/17 00:51	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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-11 **Lab ID: 92358909007** Collected: 10/10/17 16:40 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<40.0**	ug/L	100	40.0	4		10/17/17 18:13	67-64-1	
Benzene	**12.7**	ug/L	4.0	1.0	4		10/17/17 18:13	71-43-2	
Bromobenzene	**<1.2**	ug/L	4.0	1.2	4		10/17/17 18:13	108-86-1	
Bromochloromethane	**<0.68**	ug/L	4.0	0.68	4		10/17/17 18:13	74-97-5	
Bromodichloromethane	**<0.72**	ug/L	4.0	0.72	4		10/17/17 18:13	75-27-4	
Bromoform	**<1.0**	ug/L	4.0	1.0	4		10/17/17 18:13	75-25-2	
Bromomethane	**<1.2**	ug/L	8.0	1.2	4		10/17/17 18:13	74-83-9	
2-Butanone (MEK)	**<3.8**	ug/L	20.0	3.8	4		10/17/17 18:13	78-93-3	
Carbon tetrachloride	**<1.0**	ug/L	4.0	1.0	4		10/17/17 18:13	56-23-5	
Chlorobenzene	**<0.92**	ug/L	4.0	0.92	4		10/17/17 18:13	108-90-7	
Chloroethane	**<2.2**	ug/L	4.0	2.2	4		10/17/17 18:13	75-00-3	
Chloroform	**1.6J**	ug/L	4.0	0.56	4		10/17/17 18:13	67-66-3	
Chloromethane	**<0.44**	ug/L	4.0	0.44	4		10/17/17 18:13	74-87-3	
2-Chlorotoluene	**<1.4**	ug/L	4.0	1.4	4		10/17/17 18:13	95-49-8	
4-Chlorotoluene	**<1.2**	ug/L	4.0	1.2	4		10/17/17 18:13	106-43-4	
1,2-Dibromo-3-chloropropane	**<8.0**	ug/L	8.0	8.0	4		10/17/17 18:13	96-12-8	
Dibromochloromethane	**<0.84**	ug/L	4.0	0.84	4		10/17/17 18:13	124-48-1	
1,2-Dibromoethane (EDB)	**<1.1**	ug/L	4.0	1.1	4		10/17/17 18:13	106-93-4	
Dibromomethane	**<0.84**	ug/L	4.0	0.84	4		10/17/17 18:13	74-95-3	
1,2-Dichlorobenzene	**<1.2**	ug/L	4.0	1.2	4		10/17/17 18:13	95-50-1	
1,3-Dichlorobenzene	**<0.96**	ug/L	4.0	0.96	4		10/17/17 18:13	541-73-1	
1,4-Dichlorobenzene	**<1.3**	ug/L	4.0	1.3	4		10/17/17 18:13	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/L	4.0	0.84	4		10/17/17 18:13	75-71-8	
1,1-Dichloroethane	**<1.3**	ug/L	4.0	1.3	4		10/17/17 18:13	75-34-3	
1,2-Dichloroethane	**<0.96**	ug/L	4.0	0.96	4		10/17/17 18:13	107-06-2	
1,1-Dichloroethene	**7.8**	ug/L	4.0	2.2	4		10/17/17 18:13	75-35-4	
cis-1,2-Dichloroethene	**5.6**	ug/L	4.0	0.76	4		10/17/17 18:13	156-59-2	
trans-1,2-Dichloroethene	**<2.0**	ug/L	4.0	2.0	4		10/17/17 18:13	156-60-5	
1,2-Dichloropropane	**<1.1**	ug/L	4.0	1.1	4		10/17/17 18:13	78-87-5	
1,3-Dichloropropane	**<1.1**	ug/L	4.0	1.1	4		10/17/17 18:13	142-28-9	
2,2-Dichloropropane	**<0.52**	ug/L	4.0	0.52	4		10/17/17 18:13	594-20-7	
1,1-Dichloropropene	**<2.0**	ug/L	4.0	2.0	4		10/17/17 18:13	563-58-6	
cis-1,3-Dichloropropene	**<0.52**	ug/L	4.0	0.52	4		10/17/17 18:13	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	4.0	1.0	4		10/17/17 18:13	10061-02-6	
Diisopropyl ether	**<0.48**	ug/L	4.0	0.48	4		10/17/17 18:13	108-20-3	
Ethylbenzene	**<1.2**	ug/L	4.0	1.2	4		10/17/17 18:13	100-41-4	
Hexachloro-1,3-butadiene	**<2.8**	ug/L	4.0	2.8	4		10/17/17 18:13	87-68-3	
2-Hexanone	**<1.8**	ug/L	20.0	1.8	4		10/17/17 18:13	591-78-6	
p-Isopropyltoluene	**<1.2**	ug/L	4.0	1.2	4		10/17/17 18:13	99-87-6	
Methylene Chloride	**10.8**	ug/L	8.0	3.9	4		10/17/17 18:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.3**	ug/L	20.0	1.3	4		10/17/17 18:13	108-10-1	
Methyl-tert-butyl ether	**<0.84**	ug/L	4.0	0.84	4		10/17/17 18:13	1634-04-4	
Naphthalene	**<0.96**	ug/L	4.0	0.96	4		10/17/17 18:13	91-20-3	
Styrene	**<1.0**	ug/L	4.0	1.0	4		10/17/17 18:13	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.3**	ug/L	4.0	1.3	4		10/17/17 18:13	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.6**	ug/L	4.0	1.6	4		10/17/17 18:13	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-11 **Lab ID: 92358909007** Collected: 10/10/17 16:40 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**3.6J**	ug/L	4.0	1.8	4		10/17/17 18:13	127-18-4	
Toluene	**<1.0**	ug/L	4.0	1.0	4		10/17/17 18:13	108-88-3	
1,2,3-Trichlorobenzene	**<1.3**	ug/L	4.0	1.3	4		10/17/17 18:13	87-61-6	
1,2,4-Trichlorobenzene	**<1.4**	ug/L	4.0	1.4	4		10/17/17 18:13	120-82-1	
1,1,1-Trichloroethane	**<1.9**	ug/L	4.0	1.9	4		10/17/17 18:13	71-55-6	
1,1,2-Trichloroethane	**<1.2**	ug/L	4.0	1.2	4		10/17/17 18:13	79-00-5	
Trichloroethene	**450**	ug/L	4.0	1.9	4		10/17/17 18:13	79-01-6	
Trichlorofluoromethane	**<0.80**	ug/L	4.0	0.80	4		10/17/17 18:13	75-69-4	
1,2,3-Trichloropropane	**<1.6**	ug/L	4.0	1.6	4		10/17/17 18:13	96-18-4	
Vinyl acetate	**<1.4**	ug/L	8.0	1.4	4		10/17/17 18:13	108-05-4	
Vinyl chloride	**<2.5**	ug/L	4.0	2.5	4		10/17/17 18:13	75-01-4	
Xylene (Total)	**<4.0**	ug/L	4.0	4.0	4		10/17/17 18:13	1330-20-7	
m&p-Xylene	**<2.6**	ug/L	8.0	2.6	4		10/17/17 18:13	179601-23-1	
o-Xylene	**<0.92**	ug/L	4.0	0.92	4		10/17/17 18:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		4		10/17/17 18:13	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		4		10/17/17 18:13	17060-07-0	
Toluene-d8 (S)	109	%	70-130		4		10/17/17 18:13	2037-26-5	

Sample: MW-14 **Lab ID: 92358909008** Collected: 10/11/17 09:30 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/16/17 01:26	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/16/17 01:26	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 01:26	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/16/17 01:26	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/16/17 01:26	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/16/17 01:26	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/16/17 01:26	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/16/17 01:26	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/16/17 01:26	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/16/17 01:26	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/16/17 01:26	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/16/17 01:26	67-66-3	
Chloromethane	**0.26J**	ug/L	1.0	0.11	1		10/16/17 01:26	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/16/17 01:26	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/16/17 01:26	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/16/17 01:26	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 01:26	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/16/17 01:26	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 01:26	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 01:26	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-14 **Lab ID: 92358909008** Collected: 10/11/17 09:30 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/16/17 01:26	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/16/17 01:26	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 01:26	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/16/17 01:26	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/16/17 01:26	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/16/17 01:26	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/L	1.0	0.19	1		10/16/17 01:26	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/16/17 01:26	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/16/17 01:26	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/16/17 01:26	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/16/17 01:26	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/16/17 01:26	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/16/17 01:26	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 01:26	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/16/17 01:26	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 01:26	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/16/17 01:26	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/16/17 01:26	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/16/17 01:26	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/16/17 01:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3.9J**	ug/L	5.0	0.33	1		10/16/17 01:26	108-10-1	C8
Methyl-tert-butyl ether	**0.85J**	ug/L	1.0	0.21	1		10/16/17 01:26	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/16/17 01:26	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 01:26	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/16/17 01:26	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/16/17 01:26	79-34-5	
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/16/17 01:26	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 01:26	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/16/17 01:26	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/16/17 01:26	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/16/17 01:26	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/16/17 01:26	79-00-5	
Trichloroethene	**0.58J**	ug/L	1.0	0.47	1		10/16/17 01:26	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/16/17 01:26	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/16/17 01:26	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/16/17 01:26	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/16/17 01:26	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/16/17 01:26	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/16/17 01:26	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/16/17 01:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/16/17 01:26	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/16/17 01:26	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/16/17 01:26	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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-4A **Lab ID: 92358909009** Collected: 10/11/17 12:55 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**37.2**	ug/L	25.0	10.0	1		10/16/17 01:43	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/16/17 01:43	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 01:43	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/16/17 01:43	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/16/17 01:43	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/16/17 01:43	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/16/17 01:43	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/16/17 01:43	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/16/17 01:43	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/16/17 01:43	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/16/17 01:43	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/16/17 01:43	67-66-3	
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/16/17 01:43	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/16/17 01:43	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/16/17 01:43	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/16/17 01:43	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 01:43	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/16/17 01:43	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 01:43	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 01:43	95-50-1	
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/16/17 01:43	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/16/17 01:43	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/16/17 01:43	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/16/17 01:43	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/16/17 01:43	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/16/17 01:43	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/L	1.0	0.19	1		10/16/17 01:43	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/16/17 01:43	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/16/17 01:43	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/16/17 01:43	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/16/17 01:43	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/16/17 01:43	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/16/17 01:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 01:43	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/16/17 01:43	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/16/17 01:43	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/16/17 01:43	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/16/17 01:43	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/16/17 01:43	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/16/17 01:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**4.3J**	ug/L	5.0	0.33	1		10/16/17 01:43	108-10-1	C8
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/16/17 01:43	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/16/17 01:43	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 01:43	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/16/17 01:43	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/16/17 01:43	79-34-5	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-4A **Lab ID: 92358909009** Collected: 10/11/17 12:55 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/16/17 01:43	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/16/17 01:43	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/16/17 01:43	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/16/17 01:43	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/16/17 01:43	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/16/17 01:43	79-00-5	
Trichloroethene	**0.74J**	ug/L	1.0	0.47	1		10/16/17 01:43	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/16/17 01:43	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/16/17 01:43	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/16/17 01:43	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/16/17 01:43	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/16/17 01:43	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/16/17 01:43	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/16/17 01:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/16/17 01:43	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		10/16/17 01:43	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/16/17 01:43	2037-26-5	

Sample: MW-12 **Lab ID: 92358909010** Collected: 10/11/17 14:10 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/18/17 10:03	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/18/17 10:03	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 10:03	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/18/17 10:03	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/18/17 10:03	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/18/17 10:03	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/18/17 10:03	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/18/17 10:03	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/18/17 10:03	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 10:03	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/18/17 10:03	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/18/17 10:03	67-66-3	
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/18/17 10:03	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 10:03	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 10:03	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/18/17 10:03	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 10:03	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/18/17 10:03	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 10:03	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 10:03	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: MW-12 **Lab ID: 92358909010** Collected: 10/11/17 14:10 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 10:03	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 10:03	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 10:03	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/18/17 10:03	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/18/17 10:03	107-06-2	
1,1-Dichloroethene	**7.3**	ug/L	1.0	0.56	1		10/18/17 10:03	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/L	1.0	0.19	1		10/18/17 10:03	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 10:03	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/18/17 10:03	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/18/17 10:03	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/18/17 10:03	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 10:03	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/18/17 10:03	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 10:03	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/18/17 10:03	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 10:03	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/18/17 10:03	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/18/17 10:03	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 10:03	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/18/17 10:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/18/17 10:03	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/18/17 10:03	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 10:03	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 10:03	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/18/17 10:03	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/18/17 10:03	79-34-5	
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/18/17 10:03	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 10:03	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 10:03	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 10:03	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/18/17 10:03	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/18/17 10:03	79-00-5	
Trichloroethene	**<0.47**	ug/L	1.0	0.47	1		10/18/17 10:03	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/18/17 10:03	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/18/17 10:03	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/18/17 10:03	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/18/17 10:03	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/18/17 10:03	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/18/17 10:03	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 10:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/18/17 10:03	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/18/17 10:03	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		10/18/17 10:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: TRIP BLANK **Lab ID: 92358909011** Collected: 10/11/17 00:00 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/12/17 17:56	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/12/17 17:56	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/12/17 17:56	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/12/17 17:56	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/12/17 17:56	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/12/17 17:56	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/12/17 17:56	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/12/17 17:56	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/12/17 17:56	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/12/17 17:56	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/12/17 17:56	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/12/17 17:56	67-66-3	
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/12/17 17:56	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/12/17 17:56	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/12/17 17:56	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/12/17 17:56	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/12/17 17:56	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/12/17 17:56	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/12/17 17:56	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/12/17 17:56	95-50-1	
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/12/17 17:56	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/12/17 17:56	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/12/17 17:56	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/12/17 17:56	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/12/17 17:56	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/12/17 17:56	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/L	1.0	0.19	1		10/12/17 17:56	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/12/17 17:56	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/12/17 17:56	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/12/17 17:56	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/12/17 17:56	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/12/17 17:56	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/12/17 17:56	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/12/17 17:56	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/12/17 17:56	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/12/17 17:56	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/12/17 17:56	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/12/17 17:56	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/12/17 17:56	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/12/17 17:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/12/17 17:56	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/12/17 17:56	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/12/17 17:56	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/12/17 17:56	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/12/17 17:56	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/12/17 17:56	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Sample: TRIP BLANK **Lab ID: 92358909011** Collected: 10/11/17 00:00 Received: 10/12/17 11:47 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/12/17 17:56	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/12/17 17:56	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/12/17 17:56	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/12/17 17:56	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/12/17 17:56	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/12/17 17:56	79-00-5	
Trichloroethene	**<0.47**	ug/L	1.0	0.47	1		10/12/17 17:56	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/12/17 17:56	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/12/17 17:56	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/12/17 17:56	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/12/17 17:56	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/12/17 17:56	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/12/17 17:56	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/12/17 17:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/12/17 17:56	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/12/17 17:56	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		10/12/17 17:56	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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

QC Batch: 382178 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92358909011

METHOD BLANK: 2117935 Matrix: Water
Associated Lab Samples: 92358909011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.33	1.0	0.33	10/12/17 16:30	
1,1,1-Trichloroethane	ug/L	<0.48	1.0	0.48	10/12/17 16:30	
1,1,2,2-Tetrachloroethane	ug/L	<0.40	1.0	0.40	10/12/17 16:30	
1,1,2-Trichloroethane	ug/L	<0.29	1.0	0.29	10/12/17 16:30	
1,1-Dichloroethane	ug/L	<0.32	1.0	0.32	10/12/17 16:30	
1,1-Dichloroethene	ug/L	<0.56	1.0	0.56	10/12/17 16:30	
1,1-Dichloropropene	ug/L	<0.49	1.0	0.49	10/12/17 16:30	
1,2,3-Trichlorobenzene	ug/L	<0.33	1.0	0.33	10/12/17 16:30	
1,2,3-Trichloropropane	ug/L	<0.41	1.0	0.41	10/12/17 16:30	
1,2,4-Trichlorobenzene	ug/L	<0.35	1.0	0.35	10/12/17 16:30	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	2.0	10/12/17 16:30	
1,2-Dibromoethane (EDB)	ug/L	<0.27	1.0	0.27	10/12/17 16:30	
1,2-Dichlorobenzene	ug/L	<0.30	1.0	0.30	10/12/17 16:30	
1,2-Dichloroethane	ug/L	<0.24	1.0	0.24	10/12/17 16:30	
1,2-Dichloropropane	ug/L	<0.27	1.0	0.27	10/12/17 16:30	
1,3-Dichlorobenzene	ug/L	<0.24	1.0	0.24	10/12/17 16:30	
1,3-Dichloropropane	ug/L	<0.28	1.0	0.28	10/12/17 16:30	
1,4-Dichlorobenzene	ug/L	<0.33	1.0	0.33	10/12/17 16:30	
2,2-Dichloropropane	ug/L	<0.13	1.0	0.13	10/12/17 16:30	
2-Butanone (MEK)	ug/L	<0.96	5.0	0.96	10/12/17 16:30	
2-Chlorotoluene	ug/L	<0.35	1.0	0.35	10/12/17 16:30	
2-Hexanone	ug/L	<0.46	5.0	0.46	10/12/17 16:30	
4-Chlorotoluene	ug/L	<0.31	1.0	0.31	10/12/17 16:30	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.33	5.0	0.33	10/12/17 16:30	
Acetone	ug/L	<10.0	25.0	10.0	10/12/17 16:30	
Benzene	ug/L	<0.25	1.0	0.25	10/12/17 16:30	
Bromobenzene	ug/L	<0.30	1.0	0.30	10/12/17 16:30	
Bromochloromethane	ug/L	<0.17	1.0	0.17	10/12/17 16:30	
Bromodichloromethane	ug/L	<0.18	1.0	0.18	10/12/17 16:30	
Bromoform	ug/L	<0.26	1.0	0.26	10/12/17 16:30	
Bromomethane	ug/L	<0.29	2.0	0.29	10/12/17 16:30	
Carbon tetrachloride	ug/L	<0.25	1.0	0.25	10/12/17 16:30	
Chlorobenzene	ug/L	<0.23	1.0	0.23	10/12/17 16:30	
Chloroethane	ug/L	<0.54	1.0	0.54	10/12/17 16:30	
Chloroform	ug/L	<0.14	1.0	0.14	10/12/17 16:30	
Chloromethane	ug/L	<0.11	1.0	0.11	10/12/17 16:30	
cis-1,2-Dichloroethene	ug/L	<0.19	1.0	0.19	10/12/17 16:30	
cis-1,3-Dichloropropene	ug/L	<0.13	1.0	0.13	10/12/17 16:30	
Dibromochloromethane	ug/L	<0.21	1.0	0.21	10/12/17 16:30	
Dibromomethane	ug/L	<0.21	1.0	0.21	10/12/17 16:30	
Dichlorodifluoromethane	ug/L	<0.21	1.0	0.21	10/12/17 16:30	

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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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

METHOD BLANK: 2117935 Matrix: Water
Associated Lab Samples: 92358909011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<0.12	1.0	0.12	10/12/17 16:30	
Ethylbenzene	ug/L	<0.30	1.0	0.30	10/12/17 16:30	
Hexachloro-1,3-butadiene	ug/L	<0.71	1.0	0.71	10/12/17 16:30	
m&p-Xylene	ug/L	<0.66	2.0	0.66	10/12/17 16:30	
Methyl-tert-butyl ether	ug/L	<0.21	1.0	0.21	10/12/17 16:30	
Methylene Chloride	ug/L	4.9	2.0	0.97	10/12/17 16:30	C9
Naphthalene	ug/L	<0.24	1.0	0.24	10/12/17 16:30	
o-Xylene	ug/L	<0.23	1.0	0.23	10/12/17 16:30	
p-Isopropyltoluene	ug/L	<0.31	1.0	0.31	10/12/17 16:30	
Styrene	ug/L	<0.26	1.0	0.26	10/12/17 16:30	
Tetrachloroethene	ug/L	<0.46	1.0	0.46	10/12/17 16:30	
Toluene	ug/L	<0.26	1.0	0.26	10/12/17 16:30	
trans-1,2-Dichloroethene	ug/L	<0.49	1.0	0.49	10/12/17 16:30	
trans-1,3-Dichloropropene	ug/L	<0.26	1.0	0.26	10/12/17 16:30	
Trichloroethene	ug/L	<0.47	1.0	0.47	10/12/17 16:30	
Trichlorofluoromethane	ug/L	<0.20	1.0	0.20	10/12/17 16:30	
Vinyl acetate	ug/L	<0.35	2.0	0.35	10/12/17 16:30	
Vinyl chloride	ug/L	<0.62	1.0	0.62	10/12/17 16:30	
Xylene (Total)	ug/L	<1.0	1.0	1.0	10/12/17 16:30	
1,2-Dichloroethane-d4 (S)	%	87	70-130		10/12/17 16:30	
4-Bromofluorobenzene (S)	%	95	70-130		10/12/17 16:30	
Toluene-d8 (S)	%	108	70-130		10/12/17 16:30	

LABORATORY CONTROL SAMPLE: 2117936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.3	95	70-130	
1,1,1-Trichloroethane	ug/L	50	48.4	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.5	93	70-130	
1,1,2-Trichloroethane	ug/L	50	47.0	94	70-130	
1,1-Dichloroethane	ug/L	50	46.2	92	70-130	
1,1-Dichloroethene	ug/L	50	43.6	87	70-132	
1,1-Dichloropropene	ug/L	50	48.6	97	70-130	
1,2,3-Trichlorobenzene	ug/L	50	51.9	104	70-135	
1,2,3-Trichloropropane	ug/L	50	46.9	94	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.9	100	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	98	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	70-130	
1,2-Dichlorobenzene	ug/L	50	44.4	89	70-130	
1,2-Dichloroethane	ug/L	50	44.3	89	70-130	
1,2-Dichloropropane	ug/L	50	49.5	99	70-130	
1,3-Dichlorobenzene	ug/L	50	43.7	87	70-130	
1,3-Dichloropropane	ug/L	50	52.0	104	70-130	
1,4-Dichlorobenzene	ug/L	50	42.0	84	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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

LABORATORY CONTROL SAMPLE: 2117936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	49.3	99	58-145	
2-Butanone (MEK)	ug/L	100	91.6	92	70-145	
2-Chlorotoluene	ug/L	50	43.0	86	70-130	
2-Hexanone	ug/L	100	93.3	93	70-144	
4-Chlorotoluene	ug/L	50	42.5	85	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	87.1	87	70-140	
Acetone	ug/L	100	94.6	95	50-175	
Benzene	ug/L	50	48.5	97	70-130	
Bromobenzene	ug/L	50	46.6	93	70-130	
Bromochloromethane	ug/L	50	44.4	89	70-130	
Bromodichloromethane	ug/L	50	46.9	94	70-130	
Bromoform	ug/L	50	44.6	89	70-130	
Bromomethane	ug/L	50	45.2	90	54-130	
Carbon tetrachloride	ug/L	50	46.9	94	70-132	
Chlorobenzene	ug/L	50	45.0	90	70-130	
Chloroethane	ug/L	50	41.1	82	64-134	
Chloroform	ug/L	50	45.0	90	70-130	
Chloromethane	ug/L	50	40.7	81	64-130	
cis-1,2-Dichloroethene	ug/L	50	47.7	95	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.5	97	70-130	
Dibromochloromethane	ug/L	50	48.4	97	70-130	
Dibromomethane	ug/L	50	46.0	92	70-131	
Dichlorodifluoromethane	ug/L	50	34.5	69	56-130	
Diisopropyl ether	ug/L	50	48.9	98	70-130	
Ethylbenzene	ug/L	50	44.6	89	70-130	
Hexachloro-1,3-butadiene	ug/L	50	49.8	100	70-130	
m&p-Xylene	ug/L	100	87.9	88	70-130	
Methyl-tert-butyl ether	ug/L	50	47.2	94	70-130	
Methylene Chloride	ug/L	50	54.3	109	63-130	
Naphthalene	ug/L	50	48.8	98	70-138	
o-Xylene	ug/L	50	43.9	88	70-130	
p-Isopropyltoluene	ug/L	50	45.5	91	70-130	
Styrene	ug/L	50	41.9	84	70-130	
Tetrachloroethene	ug/L	50	45.6	91	70-130	
Toluene	ug/L	50	45.3	91	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.4	91	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.3	93	70-132	
Trichloroethene	ug/L	50	51.1	102	70-130	
Trichlorofluoromethane	ug/L	50	40.8	82	62-133	
Vinyl acetate	ug/L	100	94.2	94	66-157	
Vinyl chloride	ug/L	50	42.8	86	50-150	
Xylene (Total)	ug/L	150	132	88	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			96	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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2118885 2118886

Parameter	Units	92358799001 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	19.0	18.3	95	91	70-130	4	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.2	22.0	111	110	70-130	1	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.0	18.7	95	93	70-130	2	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.2	19.1	96	95	70-130	1	30	
1,1-Dichloroethane	ug/L	ND	20	20	21.4	21.1	107	106	70-130	2	30	
1,1-Dichloroethene	ug/L	ND	20	20	20.3	20.7	101	104	70-166	2	30	
1,1-Dichloropropene	ug/L	ND	20	20	21.4	21.8	107	109	70-130	2	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.0	21.0	110	105	70-130	5	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	19.1	95	96	70-130	0	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.6	20.3	108	101	70-130	6	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.8	19.8	99	99	70-130	0	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.8	19.4	104	97	70-130	7	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.2	19.3	96	97	70-130	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	19.2	19.4	96	97	70-130	1	30	
1,2-Dichloropropane	ug/L	ND	20	20	20.5	20.7	103	104	70-130	1	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.5	18.6	92	93	70-130	1	30	
1,3-Dichloropropane	ug/L	ND	20	20	21.3	20.3	107	101	70-130	5	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.8	18.1	94	91	70-130	4	30	
2,2-Dichloropropane	ug/L	ND	20	20	22.4	21.2	112	106	70-130	5	30	
2-Butanone (MEK)	ug/L	ND	40	40	39.5	39.3	99	98	70-130	0	30	
2-Chlorotoluene	ug/L	ND	20	20	18.6	18.6	93	93	70-130	0	30	
2-Hexanone	ug/L	ND	40	40	38.9	38.0	97	95	70-130	2	30	
4-Chlorotoluene	ug/L	ND	20	20	18.6	18.6	93	93	70-130	0	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	36.2	36.5	91	91	70-130	1	30	
Acetone	ug/L	ND	40	40	44.9	45.4	112	114	70-130	1	30	
Benzene	ug/L	ND	20	20	21.2	21.0	106	105	70-148	1	30	
Bromobenzene	ug/L	ND	20	20	20.9	19.7	104	99	70-130	6	30	
Bromochloromethane	ug/L	ND	20	20	20.0	19.7	100	98	70-130	2	30	
Bromodichloromethane	ug/L	ND	20	20	20.2	19.8	101	99	70-130	2	30	
Bromoform	ug/L	ND	20	20	17.3	16.7	87	84	70-130	4	30	
Bromomethane	ug/L	ND	20	20	19.0	20.0	95	100	70-130	5	30	
Carbon tetrachloride	ug/L	ND	20	20	20.6	20.8	103	104	70-130	1	30	
Chlorobenzene	ug/L	ND	20	20	20.4	19.3	102	96	70-146	6	30	
Chloroethane	ug/L	ND	20	20	18.7	20.0	93	100	70-130	7	30	
Chloroform	ug/L	ND	20	20	20.0	20.0	100	100	70-130	0	30	
Chloromethane	ug/L	ND	20	20	17.9	17.7	89	88	70-130	1	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.7	109	108	70-130	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.0	18.4	95	92	70-130	3	30	
Dibromochloromethane	ug/L	ND	20	20	18.9	17.8	94	89	70-130	6	30	
Dibromomethane	ug/L	ND	20	20	19.8	18.9	99	95	70-130	5	30	
Dichlorodifluoromethane	ug/L	ND	20	20	15.4	15.9	77	80	70-130	4	30	
Diisopropyl ether	ug/L	ND	20	20	20.5	19.2	103	96	70-130	7	30	
Ethylbenzene	ug/L	ND	20	20	19.8	19.7	99	99	70-130	0	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.6	21.0	108	105	70-130	2	30	

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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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2118885 2118886

Parameter	Units	92358799001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
m&p-Xylene	ug/L	ND	40	40	39.7	37.7	99	94	70-130	5	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.4	18.5	92	93	70-130	1	30	
Methylene Chloride	ug/L	ND	20	20	20.8	21.5	104	107	70-130	3	30	
Naphthalene	ug/L	ND	20	20	22.2	20.5	109	101	70-130	8	30	
o-Xylene	ug/L	ND	20	20	20.2	19.0	101	95	70-130	6	30	
p-Isopropyltoluene	ug/L	ND	20	20	20.3	19.7	102	98	70-130	3	30	
Styrene	ug/L	ND	20	20	18.7	17.5	93	87	70-130	7	30	
Tetrachloroethene	ug/L	ND	20	20	19.5	19.4	98	97	70-130	1	30	
Toluene	ug/L	ND	20	20	20.2	20.2	101	101	70-155	0	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.1	21.5	106	108	70-130	2	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.5	18.2	87	91	70-130	4	30	
Trichloroethene	ug/L	ND	20	20	22.3	21.5	111	108	69-151	3	30	
Trichlorofluoromethane	ug/L	ND	20	20	18.0	19.8	90	99	70-130	9	30	
Vinyl acetate	ug/L	ND	40	40	35.7	34.2	89	86	70-130	4	30	
Vinyl chloride	ug/L	ND	20	20	20.0	20.5	100	103	70-130	2	30	
1,2-Dichloroethane-d4 (S)	%						96	97	70-130			
4-Bromofluorobenzene (S)	%						98	96	70-130			
Toluene-d8 (S)	%						98	100	70-130			

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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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

QC Batch: 382463 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92358909004, 92358909005, 92358909006, 92358909008, 92358909009

METHOD BLANK: 2119545 Matrix: Water
Associated Lab Samples: 92358909004, 92358909005, 92358909006, 92358909008, 92358909009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.33	1.0	0.33	10/15/17 17:26	
1,1,1-Trichloroethane	ug/L	<0.48	1.0	0.48	10/15/17 17:26	
1,1,2,2-Tetrachloroethane	ug/L	<0.40	1.0	0.40	10/15/17 17:26	
1,1,2-Trichloroethane	ug/L	<0.29	1.0	0.29	10/15/17 17:26	
1,1-Dichloroethane	ug/L	<0.32	1.0	0.32	10/15/17 17:26	
1,1-Dichloroethene	ug/L	<0.56	1.0	0.56	10/15/17 17:26	
1,1-Dichloropropene	ug/L	<0.49	1.0	0.49	10/15/17 17:26	
1,2,3-Trichlorobenzene	ug/L	<0.33	1.0	0.33	10/15/17 17:26	
1,2,3-Trichloropropane	ug/L	<0.41	1.0	0.41	10/15/17 17:26	
1,2,4-Trichlorobenzene	ug/L	<0.35	1.0	0.35	10/15/17 17:26	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	2.0	10/15/17 17:26	
1,2-Dibromoethane (EDB)	ug/L	<0.27	1.0	0.27	10/15/17 17:26	
1,2-Dichlorobenzene	ug/L	<0.30	1.0	0.30	10/15/17 17:26	
1,2-Dichloroethane	ug/L	<0.24	1.0	0.24	10/15/17 17:26	
1,2-Dichloropropane	ug/L	<0.27	1.0	0.27	10/15/17 17:26	
1,3-Dichlorobenzene	ug/L	<0.24	1.0	0.24	10/15/17 17:26	
1,3-Dichloropropane	ug/L	<0.28	1.0	0.28	10/15/17 17:26	
1,4-Dichlorobenzene	ug/L	<0.33	1.0	0.33	10/15/17 17:26	
2,2-Dichloropropane	ug/L	<0.13	1.0	0.13	10/15/17 17:26	
2-Butanone (MEK)	ug/L	<0.96	5.0	0.96	10/15/17 17:26	
2-Chlorotoluene	ug/L	<0.35	1.0	0.35	10/15/17 17:26	
2-Hexanone	ug/L	<0.46	5.0	0.46	10/15/17 17:26	
4-Chlorotoluene	ug/L	<0.31	1.0	0.31	10/15/17 17:26	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.33	5.0	0.33	10/15/17 17:26	
Acetone	ug/L	<10.0	25.0	10.0	10/15/17 17:26	
Benzene	ug/L	<0.25	1.0	0.25	10/15/17 17:26	
Bromobenzene	ug/L	<0.30	1.0	0.30	10/15/17 17:26	
Bromochloromethane	ug/L	<0.17	1.0	0.17	10/15/17 17:26	
Bromodichloromethane	ug/L	<0.18	1.0	0.18	10/15/17 17:26	
Bromoform	ug/L	<0.26	1.0	0.26	10/15/17 17:26	
Bromomethane	ug/L	<0.29	2.0	0.29	10/15/17 17:26	
Carbon tetrachloride	ug/L	<0.25	1.0	0.25	10/15/17 17:26	
Chlorobenzene	ug/L	<0.23	1.0	0.23	10/15/17 17:26	
Chloroethane	ug/L	<0.54	1.0	0.54	10/15/17 17:26	
Chloroform	ug/L	<0.14	1.0	0.14	10/15/17 17:26	
Chloromethane	ug/L	<0.11	1.0	0.11	10/15/17 17:26	
cis-1,2-Dichloroethene	ug/L	<0.19	1.0	0.19	10/15/17 17:26	
cis-1,3-Dichloropropene	ug/L	<0.13	1.0	0.13	10/15/17 17:26	
Dibromochloromethane	ug/L	<0.21	1.0	0.21	10/15/17 17:26	
Dibromomethane	ug/L	<0.21	1.0	0.21	10/15/17 17:26	
Dichlorodifluoromethane	ug/L	<0.21	1.0	0.21	10/15/17 17:26	

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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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

METHOD BLANK: 2119545 Matrix: Water
Associated Lab Samples: 92358909004, 92358909005, 92358909006, 92358909008, 92358909009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<0.12	1.0	0.12	10/15/17 17:26	
Ethylbenzene	ug/L	<0.30	1.0	0.30	10/15/17 17:26	
Hexachloro-1,3-butadiene	ug/L	<0.71	1.0	0.71	10/15/17 17:26	
m&p-Xylene	ug/L	<0.66	2.0	0.66	10/15/17 17:26	
Methyl-tert-butyl ether	ug/L	<0.21	1.0	0.21	10/15/17 17:26	
Methylene Chloride	ug/L	<0.97	2.0	0.97	10/15/17 17:26	
Naphthalene	ug/L	<0.24	1.0	0.24	10/15/17 17:26	
o-Xylene	ug/L	<0.23	1.0	0.23	10/15/17 17:26	
p-Isopropyltoluene	ug/L	<0.31	1.0	0.31	10/15/17 17:26	
Styrene	ug/L	<0.26	1.0	0.26	10/15/17 17:26	
Tetrachloroethene	ug/L	<0.46	1.0	0.46	10/15/17 17:26	
Toluene	ug/L	<0.26	1.0	0.26	10/15/17 17:26	
trans-1,2-Dichloroethene	ug/L	<0.49	1.0	0.49	10/15/17 17:26	
trans-1,3-Dichloropropene	ug/L	<0.26	1.0	0.26	10/15/17 17:26	
Trichloroethene	ug/L	<0.47	1.0	0.47	10/15/17 17:26	
Trichlorofluoromethane	ug/L	<0.20	1.0	0.20	10/15/17 17:26	
Vinyl acetate	ug/L	<0.35	2.0	0.35	10/15/17 17:26	
Vinyl chloride	ug/L	<0.62	1.0	0.62	10/15/17 17:26	
Xylene (Total)	ug/L	<1.0	1.0	1.0	10/15/17 17:26	
1,2-Dichloroethane-d4 (S)	%	98	70-130		10/15/17 17:26	
4-Bromofluorobenzene (S)	%	98	70-130		10/15/17 17:26	
Toluene-d8 (S)	%	101	70-130		10/15/17 17:26	

LABORATORY CONTROL SAMPLE: 2119546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.3	103	70-130	
1,1,1-Trichloroethane	ug/L	50	47.8	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.5	93	70-130	
1,1,2-Trichloroethane	ug/L	50	46.4	93	70-130	
1,1-Dichloroethane	ug/L	50	42.9	86	70-130	
1,1-Dichloroethene	ug/L	50	48.6	97	70-132	
1,1-Dichloropropene	ug/L	50	45.4	91	70-130	
1,2,3-Trichlorobenzene	ug/L	50	49.0	98	70-135	
1,2,3-Trichloropropane	ug/L	50	49.7	99	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.3	101	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	47.5	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	70-130	
1,2-Dichlorobenzene	ug/L	50	46.1	92	70-130	
1,2-Dichloroethane	ug/L	50	45.6	91	70-130	
1,2-Dichloropropane	ug/L	50	41.6	83	70-130	
1,3-Dichlorobenzene	ug/L	50	45.8	92	70-130	
1,3-Dichloropropane	ug/L	50	48.2	96	70-130	
1,4-Dichlorobenzene	ug/L	50	45.9	92	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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

LABORATORY CONTROL SAMPLE: 2119546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	48.5	97	58-145	
2-Butanone (MEK)	ug/L	100	85.5	86	70-145	
2-Chlorotoluene	ug/L	50	43.1	86	70-130	
2-Hexanone	ug/L	100	90.6	91	70-144	
4-Chlorotoluene	ug/L	50	44.6	89	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	86.1	86	70-140	
Acetone	ug/L	100	105	105	50-175	
Benzene	ug/L	50	43.5	87	70-130	
Bromobenzene	ug/L	50	45.9	92	70-130	
Bromochloromethane	ug/L	50	46.0	92	70-130	
Bromodichloromethane	ug/L	50	46.8	94	70-130	
Bromoform	ug/L	50	53.6	107	70-130	
Bromomethane	ug/L	50	51.6	103	54-130	
Carbon tetrachloride	ug/L	50	50.6	101	70-132	
Chlorobenzene	ug/L	50	47.1	94	70-130	
Chloroethane	ug/L	50	44.0	88	64-134	
Chloroform	ug/L	50	46.5	93	70-130	
Chloromethane	ug/L	50	43.9	88	64-130	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.0	98	70-130	
Dibromochloromethane	ug/L	50	52.6	105	70-130	
Dibromomethane	ug/L	50	50.6	101	70-131	
Dichlorodifluoromethane	ug/L	50	45.1	90	56-130	
Diisopropyl ether	ug/L	50	43.0	86	70-130	
Ethylbenzene	ug/L	50	48.0	96	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.7	103	70-130	
m&p-Xylene	ug/L	100	97.7	98	70-130	
Methyl-tert-butyl ether	ug/L	50	45.1	90	70-130	
Methylene Chloride	ug/L	50	44.2	88	63-130	
Naphthalene	ug/L	50	49.6	99	70-138	
o-Xylene	ug/L	50	49.6	99	70-130	
p-Isopropyltoluene	ug/L	50	47.6	95	70-130	
Styrene	ug/L	50	50.0	100	70-130	
Tetrachloroethene	ug/L	50	49.4	99	70-130	
Toluene	ug/L	50	45.3	91	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.3	91	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.7	95	70-132	
Trichloroethene	ug/L	50	49.6	99	70-130	
Trichlorofluoromethane	ug/L	50	51.2	102	62-133	
Vinyl acetate	ug/L	100	92.3	92	66-157	
Vinyl chloride	ug/L	50	51.6	103	50-150	
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

MATRIX SPIKE SAMPLE: 2119547

Parameter	Units	92359168001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	22.7	114	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	22.4	112	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.5	102	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.1	106	70-130	
1,1-Dichloroethane	ug/L	ND	20	19.5	97	70-130	
1,1-Dichloroethene	ug/L	ND	20	22.4	112	70-166	
1,1-Dichloropropene	ug/L	ND	20	20.3	102	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	21.3	106	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.9	110	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	20.8	104	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20.4	102	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.7	108	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	20.9	104	70-130	
1,2-Dichloroethane	ug/L	ND	20	20.7	104	70-130	
1,2-Dichloropropane	ug/L	ND	20	18.9	94	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	20.8	104	70-130	
1,3-Dichloropropane	ug/L	ND	20	21.7	109	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	20.4	102	70-130	
2,2-Dichloropropane	ug/L	ND	20	18.4	92	70-130	
2-Butanone (MEK)	ug/L	ND	40	40.5	101	70-130	
2-Chlorotoluene	ug/L	ND	20	19.9	100	70-130	
2-Hexanone	ug/L	ND	40	41.6	104	70-130	
4-Chlorotoluene	ug/L	ND	20	20.1	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	44.2	110	70-130	
Acetone	ug/L	ND	40	48.2	121	70-130	
Benzene	ug/L	ND	20	20.5	103	70-148	
Bromobenzene	ug/L	ND	20	21.7	109	70-130	
Bromochloromethane	ug/L	ND	20	20.4	102	70-130	
Bromodichloromethane	ug/L	ND	20	21.1	105	70-130	
Bromoform	ug/L	ND	20	16.9	84	70-130	
Bromomethane	ug/L	ND	20	19.4	97	70-130	
Carbon tetrachloride	ug/L	ND	20	24.6	123	70-130	
Chlorobenzene	ug/L	ND	20	20.9	105	70-146	
Chloroethane	ug/L	ND	20	22.1	110	70-130	
Chloroform	ug/L	ND	20	20.8	104	70-130	
Chloromethane	ug/L	ND	20	18.8	92	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	20.9	105	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.9	99	70-130	
Dibromochloromethane	ug/L	ND	20	20.6	103	70-130	
Dibromomethane	ug/L	ND	20	23.5	117	70-130	
Dichlorodifluoromethane	ug/L	ND	20	20.2	101	70-130	
Diisopropyl ether	ug/L	ND	20	18.7	94	70-130	
Ethylbenzene	ug/L	ND	20	21.1	106	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	22.8	114	70-130	
m&p-Xylene	ug/L	ND	40	42.9	107	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.7	98	70-130	
Methylene Chloride	ug/L	ND	20	18.3	92	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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

MATRIX SPIKE SAMPLE: 2119547

Parameter	Units	92359168001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	21.9	110	70-130	
o-Xylene	ug/L	ND	20	21.1	106	70-130	
p-Isopropyltoluene	ug/L	ND	20	21.0	105	70-130	
Styrene	ug/L	ND	20	21.7	109	70-130	
Tetrachloroethene	ug/L	ND	20	22.6	113	70-130	
Toluene	ug/L	ND	20	20.9	105	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	20.9	104	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	20.7	103	70-130	
Trichloroethene	ug/L	ND	20	22.6	113	69-151	
Trichlorofluoromethane	ug/L	ND	20	24.1	121	70-130	
Vinyl acetate	ug/L	ND	40	34.4	86	70-130	
Vinyl chloride	ug/L	ND	20	22.2	111	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2119548

Parameter	Units	92358737002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	<0.33		30	
1,1,1-Trichloroethane	ug/L	ND	<0.48		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	<0.40		30	
1,1,2-Trichloroethane	ug/L	ND	<0.29		30	
1,1-Dichloroethane	ug/L	ND	<0.32		30	
1,1-Dichloroethene	ug/L	ND	<0.56		30	
1,1-Dichloropropene	ug/L	ND	<0.49		30	
1,2,3-Trichlorobenzene	ug/L	ND	<0.33		30	
1,2,3-Trichloropropane	ug/L	ND	<0.41		30	
1,2,4-Trichlorobenzene	ug/L	ND	<0.35		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	<2.0		30	
1,2-Dibromoethane (EDB)	ug/L	ND	<0.27		30	
1,2-Dichlorobenzene	ug/L	ND	<0.30		30	
1,2-Dichloroethane	ug/L	ND	<0.24		30	
1,2-Dichloropropane	ug/L	ND	<0.27		30	
1,3-Dichlorobenzene	ug/L	ND	<0.24		30	
1,3-Dichloropropane	ug/L	ND	<0.28		30	
1,4-Dichlorobenzene	ug/L	ND	<0.33		30	
2,2-Dichloropropane	ug/L	ND	<0.13		30	
2-Butanone (MEK)	ug/L	ND	<0.96		30	
2-Chlorotoluene	ug/L	ND	<0.35		30	
2-Hexanone	ug/L	ND	<0.46		30	
4-Chlorotoluene	ug/L	ND	<0.31		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	<0.33		30	
Acetone	ug/L	ND	<10.0		30	
Benzene	ug/L	ND	<0.25		30	

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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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

SAMPLE DUPLICATE: 2119548

Parameter	Units	92358737002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	<0.30		30	
Bromochloromethane	ug/L	ND	<0.17		30	
Bromodichloromethane	ug/L	ND	<0.18		30	
Bromoform	ug/L	ND	<0.26		30	
Bromomethane	ug/L	ND	<0.29		30	
Carbon tetrachloride	ug/L	ND	<0.25		30	
Chlorobenzene	ug/L	ND	<0.23		30	
Chloroethane	ug/L	ND	<0.54		30	
Chloroform	ug/L	ND	<0.14		30	
Chloromethane	ug/L	ND	<0.11		30	
cis-1,2-Dichloroethene	ug/L	ND	0.85J		30	
cis-1,3-Dichloropropene	ug/L	ND	<0.13		30	
Dibromochloromethane	ug/L	ND	<0.21		30	
Dibromomethane	ug/L	ND	<0.21		30	
Dichlorodifluoromethane	ug/L	ND	<0.21		30	
Diisopropyl ether	ug/L	ND	<0.12		30	
Ethylbenzene	ug/L	ND	<0.30		30	
Hexachloro-1,3-butadiene	ug/L	ND	<0.71		30	
m&p-Xylene	ug/L	ND	<0.66		30	
Methyl-tert-butyl ether	ug/L	ND	<0.21		30	
Methylene Chloride	ug/L	ND	<0.97		30	
Naphthalene	ug/L	ND	<0.24		30	
o-Xylene	ug/L	ND	<0.23		30	
p-Isopropyltoluene	ug/L	ND	<0.31		30	
Styrene	ug/L	ND	<0.26		30	
Tetrachloroethene	ug/L	ND	<0.46		30	
Toluene	ug/L	ND	<0.26		30	
trans-1,2-Dichloroethene	ug/L	ND	<0.49		30	
trans-1,3-Dichloropropene	ug/L	ND	<0.26		30	
Trichloroethene	ug/L	ND	<0.47		30	
Trichlorofluoromethane	ug/L	ND	<0.20		30	
Vinyl acetate	ug/L	ND	<0.35		30	
Vinyl chloride	ug/L	ND	<0.62		30	
Xylene (Total)	ug/L	ND	<1.0		30	
1,2-Dichloroethane-d4 (S)	%	106	107	1		
4-Bromofluorobenzene (S)	%	99	98	1		
Toluene-d8 (S)	%	102	102	0		

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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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

QC Batch: 382772 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92358909001, 92358909002, 92358909003, 92358909007

METHOD BLANK: 2121147 Matrix: Water
Associated Lab Samples: 92358909001, 92358909002, 92358909003, 92358909007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.33	1.0	0.33	10/17/17 14:29	
1,1,1-Trichloroethane	ug/L	<0.48	1.0	0.48	10/17/17 14:29	
1,1,2,2-Tetrachloroethane	ug/L	<0.40	1.0	0.40	10/17/17 14:29	
1,1,2-Trichloroethane	ug/L	<0.29	1.0	0.29	10/17/17 14:29	
1,1-Dichloroethane	ug/L	<0.32	1.0	0.32	10/17/17 14:29	
1,1-Dichloroethene	ug/L	<0.56	1.0	0.56	10/17/17 14:29	
1,1-Dichloropropene	ug/L	<0.49	1.0	0.49	10/17/17 14:29	
1,2,3-Trichlorobenzene	ug/L	<0.33	1.0	0.33	10/17/17 14:29	
1,2,3-Trichloropropane	ug/L	<0.41	1.0	0.41	10/17/17 14:29	
1,2,4-Trichlorobenzene	ug/L	<0.35	1.0	0.35	10/17/17 14:29	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	2.0	10/17/17 14:29	
1,2-Dibromoethane (EDB)	ug/L	<0.27	1.0	0.27	10/17/17 14:29	
1,2-Dichlorobenzene	ug/L	<0.30	1.0	0.30	10/17/17 14:29	
1,2-Dichloroethane	ug/L	<0.24	1.0	0.24	10/17/17 14:29	
1,2-Dichloropropane	ug/L	<0.27	1.0	0.27	10/17/17 14:29	
1,3-Dichlorobenzene	ug/L	<0.24	1.0	0.24	10/17/17 14:29	
1,3-Dichloropropane	ug/L	<0.28	1.0	0.28	10/17/17 14:29	
1,4-Dichlorobenzene	ug/L	<0.33	1.0	0.33	10/17/17 14:29	
2,2-Dichloropropane	ug/L	<0.13	1.0	0.13	10/17/17 14:29	
2-Butanone (MEK)	ug/L	<0.96	5.0	0.96	10/17/17 14:29	
2-Chlorotoluene	ug/L	<0.35	1.0	0.35	10/17/17 14:29	
2-Hexanone	ug/L	<0.46	5.0	0.46	10/17/17 14:29	
4-Chlorotoluene	ug/L	<0.31	1.0	0.31	10/17/17 14:29	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.33	5.0	0.33	10/17/17 14:29	
Acetone	ug/L	<10.0	25.0	10.0	10/17/17 14:29	
Benzene	ug/L	<0.25	1.0	0.25	10/17/17 14:29	
Bromobenzene	ug/L	<0.30	1.0	0.30	10/17/17 14:29	
Bromochloromethane	ug/L	<0.17	1.0	0.17	10/17/17 14:29	
Bromodichloromethane	ug/L	<0.18	1.0	0.18	10/17/17 14:29	
Bromoform	ug/L	<0.26	1.0	0.26	10/17/17 14:29	
Bromomethane	ug/L	<0.29	2.0	0.29	10/17/17 14:29	
Carbon tetrachloride	ug/L	<0.25	1.0	0.25	10/17/17 14:29	
Chlorobenzene	ug/L	<0.23	1.0	0.23	10/17/17 14:29	
Chloroethane	ug/L	<0.54	1.0	0.54	10/17/17 14:29	
Chloroform	ug/L	<0.14	1.0	0.14	10/17/17 14:29	
Chloromethane	ug/L	<0.11	1.0	0.11	10/17/17 14:29	
cis-1,2-Dichloroethene	ug/L	<0.19	1.0	0.19	10/17/17 14:29	
cis-1,3-Dichloropropene	ug/L	<0.13	1.0	0.13	10/17/17 14:29	
Dibromochloromethane	ug/L	<0.21	1.0	0.21	10/17/17 14:29	
Dibromomethane	ug/L	<0.21	1.0	0.21	10/17/17 14:29	
Dichlorodifluoromethane	ug/L	<0.21	1.0	0.21	10/17/17 14:29	

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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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

METHOD BLANK: 2121147 Matrix: Water
Associated Lab Samples: 92358909001, 92358909002, 92358909003, 92358909007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<0.12	1.0	0.12	10/17/17 14:29	
Ethylbenzene	ug/L	<0.30	1.0	0.30	10/17/17 14:29	
Hexachloro-1,3-butadiene	ug/L	<0.71	1.0	0.71	10/17/17 14:29	
m&p-Xylene	ug/L	<0.66	2.0	0.66	10/17/17 14:29	
Methyl-tert-butyl ether	ug/L	<0.21	1.0	0.21	10/17/17 14:29	
Methylene Chloride	ug/L	<0.97	2.0	0.97	10/17/17 14:29	
Naphthalene	ug/L	<0.24	1.0	0.24	10/17/17 14:29	
o-Xylene	ug/L	<0.23	1.0	0.23	10/17/17 14:29	
p-Isopropyltoluene	ug/L	<0.31	1.0	0.31	10/17/17 14:29	
Styrene	ug/L	<0.26	1.0	0.26	10/17/17 14:29	
Tetrachloroethene	ug/L	<0.46	1.0	0.46	10/17/17 14:29	
Toluene	ug/L	<0.26	1.0	0.26	10/17/17 14:29	
trans-1,2-Dichloroethene	ug/L	<0.49	1.0	0.49	10/17/17 14:29	
trans-1,3-Dichloropropene	ug/L	<0.26	1.0	0.26	10/17/17 14:29	
Trichloroethene	ug/L	<0.47	1.0	0.47	10/17/17 14:29	
Trichlorofluoromethane	ug/L	<0.20	1.0	0.20	10/17/17 14:29	
Vinyl acetate	ug/L	<0.35	2.0	0.35	10/17/17 14:29	
Vinyl chloride	ug/L	<0.62	1.0	0.62	10/17/17 14:29	
Xylene (Total)	ug/L	<1.0	1.0	1.0	10/17/17 14:29	
1,2-Dichloroethane-d4 (S)	%	85	70-130		10/17/17 14:29	
4-Bromofluorobenzene (S)	%	95	70-130		10/17/17 14:29	
Toluene-d8 (S)	%	106	70-130		10/17/17 14:29	

LABORATORY CONTROL SAMPLE: 2121148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	44.5	89	70-130	
1,1,1-Trichloroethane	ug/L	50	46.2	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.5	95	70-130	
1,1,2-Trichloroethane	ug/L	50	48.5	97	70-130	
1,1-Dichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethene	ug/L	50	43.3	87	70-132	
1,1-Dichloropropene	ug/L	50	48.8	98	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.8	94	70-135	
1,2,3-Trichloropropane	ug/L	50	47.7	95	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.4	91	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.7	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	70-130	
1,2-Dichlorobenzene	ug/L	50	40.9	82	70-130	
1,2-Dichloroethane	ug/L	50	42.0	84	70-130	
1,2-Dichloropropane	ug/L	50	49.3	99	70-130	
1,3-Dichlorobenzene	ug/L	50	40.4	81	70-130	
1,3-Dichloropropane	ug/L	50	50.4	101	70-130	
1,4-Dichlorobenzene	ug/L	50	40.0	80	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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

LABORATORY CONTROL SAMPLE: 2121148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	47.7	95	58-145	
2-Butanone (MEK)	ug/L	100	104	104	70-145	
2-Chlorotoluene	ug/L	50	40.0	80	70-130	
2-Hexanone	ug/L	100	99.1	99	70-144	
4-Chlorotoluene	ug/L	50	39.9	80	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.2	96	70-140	
Acetone	ug/L	100	95.2	95	50-175	
Benzene	ug/L	50	48.9	98	70-130	
Bromobenzene	ug/L	50	45.0	90	70-130	
Bromochloromethane	ug/L	50	45.7	91	70-130	
Bromodichloromethane	ug/L	50	45.7	91	70-130	
Bromoform	ug/L	50	45.0	90	70-130	
Bromomethane	ug/L	50	40.1	80	54-130	
Carbon tetrachloride	ug/L	50	42.7	85	70-132	
Chlorobenzene	ug/L	50	43.7	87	70-130	
Chloroethane	ug/L	50	42.8	86	64-134	
Chloroform	ug/L	50	44.8	90	70-130	
Chloromethane	ug/L	50	34.6	69	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.0	96	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.3	99	70-130	
Dibromochloromethane	ug/L	50	46.6	93	70-130	
Dibromomethane	ug/L	50	46.7	93	70-131	
Dichlorodifluoromethane	ug/L	50	28.8	58	56-130	
Diisopropyl ether	ug/L	50	49.8	100	70-130	
Ethylbenzene	ug/L	50	42.6	85	70-130	
Hexachloro-1,3-butadiene	ug/L	50	42.8	86	70-130	
m&p-Xylene	ug/L	100	84.3	84	70-130	
Methyl-tert-butyl ether	ug/L	50	49.2	98	70-130	
Methylene Chloride	ug/L	50	50.1	100	63-130	
Naphthalene	ug/L	50	48.3	97	70-138	
o-Xylene	ug/L	50	43.2	86	70-130	
p-Isopropyltoluene	ug/L	50	42.1	84	70-130	
Styrene	ug/L	50	40.7	81	70-130	
Tetrachloroethene	ug/L	50	42.7	85	70-130	
Toluene	ug/L	50	45.2	90	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.3	91	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.0	94	70-132	
Trichloroethene	ug/L	50	49.0	98	70-130	
Trichlorofluoromethane	ug/L	50	37.9	76	62-133	
Vinyl acetate	ug/L	100	98.7	99	66-157	
Vinyl chloride	ug/L	50	43.5	87	50-150	
Xylene (Total)	ug/L	150	127	85	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

MATRIX SPIKE SAMPLE: 2121859

Parameter	Units	92358909001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.33	20	19.3	96	70-130	
1,1,1-Trichloroethane	ug/L	<0.48	20	22.0	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	<0.40	20	17.3	87	70-130	
1,1,2-Trichloroethane	ug/L	<0.29	20	21.0	105	70-130	
1,1-Dichloroethane	ug/L	1.1	20	21.4	102	70-130	
1,1-Dichloroethene	ug/L	1.0	20	24.6	118	70-166	
1,1-Dichloropropene	ug/L	<0.49	20	22.4	112	70-130	
1,2,3-Trichlorobenzene	ug/L	<0.33	20	19.3	97	70-130	
1,2,3-Trichloropropane	ug/L	<0.41	20	18.1	91	70-130	
1,2,4-Trichlorobenzene	ug/L	<0.35	20	19.7	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	20	16.3	81	70-130	
1,2-Dibromoethane (EDB)	ug/L	<0.27	20	19.2	96	70-130	
1,2-Dichlorobenzene	ug/L	<0.30	20	18.3	91	70-130	
1,2-Dichloroethane	ug/L	<0.24	20	19.6	98	70-130	
1,2-Dichloropropane	ug/L	<0.27	20	21.5	107	70-130	
1,3-Dichlorobenzene	ug/L	<0.24	20	19.0	95	70-130	
1,3-Dichloropropane	ug/L	<0.28	20	19.5	98	70-130	
1,4-Dichlorobenzene	ug/L	<0.33	20	18.7	93	70-130	
2,2-Dichloropropane	ug/L	<0.13	20	21.6	108	70-130	
2-Butanone (MEK)	ug/L	<0.96	40	33.7	84	70-130	
2-Chlorotoluene	ug/L	<0.35	20	19.0	95	70-130	
2-Hexanone	ug/L	<0.46	40	32.0	80	70-130	
4-Chlorotoluene	ug/L	<0.31	20	19.0	95	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.33	40	37.8	94	70-130	
Acetone	ug/L	<10.0	40	35.9	90	70-130	
Benzene	ug/L	1.7	20	23.3	108	70-148	
Bromobenzene	ug/L	<0.30	20	18.8	94	70-130	
Bromochloromethane	ug/L	<0.17	20	21.3	106	70-130	
Bromodichloromethane	ug/L	<0.18	20	21.2	106	70-130	
Bromoform	ug/L	<0.26	20	17.1	86	70-130	
Bromomethane	ug/L	<0.29	20	27.4	137	70-130	M1
Carbon tetrachloride	ug/L	<0.25	20	23.2	116	70-130	
Chlorobenzene	ug/L	<0.23	20	19.5	98	70-146	
Chloroethane	ug/L	<0.54	20	21.8	109	70-130	
Chloroform	ug/L	19.1	20	38.8	99	70-130	
Chloromethane	ug/L	<0.11	20	18.3	92	70-130	
cis-1,2-Dichloroethene	ug/L	2.2	20	24.1	109	70-130	
cis-1,3-Dichloropropene	ug/L	<0.13	20	21.0	105	70-130	
Dibromochloromethane	ug/L	<0.21	20	18.6	93	70-130	
Dibromomethane	ug/L	<0.21	20	21.1	106	70-130	
Dichlorodifluoromethane	ug/L	<0.21	20	15.1	76	70-130	
Diisopropyl ether	ug/L	<0.12	20	21.9	110	70-130	
Ethylbenzene	ug/L	<0.30	20	19.8	99	70-130	
Hexachloro-1,3-butadiene	ug/L	<0.71	20	22.0	110	70-130	
m&p-Xylene	ug/L	<0.66	40	40.4	101	70-130	
Methyl-tert-butyl ether	ug/L	<0.21	20	20.0	100	70-130	
Methylene Chloride	ug/L	1.5J	20	17.6	81	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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

MATRIX SPIKE SAMPLE: 2121859

Parameter	Units	92358909001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	<0.24	20	17.7	89	70-130	
o-Xylene	ug/L	0.26J	20	19.9	98	70-130	
p-Isopropyltoluene	ug/L	<0.31	20	20.1	100	70-130	
Styrene	ug/L	<0.26	20	19.1	96	70-130	
Tetrachloroethene	ug/L	1.7	20	22.6	105	70-130	
Toluene	ug/L	<0.26	20	21.6	108	70-155	
trans-1,2-Dichloroethene	ug/L	<0.49	20	22.7	114	70-130	
trans-1,3-Dichloropropene	ug/L	<0.26	20	20.2	101	70-130	
Trichloroethene	ug/L	1.8	20	24.4	113	69-151	
Trichlorofluoromethane	ug/L	<0.20	20	19.6	98	70-130	
Vinyl acetate	ug/L	<0.35	40	41.6	104	70-130	
Vinyl chloride	ug/L	<0.62	20	21.4	107	70-130	
1,2-Dichloroethane-d4 (S)	%				91	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2121860

Parameter	Units	92358909002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.33	<0.33		30	
1,1,1-Trichloroethane	ug/L	<0.48	<0.48		30	
1,1,2,2-Tetrachloroethane	ug/L	<0.40	<0.40		30	
1,1,2-Trichloroethane	ug/L	<0.29	<0.29		30	
1,1-Dichloroethane	ug/L	<0.32	<0.32		30	
1,1-Dichloroethene	ug/L	<0.56	<0.56		30	
1,1-Dichloropropene	ug/L	<0.49	<0.49		30	
1,2,3-Trichlorobenzene	ug/L	<0.33	<0.33		30	
1,2,3-Trichloropropane	ug/L	<0.41	<0.41		30	
1,2,4-Trichlorobenzene	ug/L	<0.35	<0.35		30	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0		30	
1,2-Dibromoethane (EDB)	ug/L	<0.27	<0.27		30	
1,2-Dichlorobenzene	ug/L	<0.30	<0.30		30	
1,2-Dichloroethane	ug/L	<0.24	<0.24		30	
1,2-Dichloropropane	ug/L	<0.27	<0.27		30	
1,3-Dichlorobenzene	ug/L	<0.24	<0.24		30	
1,3-Dichloropropane	ug/L	<0.28	<0.28		30	
1,4-Dichlorobenzene	ug/L	<0.33	<0.33		30	
2,2-Dichloropropane	ug/L	<0.13	<0.13		30	
2-Butanone (MEK)	ug/L	<0.96	<0.96		30	
2-Chlorotoluene	ug/L	<0.35	<0.35		30	
2-Hexanone	ug/L	<0.46	<0.46		30	
4-Chlorotoluene	ug/L	<0.31	<0.31		30	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.33	<0.33		30	
Acetone	ug/L	<10.0	<10.0		30	
Benzene	ug/L	<0.25	<0.25		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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

SAMPLE DUPLICATE: 2121860

Parameter	Units	92358909002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	<0.30	<0.30		30	
Bromochloromethane	ug/L	<0.17	<0.17		30	
Bromodichloromethane	ug/L	<0.18	<0.18		30	
Bromoform	ug/L	<0.26	<0.26		30	
Bromomethane	ug/L	<0.29	<0.29		30	
Carbon tetrachloride	ug/L	<0.25	<0.25		30	
Chlorobenzene	ug/L	<0.23	<0.23		30	
Chloroethane	ug/L	<0.54	<0.54		30	
Chloroform	ug/L	<0.14	<0.14		30	
Chloromethane	ug/L	<0.11	<0.11		30	
cis-1,2-Dichloroethene	ug/L	<0.19	<0.19		30	
cis-1,3-Dichloropropene	ug/L	<0.13	<0.13		30	
Dibromochloromethane	ug/L	<0.21	<0.21		30	
Dibromomethane	ug/L	<0.21	<0.21		30	
Dichlorodifluoromethane	ug/L	<0.21	<0.21		30	
Diisopropyl ether	ug/L	<0.12	<0.12		30	
Ethylbenzene	ug/L	<0.30	<0.30		30	
Hexachloro-1,3-butadiene	ug/L	<0.71	<0.71		30	
m&p-Xylene	ug/L	<0.66	<0.66		30	
Methyl-tert-butyl ether	ug/L	<0.21	<0.21		30	
Methylene Chloride	ug/L	<0.97	<0.97		30	
Naphthalene	ug/L	<0.24	<0.24		30	
o-Xylene	ug/L	<0.23	<0.23		30	
p-Isopropyltoluene	ug/L	<0.31	<0.31		30	
Styrene	ug/L	<0.26	<0.26		30	
Tetrachloroethene	ug/L	1.2	1.3	9	30	
Toluene	ug/L	<0.26	<0.26		30	
trans-1,2-Dichloroethene	ug/L	<0.49	<0.49		30	
trans-1,3-Dichloropropene	ug/L	<0.26	<0.26		30	
Trichloroethene	ug/L	15.3	17.2	12	30	
Trichlorofluoromethane	ug/L	<0.20	<0.20		30	
Vinyl acetate	ug/L	<0.35	<0.35		30	
Vinyl chloride	ug/L	<0.62	<0.62		30	
Xylene (Total)	ug/L	<1.0	<1.0		30	
1,2-Dichloroethane-d4 (S)	%	88	98	10		
4-Bromofluorobenzene (S)	%	93	105	11		
Toluene-d8 (S)	%	108	99	9		

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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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

QC Batch: 382809 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92358909010

METHOD BLANK: 2121472 Matrix: Water
Associated Lab Samples: 92358909010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.33	1.0	0.33	10/18/17 03:08	
1,1,1-Trichloroethane	ug/L	<0.48	1.0	0.48	10/18/17 03:08	
1,1,2,2-Tetrachloroethane	ug/L	<0.40	1.0	0.40	10/18/17 03:08	
1,1,2-Trichloroethane	ug/L	<0.29	1.0	0.29	10/18/17 03:08	
1,1-Dichloroethane	ug/L	<0.32	1.0	0.32	10/18/17 03:08	
1,1-Dichloroethene	ug/L	<0.56	1.0	0.56	10/18/17 03:08	
1,1-Dichloropropene	ug/L	<0.49	1.0	0.49	10/18/17 03:08	
1,2,3-Trichlorobenzene	ug/L	<0.33	1.0	0.33	10/18/17 03:08	
1,2,3-Trichloropropane	ug/L	<0.41	1.0	0.41	10/18/17 03:08	
1,2,4-Trichlorobenzene	ug/L	<0.35	1.0	0.35	10/18/17 03:08	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	2.0	10/18/17 03:08	
1,2-Dibromoethane (EDB)	ug/L	<0.27	1.0	0.27	10/18/17 03:08	
1,2-Dichlorobenzene	ug/L	<0.30	1.0	0.30	10/18/17 03:08	
1,2-Dichloroethane	ug/L	<0.24	1.0	0.24	10/18/17 03:08	
1,2-Dichloropropane	ug/L	<0.27	1.0	0.27	10/18/17 03:08	
1,3-Dichlorobenzene	ug/L	<0.24	1.0	0.24	10/18/17 03:08	
1,3-Dichloropropane	ug/L	<0.28	1.0	0.28	10/18/17 03:08	
1,4-Dichlorobenzene	ug/L	<0.33	1.0	0.33	10/18/17 03:08	
2,2-Dichloropropane	ug/L	<0.13	1.0	0.13	10/18/17 03:08	
2-Butanone (MEK)	ug/L	<0.96	5.0	0.96	10/18/17 03:08	
2-Chlorotoluene	ug/L	<0.35	1.0	0.35	10/18/17 03:08	
2-Hexanone	ug/L	<0.46	5.0	0.46	10/18/17 03:08	
4-Chlorotoluene	ug/L	<0.31	1.0	0.31	10/18/17 03:08	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.33	5.0	0.33	10/18/17 03:08	
Acetone	ug/L	<10.0	25.0	10.0	10/18/17 03:08	
Benzene	ug/L	<0.25	1.0	0.25	10/18/17 03:08	
Bromobenzene	ug/L	<0.30	1.0	0.30	10/18/17 03:08	
Bromochloromethane	ug/L	<0.17	1.0	0.17	10/18/17 03:08	
Bromodichloromethane	ug/L	<0.18	1.0	0.18	10/18/17 03:08	
Bromoform	ug/L	<0.26	1.0	0.26	10/18/17 03:08	
Bromomethane	ug/L	<0.29	2.0	0.29	10/18/17 03:08	
Carbon tetrachloride	ug/L	<0.25	1.0	0.25	10/18/17 03:08	
Chlorobenzene	ug/L	<0.23	1.0	0.23	10/18/17 03:08	
Chloroethane	ug/L	<0.54	1.0	0.54	10/18/17 03:08	
Chloroform	ug/L	0.29J	1.0	0.14	10/18/17 03:08	
Chloromethane	ug/L	<0.11	1.0	0.11	10/18/17 03:08	
cis-1,2-Dichloroethene	ug/L	<0.19	1.0	0.19	10/18/17 03:08	
cis-1,3-Dichloropropene	ug/L	<0.13	1.0	0.13	10/18/17 03:08	
Dibromochloromethane	ug/L	<0.21	1.0	0.21	10/18/17 03:08	
Dibromomethane	ug/L	<0.21	1.0	0.21	10/18/17 03:08	
Dichlorodifluoromethane	ug/L	<0.21	1.0	0.21	10/18/17 03:08	

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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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

METHOD BLANK: 2121472 Matrix: Water
Associated Lab Samples: 92358909010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<0.12	1.0	0.12	10/18/17 03:08	
Ethylbenzene	ug/L	<0.30	1.0	0.30	10/18/17 03:08	
Hexachloro-1,3-butadiene	ug/L	<0.71	1.0	0.71	10/18/17 03:08	
m&p-Xylene	ug/L	<0.66	2.0	0.66	10/18/17 03:08	
Methyl-tert-butyl ether	ug/L	<0.21	1.0	0.21	10/18/17 03:08	
Methylene Chloride	ug/L	<0.97	2.0	0.97	10/18/17 03:08	
Naphthalene	ug/L	<0.24	1.0	0.24	10/18/17 03:08	
o-Xylene	ug/L	<0.23	1.0	0.23	10/18/17 03:08	
p-Isopropyltoluene	ug/L	<0.31	1.0	0.31	10/18/17 03:08	
Styrene	ug/L	<0.26	1.0	0.26	10/18/17 03:08	
Tetrachloroethene	ug/L	<0.46	1.0	0.46	10/18/17 03:08	
Toluene	ug/L	<0.26	1.0	0.26	10/18/17 03:08	
trans-1,2-Dichloroethene	ug/L	<0.49	1.0	0.49	10/18/17 03:08	
trans-1,3-Dichloropropene	ug/L	<0.26	1.0	0.26	10/18/17 03:08	
Trichloroethene	ug/L	<0.47	1.0	0.47	10/18/17 03:08	
Trichlorofluoromethane	ug/L	<0.20	1.0	0.20	10/18/17 03:08	
Vinyl acetate	ug/L	<0.35	2.0	0.35	10/18/17 03:08	
Vinyl chloride	ug/L	<0.62	1.0	0.62	10/18/17 03:08	
Xylene (Total)	ug/L	<1.0	1.0	1.0	10/18/17 03:08	
1,2-Dichloroethane-d4 (S)	%	96	70-130		10/18/17 03:08	
4-Bromofluorobenzene (S)	%	95	70-130		10/18/17 03:08	
Toluene-d8 (S)	%	108	70-130		10/18/17 03:08	

LABORATORY CONTROL SAMPLE: 2121473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	43.6	87	70-130	
1,1,1-Trichloroethane	ug/L	50	51.7	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.6	91	70-130	
1,1,2-Trichloroethane	ug/L	50	45.4	91	70-130	
1,1-Dichloroethane	ug/L	50	49.6	99	70-130	
1,1-Dichloroethene	ug/L	50	47.7	95	70-132	
1,1-Dichloropropene	ug/L	50	51.8	104	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.9	94	70-135	
1,2,3-Trichloropropane	ug/L	50	46.3	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.4	91	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	47.9	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.6	97	70-130	
1,2-Dichlorobenzene	ug/L	50	42.2	84	70-130	
1,2-Dichloroethane	ug/L	50	46.4	93	70-130	
1,2-Dichloropropane	ug/L	50	49.4	99	70-130	
1,3-Dichlorobenzene	ug/L	50	40.4	81	70-130	
1,3-Dichloropropane	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	39.9	80	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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

LABORATORY CONTROL SAMPLE: 2121473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	47.5	95	58-145	
2-Butanone (MEK)	ug/L	100	96.7	97	70-145	
2-Chlorotoluene	ug/L	50	40.4	81	70-130	
2-Hexanone	ug/L	100	91.6	92	70-144	
4-Chlorotoluene	ug/L	50	39.8	80	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.0	88	70-140	
Acetone	ug/L	100	97.4	97	50-175	
Benzene	ug/L	50	48.5	97	70-130	
Bromobenzene	ug/L	50	45.5	91	70-130	
Bromochloromethane	ug/L	50	50.9	102	70-130	
Bromodichloromethane	ug/L	50	46.0	92	70-130	
Bromoform	ug/L	50	45.3	91	70-130	
Bromomethane	ug/L	50	46.4	93	54-130	
Carbon tetrachloride	ug/L	50	45.6	91	70-132	
Chlorobenzene	ug/L	50	43.8	88	70-130	
Chloroethane	ug/L	50	46.4	93	64-134	
Chloroform	ug/L	50	46.7	93	70-130	
Chloromethane	ug/L	50	37.2	74	64-130	
cis-1,2-Dichloroethene	ug/L	50	51.7	103	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.2	96	70-130	
Dibromochloromethane	ug/L	50	47.2	94	70-130	
Dibromomethane	ug/L	50	45.2	90	70-131	
Dichlorodifluoromethane	ug/L	50	30.4	61	56-130	
Diisopropyl ether	ug/L	50	50.0	100	70-130	
Ethylbenzene	ug/L	50	42.8	86	70-130	
Hexachloro-1,3-butadiene	ug/L	50	44.2	88	70-130	
m&p-Xylene	ug/L	100	83.4	83	70-130	
Methyl-tert-butyl ether	ug/L	50	49.5	99	70-130	
Methylene Chloride	ug/L	50	51.5	103	63-130	
Naphthalene	ug/L	50	47.8	96	70-138	
o-Xylene	ug/L	50	42.6	85	70-130	
p-Isopropyltoluene	ug/L	50	43.0	86	70-130	
Styrene	ug/L	50	42.2	84	70-130	
Tetrachloroethene	ug/L	50	42.7	85	70-130	
Toluene	ug/L	50	44.9	90	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.3	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	45.9	92	70-132	
Trichloroethene	ug/L	50	51.0	102	70-130	
Trichlorofluoromethane	ug/L	50	45.1	90	62-133	
Vinyl acetate	ug/L	100	90.5	90	66-157	
Vinyl chloride	ug/L	50	47.9	96	50-150	
Xylene (Total)	ug/L	150	126	84	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			91	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

MATRIX SPIKE SAMPLE: 2121694

Parameter	Units	92359030001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	17.1	86	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	21.3	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	18.5	92	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	ND	20	21.1	106	70-130	
1,1-Dichloroethene	ug/L	ND	20	20.8	104	70-166	
1,1-Dichloropropene	ug/L	ND	20	20.7	103	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	18.9	94	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	18.9	95	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.6	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.4	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.5	98	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	17.7	89	70-130	
1,2-Dichloroethane	ug/L	ND	20	18.8	94	70-130	
1,2-Dichloropropane	ug/L	ND	20	20.9	105	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	17.3	86	70-130	
1,3-Dichloropropane	ug/L	ND	20	19.0	95	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	16.7	84	70-130	
2,2-Dichloropropane	ug/L	ND	20	20.9	104	70-130	
2-Butanone (MEK)	ug/L	ND	40	39.8	99	70-130	
2-Chlorotoluene	ug/L	ND	20	16.9	85	70-130	
2-Hexanone	ug/L	ND	40	39.3	98	70-130	
4-Chlorotoluene	ug/L	ND	20	17.3	86	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	38.4	96	70-130	
Acetone	ug/L	ND	40	42.7	107	70-130	
Benzene	ug/L	ND	20	20.9	104	70-148	
Bromobenzene	ug/L	ND	20	19.3	96	70-130	
Bromochloromethane	ug/L	ND	20	19.8	99	70-130	
Bromodichloromethane	ug/L	ND	20	20.2	101	70-130	
Bromoform	ug/L	ND	20	17.4	87	70-130	
Bromomethane	ug/L	ND	20	15.8	79	70-130	
Carbon tetrachloride	ug/L	ND	20	20.3	101	70-130	
Chlorobenzene	ug/L	ND	20	18.6	93	70-146	
Chloroethane	ug/L	ND	20	18.8	94	70-130	
Chloroform	ug/L	ND	20	19.9	99	70-130	
Chloromethane	ug/L	ND	20	16.5	83	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	21.8	109	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.9	99	70-130	
Dibromochloromethane	ug/L	ND	20	18.0	90	70-130	
Dibromomethane	ug/L	ND	20	19.9	100	70-130	
Dichlorodifluoromethane	ug/L	ND	20	12.6	63	70-130	M1
Diisopropyl ether	ug/L	ND	20	19.7	98	70-130	
Ethylbenzene	ug/L	ND	20	18.6	93	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	18.1	90	70-130	
m&p-Xylene	ug/L	ND	40	35.9	90	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.1	95	70-130	
Methylene Chloride	ug/L	ND	20	19.6	98	70-130	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

MATRIX SPIKE SAMPLE: 2121694

Parameter	Units	92359030001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	18.6	93	70-130	
o-Xylene	ug/L	ND	20	18.1	91	70-130	
p-Isopropyltoluene	ug/L	ND	20	18.1	90	70-130	
Styrene	ug/L	ND	20	17.6	88	70-130	
Tetrachloroethene	ug/L	ND	20	17.2	86	70-130	
Toluene	ug/L	ND	20	20.4	102	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	20.8	104	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	18.9	95	70-130	
Trichloroethene	ug/L	ND	20	21.2	106	69-151	
Trichlorofluoromethane	ug/L	ND	20	19.8	99	70-130	
Vinyl acetate	ug/L	ND	40	36.8	92	70-130	
Vinyl chloride	ug/L	ND	20	20.3	102	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				95	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 2121695

Parameter	Units	92359030002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	<0.33		30	
1,1,1-Trichloroethane	ug/L	ND	<0.48		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	<0.40		30	
1,1,2-Trichloroethane	ug/L	ND	<0.29		30	
1,1-Dichloroethane	ug/L	ND	<0.32		30	
1,1-Dichloroethene	ug/L	ND	<0.56		30	
1,1-Dichloropropene	ug/L	ND	<0.49		30	
1,2,3-Trichlorobenzene	ug/L	ND	<0.33		30	
1,2,3-Trichloropropane	ug/L	ND	<0.41		30	
1,2,4-Trichlorobenzene	ug/L	ND	<0.35		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	<2.0		30	
1,2-Dibromoethane (EDB)	ug/L	ND	<0.27		30	
1,2-Dichlorobenzene	ug/L	ND	<0.30		30	
1,2-Dichloroethane	ug/L	ND	<0.24		30	
1,2-Dichloropropane	ug/L	ND	<0.27		30	
1,3-Dichlorobenzene	ug/L	ND	<0.24		30	
1,3-Dichloropropane	ug/L	ND	<0.28		30	
1,4-Dichlorobenzene	ug/L	ND	<0.33		30	
2,2-Dichloropropane	ug/L	ND	<0.13		30	
2-Butanone (MEK)	ug/L	ND	<0.96		30	
2-Chlorotoluene	ug/L	ND	<0.35		30	
2-Hexanone	ug/L	ND	<0.46		30	
4-Chlorotoluene	ug/L	ND	<0.31		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	<0.33		30	
Acetone	ug/L	ND	<10.0		30	
Benzene	ug/L	ND	1.6		30	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

SAMPLE DUPLICATE: 2121695

Parameter	Units	92359030002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	<0.30		30	
Bromochloromethane	ug/L	ND	<0.17		30	
Bromodichloromethane	ug/L	ND	<0.18		30	
Bromoform	ug/L	ND	<0.26		30	
Bromomethane	ug/L	ND	<0.29		30	
Carbon tetrachloride	ug/L	ND	<0.25		30	
Chlorobenzene	ug/L	ND	<0.23		30	
Chloroethane	ug/L	ND	<0.54		30	
Chloroform	ug/L	ND	<0.14		30	
Chloromethane	ug/L	ND	<0.11		30	
cis-1,2-Dichloroethene	ug/L	ND	<0.19		30	
cis-1,3-Dichloropropene	ug/L	ND	<0.13		30	
Dibromochloromethane	ug/L	ND	<0.21		30	
Dibromomethane	ug/L	ND	<0.21		30	
Dichlorodifluoromethane	ug/L	ND	<0.21		30	
Diisopropyl ether	ug/L	ND	<0.12		30	
Ethylbenzene	ug/L	1.6	2.8	57	30	D6
Hexachloro-1,3-butadiene	ug/L	ND	<0.71		30	
m&p-Xylene	ug/L	ND	6.3		30	
Methyl-tert-butyl ether	ug/L	ND	<0.21		30	
Methylene Chloride	ug/L	ND	<0.97		30	
Naphthalene	ug/L	ND	0.49J		30	
o-Xylene	ug/L	7.4	9.3	23	30	
p-Isopropyltoluene	ug/L	ND	<0.31		30	
Styrene	ug/L	ND	<0.26		30	
Tetrachloroethene	ug/L	ND	<0.46		30	
Toluene	ug/L	9.0	18.4	68	30	D6
trans-1,2-Dichloroethene	ug/L	ND	<0.49		30	
trans-1,3-Dichloropropene	ug/L	ND	<0.26		30	
Trichloroethene	ug/L	ND	<0.47		30	
Trichlorofluoromethane	ug/L	ND	<0.20		30	
Vinyl acetate	ug/L	ND	<0.35		30	
Vinyl chloride	ug/L	ND	<0.62		30	
Xylene (Total)	ug/L	7.4	15.6	71	30	
1,2-Dichloroethane-d4 (S)	%	91	96	5		
4-Bromofluorobenzene (S)	%	95	98	2		
Toluene-d8 (S)	%	108	106	1		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALIFIERS

Project: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

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.

TNTC - Too Numerous To Count

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

C8	Result may be biased high due to carryover from previously analyzed sample.
C9	Common Laboratory Contaminant.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
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: CMC ATHENS SEMIANNUAL GW EVENT
Pace Project No.: 92358909

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92358909001	**MW-1**	EPA 8260	382772		
92358909002	**MW-1D**	EPA 8260	382772		
92358909003	**MW-3A**	EPA 8260	382772		
92358909004	**DUP10112017**	EPA 8260	382463		
92358909005	**MW-9A**	EPA 8260	382463		
92358909006	**MW-10**	EPA 8260	382463		
92358909007	**MW-11**	EPA 8260	382772		
92358909008	**MW-14**	EPA 8260	382463		
92358909009	**MW-4A**	EPA 8260	382463		
92358909010	**MW-12**	EPA 8260	382809		
92358909011	**TRIP BLANK**	EPA 8260	382178		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: August 4, 2017 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.04	Issuing Authority: Pace Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: Apex

Project #:

WO# : 92358909

92358909

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

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

Date/Initials Person Examining: 10/13/17

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 1701

Type of Ice: ☑ Wet ☐ Blue ☐ None

Correction Factor: **Cooler Temp Corrected (°C):** 3.6

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

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.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-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: _____

Lot ID of split containers: _____

Project Manager SCURF Review: TC **Date:** 10/13/17

Project Manager SRF Review: TC **Date:** 10/13/17

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)

WO#: 92358909
PM: RWC Due Date: 10/19/17
CLIENT: 92-APEX MOOR

***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 #

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)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 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																W												
2																W												
3																W												
4																W												
5																W												
6																W												
7																W												
8																W												
9																W												
10																W												
11																2W												
12																												

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:		Section B Required Project Information:		Section C Invoice Information:	
Company:	APEX Companies - NC	Report To:	Grant Watkins	Attention:	Emily Cottle
Address:	1135 Kildaire Farm Rd.	Copy To:		Company Name:	
Cary, NC 27511				Address:	
Email:	grant.watkins@apexcos.com	Purchase Order #:		Pace Quote:	
Phone:	980-417-9935 Fax	Project Name:	CMC Athens SemiAnnual GW event	Pace Project Manager:	trey.carter@pacelabs.com,
Requested Due Date:	Std.	Project #:		Pace Profile #:	8490-1

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): 8260 Full List	Trip BLANK	Residual Chlorine (Y/N)	9235 8909
1	MW-1					10/10/17	1530		3				X						X			001
2	MW-1D					10/11/17	1105		3				X						X			002
3	MW-3A					10/11/17	0905		3				X						X			003
4	DUP10112017					10/11/17	—		3				X						X			004
5	MW-9A					10/11/17	1210		3				X						X			005
6	MW-10					10/10/17	1410		3				X						X			006
7	MW-11					10/10/17	1640		3				X						X			007
8	MW-14					10/11/17	0930		3				X						X			008
9	MW-4A					10/11/17	1255		3				X						X			009
10	MW-12					10/11/17	1410		3				X						X			010
11	TRIP BLANK					—	—		2				X							X		011
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Kattl. Schwarz / APEX	10/12/17		Pace	10-12-17	1147				
	Pace	10-12-17	1200	Pace	10/12	1200	3.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Schwarz

SIGNATURE of SAMPLER: Kattl. Schwarz

DATE Signed: 10/11/17

APPENDIX C

LABORATORY ANALYTICAL REPORT FOR DPT GROUNDWATER SAMPLES

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

October 20, 2017

Grant Watkins
Apex Companies
1135 Kildaire Farm Rd.
Suite 200
Cary, NC 27511

RE: Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Dear Grant Watkins:
Enclosed are the analytical results for sample(s) received by the laboratory on October 13, 2017. 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,

Trey Carter
trey.carter@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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

CERTIFICATIONS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
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

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

SAMPLE SUMMARY

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92359173001	**GW-1 (55)**	Water	10/11/17 15:25	10/13/17 16:00
92359173002	**GW-1 (74)**	Water	10/11/17 16:15	10/13/17 16:00
92359173003	**GW-2 (50)**	Water	10/10/17 12:05	10/13/17 16:00
92359173004	**GW-2 (71)**	Water	10/10/17 14:10	10/13/17 16:00
92359173005	**GW-3 (50)**	Water	10/12/17 09:20	10/13/17 16:00
92359173006	**GW-3 (70)**	Water	10/12/17 10:10	10/13/17 16:00
92359173007	**GW-4 (50)**	Water	10/10/17 16:00	10/13/17 16:00
92359173008	**GW-4 (70)**	Water	10/10/17 16:35	10/13/17 16:00
92359173009	**GW-5 (29)**	Water	10/11/17 08:35	10/13/17 16:00
92359173010	**GW-5 (52)**	Water	10/11/17 09:15	10/13/17 16:00
92359173011	**GW-6 (55)**	Water	10/11/17 11:00	10/13/17 16:00
92359173012	**GW-6 (74)**	Water	10/11/17 13:20	10/13/17 16:00
92359173013	**GW-Dup-01**	Water	10/10/17 00:00	10/13/17 16:00
92359173014	**GW-Dup-02**	Water	10/11/17 00:00	10/13/17 16:00
92359173015	**Trip Blank**	Water	10/11/17 00:00	10/13/17 16:00

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Huntersville, NC 28078
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SAMPLE ANALYTE COUNT

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92359173001	**GW-1 (55)**	EPA 8260	GAW	63	PASI-C
92359173002	**GW-1 (74)**	EPA 8260	GAW	63	PASI-C
92359173003	**GW-2 (50)**	EPA 8260	GAW	63	PASI-C
92359173004	**GW-2 (71)**	EPA 8260	GAW	63	PASI-C
92359173005	**GW-3 (50)**	EPA 8260	ZDO	63	PASI-C
92359173006	**GW-3 (70)**	EPA 8260	ZDO	63	PASI-C
92359173007	**GW-4 (50)**	EPA 8260	ZDO	63	PASI-C
92359173008	**GW-4 (70)**	EPA 8260	ZDO	63	PASI-C
92359173009	**GW-5 (29)**	EPA 8260	GAW	63	PASI-C
92359173010	**GW-5 (52)**	EPA 8260	ZDO	63	PASI-C
92359173011	**GW-6 (55)**	EPA 8260	ZDO	63	PASI-C
92359173012	**GW-6 (74)**	EPA 8260	ZDO	63	PASI-C
92359173013	**GW-Dup-01**	EPA 8260	ZDO	63	PASI-C
92359173014	**GW-Dup-02**	EPA 8260	ZDO	63	PASI-C
92359173015	**Trip Blank**	EPA 8260	ZDO	63	PASI-C

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-1 (55) **Lab ID: 92359173001** Collected: 10/11/17 15:25 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**11.0J**	ug/L	25.0	10.0	1		10/18/17 19:20	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/18/17 19:20	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 19:20	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/18/17 19:20	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/18/17 19:20	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/18/17 19:20	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/18/17 19:20	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/18/17 19:20	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/18/17 19:20	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 19:20	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/18/17 19:20	75-00-3	
Chloroform	**1.5**	ug/L	1.0	0.14	1		10/18/17 19:20	67-66-3	B
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/18/17 19:20	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 19:20	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 19:20	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/18/17 19:20	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 19:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/18/17 19:20	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 19:20	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 19:20	95-50-1	
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 19:20	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 19:20	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 19:20	75-71-8	
1,1-Dichloroethane	**1.1**	ug/L	1.0	0.32	1		10/18/17 19:20	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/18/17 19:20	107-06-2	
1,1-Dichloroethene	**13.7**	ug/L	1.0	0.56	1		10/18/17 19:20	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/L	1.0	0.19	1		10/18/17 19:20	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 19:20	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/18/17 19:20	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/18/17 19:20	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/18/17 19:20	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 19:20	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/18/17 19:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 19:20	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/18/17 19:20	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 19:20	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/18/17 19:20	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/18/17 19:20	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 19:20	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/18/17 19:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/18/17 19:20	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/18/17 19:20	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 19:20	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 19:20	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/18/17 19:20	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/18/17 19:20	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-1 (55) **Lab ID: 92359173001** Collected: 10/11/17 15:25 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/18/17 19:20	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 19:20	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 19:20	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 19:20	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/18/17 19:20	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/18/17 19:20	79-00-5	
Trichloroethene	**26.0**	ug/L	1.0	0.47	1		10/18/17 19:20	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/18/17 19:20	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/18/17 19:20	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/18/17 19:20	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/18/17 19:20	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/18/17 19:20	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/18/17 19:20	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 19:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/18/17 19:20	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/18/17 19:20	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/18/17 19:20	2037-26-5	

Sample: GW-1 (74) **Lab ID: 92359173002** Collected: 10/11/17 16:15 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**273**	ug/L	25.0	10.0	1		10/18/17 19:36	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/18/17 19:36	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 19:36	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/18/17 19:36	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/18/17 19:36	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/18/17 19:36	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/18/17 19:36	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/18/17 19:36	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/18/17 19:36	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 19:36	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/18/17 19:36	75-00-3	
Chloroform	**1.3**	ug/L	1.0	0.14	1		10/18/17 19:36	67-66-3	B
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/18/17 19:36	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 19:36	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 19:36	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/18/17 19:36	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 19:36	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/18/17 19:36	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 19:36	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 19:36	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-1 (74) **Lab ID: 92359173002** Collected: 10/11/17 16:15 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 19:36	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 19:36	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 19:36	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/18/17 19:36	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/18/17 19:36	107-06-2	
1,1-Dichloroethene	**2.8**	ug/L	1.0	0.56	1		10/18/17 19:36	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/L	1.0	0.19	1		10/18/17 19:36	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 19:36	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/18/17 19:36	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/18/17 19:36	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/18/17 19:36	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 19:36	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/18/17 19:36	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 19:36	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/18/17 19:36	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 19:36	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/18/17 19:36	87-68-3	
2-Hexanone	**1.3J**	ug/L	5.0	0.46	1		10/18/17 19:36	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 19:36	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/18/17 19:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/18/17 19:36	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/18/17 19:36	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 19:36	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 19:36	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/18/17 19:36	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/18/17 19:36	79-34-5	
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/18/17 19:36	127-18-4	
Toluene	**0.32J**	ug/L	1.0	0.26	1		10/18/17 19:36	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 19:36	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 19:36	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/18/17 19:36	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/18/17 19:36	79-00-5	
Trichloroethene	**<0.47**	ug/L	1.0	0.47	1		10/18/17 19:36	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/18/17 19:36	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/18/17 19:36	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/18/17 19:36	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/18/17 19:36	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/18/17 19:36	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/18/17 19:36	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 19:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/18/17 19:36	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/18/17 19:36	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/18/17 19:36	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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-2 (50) **Lab ID: 92359173003** Collected: 10/10/17 12:05 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<20.0**	ug/L	50.0	20.0	2		10/18/17 17:44	67-64-1	
Benzene	**94.0**	ug/L	2.0	0.50	2		10/18/17 17:44	71-43-2	
Bromobenzene	**<0.60**	ug/L	2.0	0.60	2		10/18/17 17:44	108-86-1	
Bromochloromethane	**<0.34**	ug/L	2.0	0.34	2		10/18/17 17:44	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	2.0	0.36	2		10/18/17 17:44	75-27-4	
Bromoform	**<0.52**	ug/L	2.0	0.52	2		10/18/17 17:44	75-25-2	
Bromomethane	**<0.58**	ug/L	4.0	0.58	2		10/18/17 17:44	74-83-9	
2-Butanone (MEK)	**<1.9**	ug/L	10.0	1.9	2		10/18/17 17:44	78-93-3	
Carbon tetrachloride	**<0.50**	ug/L	2.0	0.50	2		10/18/17 17:44	56-23-5	
Chlorobenzene	**<0.46**	ug/L	2.0	0.46	2		10/18/17 17:44	108-90-7	
Chloroethane	**<1.1**	ug/L	2.0	1.1	2		10/18/17 17:44	75-00-3	
Chloroform	**0.63J**	ug/L	2.0	0.28	2		10/18/17 17:44	67-66-3	B,C9
Chloromethane	**<0.22**	ug/L	2.0	0.22	2		10/18/17 17:44	74-87-3	
2-Chlorotoluene	**<0.70**	ug/L	2.0	0.70	2		10/18/17 17:44	95-49-8	
4-Chlorotoluene	**<0.62**	ug/L	2.0	0.62	2		10/18/17 17:44	106-43-4	
1,2-Dibromo-3-chloropropane	**<4.0**	ug/L	4.0	4.0	2		10/18/17 17:44	96-12-8	
Dibromochloromethane	**<0.42**	ug/L	2.0	0.42	2		10/18/17 17:44	124-48-1	
1,2-Dibromoethane (EDB)	**<0.54**	ug/L	2.0	0.54	2		10/18/17 17:44	106-93-4	
Dibromomethane	**<0.42**	ug/L	2.0	0.42	2		10/18/17 17:44	74-95-3	
1,2-Dichlorobenzene	**<0.60**	ug/L	2.0	0.60	2		10/18/17 17:44	95-50-1	
1,3-Dichlorobenzene	**<0.48**	ug/L	2.0	0.48	2		10/18/17 17:44	541-73-1	
1,4-Dichlorobenzene	**<0.66**	ug/L	2.0	0.66	2		10/18/17 17:44	106-46-7	
Dichlorodifluoromethane	**<0.42**	ug/L	2.0	0.42	2		10/18/17 17:44	75-71-8	
1,1-Dichloroethane	**<0.64**	ug/L	2.0	0.64	2		10/18/17 17:44	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	2.0	0.48	2		10/18/17 17:44	107-06-2	
1,1-Dichloroethene	**<1.1**	ug/L	2.0	1.1	2		10/18/17 17:44	75-35-4	
cis-1,2-Dichloroethene	**5.9**	ug/L	2.0	0.38	2		10/18/17 17:44	156-59-2	
trans-1,2-Dichloroethene	**<0.98**	ug/L	2.0	0.98	2		10/18/17 17:44	156-60-5	
1,2-Dichloropropane	**<0.54**	ug/L	2.0	0.54	2		10/18/17 17:44	78-87-5	
1,3-Dichloropropane	**<0.56**	ug/L	2.0	0.56	2		10/18/17 17:44	142-28-9	
2,2-Dichloropropane	**<0.26**	ug/L	2.0	0.26	2		10/18/17 17:44	594-20-7	
1,1-Dichloropropene	**<0.98**	ug/L	2.0	0.98	2		10/18/17 17:44	563-58-6	
cis-1,3-Dichloropropene	**<0.26**	ug/L	2.0	0.26	2		10/18/17 17:44	10061-01-5	
trans-1,3-Dichloropropene	**<0.52**	ug/L	2.0	0.52	2		10/18/17 17:44	10061-02-6	
Diisopropyl ether	**<0.24**	ug/L	2.0	0.24	2		10/18/17 17:44	108-20-3	
Ethylbenzene	**<0.60**	ug/L	2.0	0.60	2		10/18/17 17:44	100-41-4	
Hexachloro-1,3-butadiene	**<1.4**	ug/L	2.0	1.4	2		10/18/17 17:44	87-68-3	
2-Hexanone	**<0.92**	ug/L	10.0	0.92	2		10/18/17 17:44	591-78-6	
p-Isopropyltoluene	**<0.62**	ug/L	2.0	0.62	2		10/18/17 17:44	99-87-6	
Methylene Chloride	**<1.9**	ug/L	4.0	1.9	2		10/18/17 17:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.66**	ug/L	10.0	0.66	2		10/18/17 17:44	108-10-1	
Methyl-tert-butyl ether	**<0.42**	ug/L	2.0	0.42	2		10/18/17 17:44	1634-04-4	
Naphthalene	**<0.48**	ug/L	2.0	0.48	2		10/18/17 17:44	91-20-3	
Styrene	**<0.52**	ug/L	2.0	0.52	2		10/18/17 17:44	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.66**	ug/L	2.0	0.66	2		10/18/17 17:44	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.80**	ug/L	2.0	0.80	2		10/18/17 17:44	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-2 (50) **Lab ID: 92359173003** Collected: 10/10/17 12:05 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**1.3J**	ug/L	2.0	0.92	2		10/18/17 17:44	127-18-4	
Toluene	**<0.52**	ug/L	2.0	0.52	2		10/18/17 17:44	108-88-3	
1,2,3-Trichlorobenzene	**<0.66**	ug/L	2.0	0.66	2		10/18/17 17:44	87-61-6	
1,2,4-Trichlorobenzene	**<0.70**	ug/L	2.0	0.70	2		10/18/17 17:44	120-82-1	
1,1,1-Trichloroethane	**<0.96**	ug/L	2.0	0.96	2		10/18/17 17:44	71-55-6	
1,1,2-Trichloroethane	**<0.58**	ug/L	2.0	0.58	2		10/18/17 17:44	79-00-5	
Trichloroethene	**161**	ug/L	2.0	0.94	2		10/18/17 17:44	79-01-6	
Trichlorofluoromethane	**<0.40**	ug/L	2.0	0.40	2		10/18/17 17:44	75-69-4	
1,2,3-Trichloropropane	**<0.82**	ug/L	2.0	0.82	2		10/18/17 17:44	96-18-4	
Vinyl acetate	**<0.70**	ug/L	4.0	0.70	2		10/18/17 17:44	108-05-4	
Vinyl chloride	**<1.2**	ug/L	2.0	1.2	2		10/18/17 17:44	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	2.0	2		10/18/17 17:44	1330-20-7	
m&p-Xylene	**<1.3**	ug/L	4.0	1.3	2		10/18/17 17:44	179601-23-1	
o-Xylene	**0.46J**	ug/L	2.0	0.46	2		10/18/17 17:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		2		10/18/17 17:44	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		2		10/18/17 17:44	17060-07-0	
Toluene-d8 (S)	97	%	70-130		2		10/18/17 17:44	2037-26-5	

Sample: GW-2 (71) **Lab ID: 92359173004** Collected: 10/10/17 14:10 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**10.5J**	ug/L	25.0	10.0	1		10/18/17 19:52	67-64-1	
Benzene	**73.6**	ug/L	1.0	0.25	1		10/18/17 19:52	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 19:52	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/18/17 19:52	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/18/17 19:52	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/18/17 19:52	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/18/17 19:52	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/18/17 19:52	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/18/17 19:52	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 19:52	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/18/17 19:52	75-00-3	
Chloroform	**0.38J**	ug/L	1.0	0.14	1		10/18/17 19:52	67-66-3	B,C9
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/18/17 19:52	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 19:52	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 19:52	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/18/17 19:52	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 19:52	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/18/17 19:52	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 19:52	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 19:52	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-2 (71) **Lab ID: 92359173004** Collected: 10/10/17 14:10 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 19:52	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 19:52	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 19:52	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/18/17 19:52	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/18/17 19:52	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/18/17 19:52	75-35-4	
cis-1,2-Dichloroethene	**1.7**	ug/L	1.0	0.19	1		10/18/17 19:52	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 19:52	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/18/17 19:52	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/18/17 19:52	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/18/17 19:52	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 19:52	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/18/17 19:52	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 19:52	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/18/17 19:52	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 19:52	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/18/17 19:52	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/18/17 19:52	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 19:52	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/18/17 19:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/18/17 19:52	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/18/17 19:52	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 19:52	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 19:52	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/18/17 19:52	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/18/17 19:52	79-34-5	
Tetrachloroethene	**1.3**	ug/L	1.0	0.46	1		10/18/17 19:52	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 19:52	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 19:52	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 19:52	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/18/17 19:52	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/18/17 19:52	79-00-5	
Trichloroethene	**161**	ug/L	1.0	0.47	1		10/18/17 19:52	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/18/17 19:52	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/18/17 19:52	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/18/17 19:52	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/18/17 19:52	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/18/17 19:52	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/18/17 19:52	179601-23-1	
o-Xylene	**0.30J**	ug/L	1.0	0.23	1		10/18/17 19:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		10/18/17 19:52	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/18/17 19:52	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/18/17 19:52	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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-3 (50) **Lab ID: 92359173005** Collected: 10/12/17 09:20 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**16.8J**	ug/L	25.0	10.0	1		10/18/17 08:02	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/18/17 08:02	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 08:02	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/18/17 08:02	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/18/17 08:02	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:02	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/18/17 08:02	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/18/17 08:02	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/18/17 08:02	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 08:02	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/18/17 08:02	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/18/17 08:02	67-66-3	
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/18/17 08:02	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 08:02	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 08:02	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/18/17 08:02	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:02	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/18/17 08:02	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:02	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 08:02	95-50-1	
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 08:02	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 08:02	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:02	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/18/17 08:02	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/18/17 08:02	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/18/17 08:02	75-35-4	
cis-1,2-Dichloroethene	**3.1**	ug/L	1.0	0.19	1		10/18/17 08:02	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 08:02	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/18/17 08:02	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/18/17 08:02	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/18/17 08:02	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 08:02	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/18/17 08:02	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:02	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/18/17 08:02	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 08:02	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/18/17 08:02	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/18/17 08:02	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 08:02	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/18/17 08:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/18/17 08:02	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:02	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 08:02	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:02	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/18/17 08:02	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/18/17 08:02	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-3 (50) **Lab ID: 92359173005** Collected: 10/12/17 09:20 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/18/17 08:02	127-18-4	
Toluene	**0.45J**	ug/L	1.0	0.26	1		10/18/17 08:02	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 08:02	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 08:02	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/18/17 08:02	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/18/17 08:02	79-00-5	
Trichloroethene	**1.1**	ug/L	1.0	0.47	1		10/18/17 08:02	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/18/17 08:02	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/18/17 08:02	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/18/17 08:02	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/18/17 08:02	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/18/17 08:02	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/18/17 08:02	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 08:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/18/17 08:02	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/18/17 08:02	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		10/18/17 08:02	2037-26-5	

Sample: GW-3 (70) **Lab ID: 92359173006** Collected: 10/12/17 10:10 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/18/17 08:20	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/18/17 08:20	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 08:20	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/18/17 08:20	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/18/17 08:20	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:20	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/18/17 08:20	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/18/17 08:20	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/18/17 08:20	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 08:20	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/18/17 08:20	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/18/17 08:20	67-66-3	
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/18/17 08:20	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 08:20	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 08:20	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/18/17 08:20	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:20	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/18/17 08:20	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:20	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 08:20	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-3 (70) **Lab ID: 92359173006** Collected: 10/12/17 10:10 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 08:20	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 08:20	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:20	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/18/17 08:20	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/18/17 08:20	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/18/17 08:20	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/L	1.0	0.19	1		10/18/17 08:20	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 08:20	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/18/17 08:20	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/18/17 08:20	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/18/17 08:20	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 08:20	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/18/17 08:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:20	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/18/17 08:20	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 08:20	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/18/17 08:20	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/18/17 08:20	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 08:20	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/18/17 08:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/18/17 08:20	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:20	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 08:20	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:20	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/18/17 08:20	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/18/17 08:20	79-34-5	
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/18/17 08:20	127-18-4	
Toluene	**0.34J**	ug/L	1.0	0.26	1		10/18/17 08:20	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 08:20	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 08:20	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/18/17 08:20	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/18/17 08:20	79-00-5	
Trichloroethene	**<0.47**	ug/L	1.0	0.47	1		10/18/17 08:20	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/18/17 08:20	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/18/17 08:20	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/18/17 08:20	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/18/17 08:20	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/18/17 08:20	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/18/17 08:20	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 08:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/18/17 08:20	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/18/17 08:20	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/18/17 08:20	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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-4 (50) **Lab ID: 92359173007** Collected: 10/10/17 16:00 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/18/17 08:37	67-64-1	
Benzene	**9.9**	ug/L	1.0	0.25	1		10/18/17 08:37	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 08:37	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/18/17 08:37	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/18/17 08:37	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:37	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/18/17 08:37	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/18/17 08:37	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/18/17 08:37	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 08:37	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/18/17 08:37	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/18/17 08:37	67-66-3	
Chloromethane	**0.20J**	ug/L	1.0	0.11	1		10/18/17 08:37	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 08:37	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 08:37	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/18/17 08:37	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:37	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/18/17 08:37	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:37	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 08:37	95-50-1	
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 08:37	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 08:37	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:37	75-71-8	
1,1-Dichloroethane	**5.7**	ug/L	1.0	0.32	1		10/18/17 08:37	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/18/17 08:37	107-06-2	
1,1-Dichloroethene	**7.8**	ug/L	1.0	0.56	1		10/18/17 08:37	75-35-4	
cis-1,2-Dichloroethene	**102**	ug/L	1.0	0.19	1		10/18/17 08:37	156-59-2	
trans-1,2-Dichloroethene	**1.4**	ug/L	1.0	0.49	1		10/18/17 08:37	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/18/17 08:37	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/18/17 08:37	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/18/17 08:37	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 08:37	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/18/17 08:37	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:37	10061-02-6	
Diisopropyl ether	**0.15J**	ug/L	1.0	0.12	1		10/18/17 08:37	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 08:37	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/18/17 08:37	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/18/17 08:37	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 08:37	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/18/17 08:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/18/17 08:37	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:37	1634-04-4	
Naphthalene	**0.69J**	ug/L	1.0	0.24	1		10/18/17 08:37	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:37	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/18/17 08:37	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/18/17 08:37	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-4 (50) **Lab ID: 92359173007** Collected: 10/10/17 16:00 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/18/17 08:37	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:37	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 08:37	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 08:37	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/18/17 08:37	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/18/17 08:37	79-00-5	
Trichloroethene	**54.9**	ug/L	1.0	0.47	1		10/18/17 08:37	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/18/17 08:37	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/18/17 08:37	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/18/17 08:37	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/18/17 08:37	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/18/17 08:37	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/18/17 08:37	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 08:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/18/17 08:37	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/18/17 08:37	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/18/17 08:37	2037-26-5	

Sample: GW-4 (70) **Lab ID: 92359173008** Collected: 10/10/17 16:35 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/18/17 08:54	67-64-1	
Benzene	**0.95J**	ug/L	1.0	0.25	1		10/18/17 08:54	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 08:54	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/18/17 08:54	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/18/17 08:54	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:54	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/18/17 08:54	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/18/17 08:54	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/18/17 08:54	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 08:54	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/18/17 08:54	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/18/17 08:54	67-66-3	
Chloromethane	**0.26J**	ug/L	1.0	0.11	1		10/18/17 08:54	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 08:54	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 08:54	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/18/17 08:54	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:54	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/18/17 08:54	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:54	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 08:54	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-4 (70) **Lab ID: 92359173008** Collected: 10/10/17 16:35 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 08:54	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 08:54	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:54	75-71-8	
1,1-Dichloroethane	**1.5**	ug/L	1.0	0.32	1		10/18/17 08:54	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/18/17 08:54	107-06-2	
1,1-Dichloroethene	**4.2**	ug/L	1.0	0.56	1		10/18/17 08:54	75-35-4	
cis-1,2-Dichloroethene	**4.9**	ug/L	1.0	0.19	1		10/18/17 08:54	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 08:54	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/18/17 08:54	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/18/17 08:54	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/18/17 08:54	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 08:54	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/18/17 08:54	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:54	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/18/17 08:54	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 08:54	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/18/17 08:54	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/18/17 08:54	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 08:54	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/18/17 08:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/18/17 08:54	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/18/17 08:54	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 08:54	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:54	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/18/17 08:54	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/18/17 08:54	79-34-5	
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/18/17 08:54	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 08:54	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 08:54	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 08:54	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/18/17 08:54	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/18/17 08:54	79-00-5	
Trichloroethene	**2.8**	ug/L	1.0	0.47	1		10/18/17 08:54	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/18/17 08:54	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/18/17 08:54	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/18/17 08:54	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/18/17 08:54	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/18/17 08:54	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/18/17 08:54	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 08:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/18/17 08:54	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/18/17 08:54	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		10/18/17 08:54	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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-5 (29) **Lab ID: 92359173009** Collected: 10/11/17 08:35 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/18/17 20:08	67-64-1	
Benzene	**1.0J**	ug/L	1.0	0.25	1		10/18/17 20:08	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 20:08	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/18/17 20:08	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/18/17 20:08	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/18/17 20:08	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/18/17 20:08	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/18/17 20:08	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/18/17 20:08	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 20:08	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/18/17 20:08	75-00-3	
Chloroform	**0.56J**	ug/L	1.0	0.14	1		10/18/17 20:08	67-66-3	B,C9
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/18/17 20:08	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 20:08	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 20:08	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/18/17 20:08	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 20:08	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/18/17 20:08	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 20:08	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 20:08	95-50-1	
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 20:08	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 20:08	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 20:08	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/18/17 20:08	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/18/17 20:08	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/18/17 20:08	75-35-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.19	1		10/18/17 20:08	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 20:08	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/18/17 20:08	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/18/17 20:08	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/18/17 20:08	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 20:08	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/18/17 20:08	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 20:08	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/18/17 20:08	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 20:08	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/18/17 20:08	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/18/17 20:08	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 20:08	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/18/17 20:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/18/17 20:08	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/18/17 20:08	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 20:08	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 20:08	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/18/17 20:08	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/18/17 20:08	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-5 (29) **Lab ID: 92359173009** Collected: 10/11/17 08:35 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/18/17 20:08	127-18-4	
Toluene	**0.35J**	ug/L	1.0	0.26	1		10/18/17 20:08	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 20:08	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 20:08	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/18/17 20:08	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/18/17 20:08	79-00-5	
Trichloroethene	**3.1**	ug/L	1.0	0.47	1		10/18/17 20:08	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/18/17 20:08	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/18/17 20:08	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/18/17 20:08	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/18/17 20:08	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/18/17 20:08	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/18/17 20:08	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 20:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/18/17 20:08	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/18/17 20:08	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/18/17 20:08	2037-26-5	

Sample: GW-5 (52) **Lab ID: 92359173010** Collected: 10/11/17 09:15 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/19/17 00:10	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/19/17 00:10	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 00:10	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/19/17 00:10	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/19/17 00:10	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/19/17 00:10	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/19/17 00:10	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/19/17 00:10	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/19/17 00:10	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/19/17 00:10	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/19/17 00:10	75-00-3	
Chloroform	**0.23J**	ug/L	1.0	0.14	1		10/19/17 00:10	67-66-3	B,C9
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/19/17 00:10	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/19/17 00:10	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/19/17 00:10	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/19/17 00:10	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 00:10	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/19/17 00:10	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 00:10	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 00:10	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-5 (52) **Lab ID: 92359173010** Collected: 10/11/17 09:15 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/19/17 00:10	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/19/17 00:10	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 00:10	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/19/17 00:10	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/19/17 00:10	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/19/17 00:10	75-35-4	
cis-1,2-Dichloroethene	**0.35J**	ug/L	1.0	0.19	1		10/19/17 00:10	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/19/17 00:10	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/19/17 00:10	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/19/17 00:10	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/19/17 00:10	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/19/17 00:10	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/19/17 00:10	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/19/17 00:10	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/19/17 00:10	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 00:10	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/19/17 00:10	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/19/17 00:10	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/19/17 00:10	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/19/17 00:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/19/17 00:10	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/19/17 00:10	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/19/17 00:10	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/19/17 00:10	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/19/17 00:10	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/19/17 00:10	79-34-5	
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/19/17 00:10	127-18-4	
Toluene	**0.45J**	ug/L	1.0	0.26	1		10/19/17 00:10	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/19/17 00:10	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/19/17 00:10	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/19/17 00:10	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/19/17 00:10	79-00-5	
Trichloroethene	**4.1**	ug/L	1.0	0.47	1		10/19/17 00:10	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/19/17 00:10	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/19/17 00:10	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/19/17 00:10	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/19/17 00:10	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/19/17 00:10	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/19/17 00:10	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/19/17 00:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/19/17 00:10	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/19/17 00:10	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		10/19/17 00:10	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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-6 (55) **Lab ID: 92359173011** Collected: 10/11/17 11:00 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**36.0**	ug/L	25.0	10.0	1		10/19/17 00:27	67-64-1	
Benzene	**1.0J**	ug/L	1.0	0.25	1		10/19/17 00:27	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 00:27	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/19/17 00:27	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/19/17 00:27	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/19/17 00:27	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/19/17 00:27	74-83-9	
2-Butanone (MEK)	**2.8J**	ug/L	5.0	0.96	1		10/19/17 00:27	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/19/17 00:27	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/19/17 00:27	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/19/17 00:27	75-00-3	
Chloroform	**0.34J**	ug/L	1.0	0.14	1		10/19/17 00:27	67-66-3	B,C9
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/19/17 00:27	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/19/17 00:27	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/19/17 00:27	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/19/17 00:27	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 00:27	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/19/17 00:27	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 00:27	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 00:27	95-50-1	
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/19/17 00:27	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/19/17 00:27	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 00:27	75-71-8	
1,1-Dichloroethane	**0.90J**	ug/L	1.0	0.32	1		10/19/17 00:27	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/19/17 00:27	107-06-2	
1,1-Dichloroethene	**2.2**	ug/L	1.0	0.56	1		10/19/17 00:27	75-35-4	
cis-1,2-Dichloroethene	**0.36J**	ug/L	1.0	0.19	1		10/19/17 00:27	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/19/17 00:27	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/19/17 00:27	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/19/17 00:27	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/19/17 00:27	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/19/17 00:27	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/19/17 00:27	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/19/17 00:27	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/19/17 00:27	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 00:27	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/19/17 00:27	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/19/17 00:27	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/19/17 00:27	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/19/17 00:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/19/17 00:27	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/19/17 00:27	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/19/17 00:27	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/19/17 00:27	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/19/17 00:27	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/19/17 00:27	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-6 (55) **Lab ID: 92359173011** Collected: 10/11/17 11:00 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/19/17 00:27	127-18-4	
Toluene	**0.41J**	ug/L	1.0	0.26	1		10/19/17 00:27	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/19/17 00:27	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/19/17 00:27	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/19/17 00:27	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/19/17 00:27	79-00-5	
Trichloroethene	**6.5**	ug/L	1.0	0.47	1		10/19/17 00:27	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/19/17 00:27	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/19/17 00:27	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/19/17 00:27	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/19/17 00:27	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/19/17 00:27	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/19/17 00:27	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/19/17 00:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/19/17 00:27	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/19/17 00:27	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		10/19/17 00:27	2037-26-5	

Sample: GW-6 (74) **Lab ID: 92359173012** Collected: 10/11/17 13:20 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**11.2J**	ug/L	25.0	10.0	1		10/19/17 00:45	67-64-1	
Benzene	**0.93J**	ug/L	1.0	0.25	1		10/19/17 00:45	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 00:45	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/19/17 00:45	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/19/17 00:45	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/19/17 00:45	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/19/17 00:45	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/19/17 00:45	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/19/17 00:45	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/19/17 00:45	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/19/17 00:45	75-00-3	
Chloroform	**0.30J**	ug/L	1.0	0.14	1		10/19/17 00:45	67-66-3	B,C9
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/19/17 00:45	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/19/17 00:45	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/19/17 00:45	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/19/17 00:45	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 00:45	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/19/17 00:45	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 00:45	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 00:45	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-6 (74) **Lab ID: 92359173012** Collected: 10/11/17 13:20 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/19/17 00:45	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/19/17 00:45	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 00:45	75-71-8	
1,1-Dichloroethane	**1.0**	ug/L	1.0	0.32	1		10/19/17 00:45	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/19/17 00:45	107-06-2	
1,1-Dichloroethene	**3.8**	ug/L	1.0	0.56	1		10/19/17 00:45	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/L	1.0	0.19	1		10/19/17 00:45	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/19/17 00:45	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/19/17 00:45	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/19/17 00:45	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/19/17 00:45	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/19/17 00:45	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/19/17 00:45	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/19/17 00:45	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/19/17 00:45	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 00:45	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/19/17 00:45	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/19/17 00:45	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/19/17 00:45	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/19/17 00:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/19/17 00:45	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/19/17 00:45	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/19/17 00:45	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/19/17 00:45	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/19/17 00:45	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/19/17 00:45	79-34-5	
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/19/17 00:45	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/19/17 00:45	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/19/17 00:45	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/19/17 00:45	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/19/17 00:45	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/19/17 00:45	79-00-5	
Trichloroethene	**2.0**	ug/L	1.0	0.47	1		10/19/17 00:45	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/19/17 00:45	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/19/17 00:45	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/19/17 00:45	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/19/17 00:45	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/19/17 00:45	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/19/17 00:45	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/19/17 00:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/19/17 00:45	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/19/17 00:45	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		10/19/17 00:45	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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-Dup-01 **Lab ID: 92359173013** Collected: 10/10/17 00:00 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/19/17 01:02	67-64-1	
Benzene	**113**	ug/L	1.0	0.25	1		10/19/17 01:02	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 01:02	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/19/17 01:02	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/19/17 01:02	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/19/17 01:02	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/19/17 01:02	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/19/17 01:02	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/19/17 01:02	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/19/17 01:02	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/19/17 01:02	75-00-3	
Chloroform	**0.49J**	ug/L	1.0	0.14	1		10/19/17 01:02	67-66-3	B,C9
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/19/17 01:02	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/19/17 01:02	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/19/17 01:02	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/19/17 01:02	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 01:02	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/19/17 01:02	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 01:02	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 01:02	95-50-1	
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/19/17 01:02	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/19/17 01:02	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 01:02	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/19/17 01:02	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/19/17 01:02	107-06-2	
1,1-Dichloroethene	**0.81J**	ug/L	1.0	0.56	1		10/19/17 01:02	75-35-4	
cis-1,2-Dichloroethene	**7.1**	ug/L	1.0	0.19	1		10/19/17 01:02	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/19/17 01:02	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/19/17 01:02	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/19/17 01:02	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/19/17 01:02	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/19/17 01:02	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/19/17 01:02	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/19/17 01:02	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/19/17 01:02	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 01:02	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/19/17 01:02	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/19/17 01:02	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/19/17 01:02	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/19/17 01:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/19/17 01:02	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/19/17 01:02	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/19/17 01:02	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/19/17 01:02	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/19/17 01:02	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/19/17 01:02	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-Dup-01 **Lab ID: 92359173013** Collected: 10/10/17 00:00 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**1.4**	ug/L	1.0	0.46	1		10/19/17 01:02	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/19/17 01:02	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/19/17 01:02	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/19/17 01:02	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/19/17 01:02	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/19/17 01:02	79-00-5	
Trichloroethene	**199**	ug/L	1.0	0.47	1		10/19/17 01:02	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/19/17 01:02	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/19/17 01:02	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/19/17 01:02	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/19/17 01:02	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/19/17 01:02	1330-20-7	
m&p-Xylene	**0.68J**	ug/L	2.0	0.66	1		10/19/17 01:02	179601-23-1	
o-Xylene	**0.46J**	ug/L	1.0	0.23	1		10/19/17 01:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/19/17 01:02	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/19/17 01:02	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/19/17 01:02	2037-26-5	

Sample: GW-Dup-02 **Lab ID: 92359173014** Collected: 10/11/17 00:00 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**45.7**	ug/L	25.0	10.0	1		10/19/17 01:19	67-64-1	
Benzene	**0.77J**	ug/L	1.0	0.25	1		10/19/17 01:19	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 01:19	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/19/17 01:19	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/19/17 01:19	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/19/17 01:19	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/19/17 01:19	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/19/17 01:19	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/19/17 01:19	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/19/17 01:19	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/19/17 01:19	75-00-3	
Chloroform	**0.26J**	ug/L	1.0	0.14	1		10/19/17 01:19	67-66-3	B,C9
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/19/17 01:19	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/19/17 01:19	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/19/17 01:19	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/19/17 01:19	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 01:19	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/19/17 01:19	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 01:19	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 01:19	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: GW-Dup-02 **Lab ID: 92359173014** Collected: 10/11/17 00:00 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/19/17 01:19	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/19/17 01:19	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/19/17 01:19	75-71-8	
1,1-Dichloroethane	**0.69J**	ug/L	1.0	0.32	1		10/19/17 01:19	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/19/17 01:19	107-06-2	
1,1-Dichloroethene	**1.5**	ug/L	1.0	0.56	1		10/19/17 01:19	75-35-4	
cis-1,2-Dichloroethene	**0.31J**	ug/L	1.0	0.19	1		10/19/17 01:19	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/19/17 01:19	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/19/17 01:19	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/19/17 01:19	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/19/17 01:19	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/19/17 01:19	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/19/17 01:19	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/19/17 01:19	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/19/17 01:19	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/19/17 01:19	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/19/17 01:19	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/19/17 01:19	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/19/17 01:19	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/19/17 01:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/19/17 01:19	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/19/17 01:19	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/19/17 01:19	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/19/17 01:19	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/19/17 01:19	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/19/17 01:19	79-34-5	
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/19/17 01:19	127-18-4	
Toluene	**0.49J**	ug/L	1.0	0.26	1		10/19/17 01:19	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/19/17 01:19	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/19/17 01:19	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/19/17 01:19	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/19/17 01:19	79-00-5	
Trichloroethene	**4.2**	ug/L	1.0	0.47	1		10/19/17 01:19	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/19/17 01:19	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/19/17 01:19	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/19/17 01:19	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/19/17 01:19	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/19/17 01:19	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/19/17 01:19	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/19/17 01:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/19/17 01:19	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/19/17 01:19	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		10/19/17 01:19	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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: Trip Blank **Lab ID: 92359173015** Collected: 10/11/17 00:00 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**<10.0**	ug/L	25.0	10.0	1		10/18/17 04:00	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/18/17 04:00	71-43-2	
Bromobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 04:00	108-86-1	
Bromochloromethane	**<0.17**	ug/L	1.0	0.17	1		10/18/17 04:00	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		10/18/17 04:00	75-27-4	
Bromoform	**<0.26**	ug/L	1.0	0.26	1		10/18/17 04:00	75-25-2	
Bromomethane	**<0.29**	ug/L	2.0	0.29	1		10/18/17 04:00	74-83-9	
2-Butanone (MEK)	**<0.96**	ug/L	5.0	0.96	1		10/18/17 04:00	78-93-3	
Carbon tetrachloride	**<0.25**	ug/L	1.0	0.25	1		10/18/17 04:00	56-23-5	
Chlorobenzene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 04:00	108-90-7	
Chloroethane	**<0.54**	ug/L	1.0	0.54	1		10/18/17 04:00	75-00-3	
Chloroform	**<0.14**	ug/L	1.0	0.14	1		10/18/17 04:00	67-66-3	
Chloromethane	**<0.11**	ug/L	1.0	0.11	1		10/18/17 04:00	74-87-3	
2-Chlorotoluene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 04:00	95-49-8	
4-Chlorotoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 04:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	2.0	1		10/18/17 04:00	96-12-8	
Dibromochloromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 04:00	124-48-1	
1,2-Dibromoethane (EDB)	**<0.27**	ug/L	1.0	0.27	1		10/18/17 04:00	106-93-4	
Dibromomethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 04:00	74-95-3	
1,2-Dichlorobenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 04:00	95-50-1	
1,3-Dichlorobenzene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 04:00	541-73-1	
1,4-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 04:00	106-46-7	
Dichlorodifluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/18/17 04:00	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/L	1.0	0.32	1		10/18/17 04:00	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/18/17 04:00	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/L	1.0	0.56	1		10/18/17 04:00	75-35-4	
cis-1,2-Dichloroethene	**<0.19**	ug/L	1.0	0.19	1		10/18/17 04:00	156-59-2	
trans-1,2-Dichloroethene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 04:00	156-60-5	
1,2-Dichloropropane	**<0.27**	ug/L	1.0	0.27	1		10/18/17 04:00	78-87-5	
1,3-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/18/17 04:00	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	1.0	0.13	1		10/18/17 04:00	594-20-7	
1,1-Dichloropropene	**<0.49**	ug/L	1.0	0.49	1		10/18/17 04:00	563-58-6	
cis-1,3-Dichloropropene	**<0.13**	ug/L	1.0	0.13	1		10/18/17 04:00	10061-01-5	
trans-1,3-Dichloropropene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 04:00	10061-02-6	
Diisopropyl ether	**<0.12**	ug/L	1.0	0.12	1		10/18/17 04:00	108-20-3	
Ethylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/18/17 04:00	100-41-4	
Hexachloro-1,3-butadiene	**<0.71**	ug/L	1.0	0.71	1		10/18/17 04:00	87-68-3	
2-Hexanone	**<0.46**	ug/L	5.0	0.46	1		10/18/17 04:00	591-78-6	
p-Isopropyltoluene	**<0.31**	ug/L	1.0	0.31	1		10/18/17 04:00	99-87-6	
Methylene Chloride	**<0.97**	ug/L	2.0	0.97	1		10/18/17 04:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.33**	ug/L	5.0	0.33	1		10/18/17 04:00	108-10-1	
Methyl-tert-butyl ether	**<0.21**	ug/L	1.0	0.21	1		10/18/17 04:00	1634-04-4	
Naphthalene	**<0.24**	ug/L	1.0	0.24	1		10/18/17 04:00	91-20-3	
Styrene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 04:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	1.0	0.33	1		10/18/17 04:00	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.40**	ug/L	1.0	0.40	1		10/18/17 04:00	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Sample: Trip Blank **Lab ID: 92359173015** Collected: 10/11/17 00:00 Received: 10/13/17 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Tetrachloroethene	**<0.46**	ug/L	1.0	0.46	1		10/18/17 04:00	127-18-4	
Toluene	**<0.26**	ug/L	1.0	0.26	1		10/18/17 04:00	108-88-3	
1,2,3-Trichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		10/18/17 04:00	87-61-6	
1,2,4-Trichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		10/18/17 04:00	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/L	1.0	0.48	1		10/18/17 04:00	71-55-6	
1,1,2-Trichloroethane	**<0.29**	ug/L	1.0	0.29	1		10/18/17 04:00	79-00-5	
Trichloroethene	**<0.47**	ug/L	1.0	0.47	1		10/18/17 04:00	79-01-6	
Trichlorofluoromethane	**<0.20**	ug/L	1.0	0.20	1		10/18/17 04:00	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	1.0	0.41	1		10/18/17 04:00	96-18-4	
Vinyl acetate	**<0.35**	ug/L	2.0	0.35	1		10/18/17 04:00	108-05-4	
Vinyl chloride	**<0.62**	ug/L	1.0	0.62	1		10/18/17 04:00	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1.0	1		10/18/17 04:00	1330-20-7	
m&p-Xylene	**<0.66**	ug/L	2.0	0.66	1		10/18/17 04:00	179601-23-1	
o-Xylene	**<0.23**	ug/L	1.0	0.23	1		10/18/17 04:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/18/17 04:00	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		10/18/17 04:00	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/18/17 04:00	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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

QC Batch: 382809 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92359173005, 92359173006, 92359173007, 92359173008, 92359173015

METHOD BLANK: 2121472 Matrix: Water
Associated Lab Samples: 92359173005, 92359173006, 92359173007, 92359173008, 92359173015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.33	1.0	0.33	10/18/17 03:08	
1,1,1-Trichloroethane	ug/L	<0.48	1.0	0.48	10/18/17 03:08	
1,1,2,2-Tetrachloroethane	ug/L	<0.40	1.0	0.40	10/18/17 03:08	
1,1,2-Trichloroethane	ug/L	<0.29	1.0	0.29	10/18/17 03:08	
1,1-Dichloroethane	ug/L	<0.32	1.0	0.32	10/18/17 03:08	
1,1-Dichloroethene	ug/L	<0.56	1.0	0.56	10/18/17 03:08	
1,1-Dichloropropene	ug/L	<0.49	1.0	0.49	10/18/17 03:08	
1,2,3-Trichlorobenzene	ug/L	<0.33	1.0	0.33	10/18/17 03:08	
1,2,3-Trichloropropane	ug/L	<0.41	1.0	0.41	10/18/17 03:08	
1,2,4-Trichlorobenzene	ug/L	<0.35	1.0	0.35	10/18/17 03:08	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	2.0	10/18/17 03:08	
1,2-Dibromoethane (EDB)	ug/L	<0.27	1.0	0.27	10/18/17 03:08	
1,2-Dichlorobenzene	ug/L	<0.30	1.0	0.30	10/18/17 03:08	
1,2-Dichloroethane	ug/L	<0.24	1.0	0.24	10/18/17 03:08	
1,2-Dichloropropane	ug/L	<0.27	1.0	0.27	10/18/17 03:08	
1,3-Dichlorobenzene	ug/L	<0.24	1.0	0.24	10/18/17 03:08	
1,3-Dichloropropane	ug/L	<0.28	1.0	0.28	10/18/17 03:08	
1,4-Dichlorobenzene	ug/L	<0.33	1.0	0.33	10/18/17 03:08	
2,2-Dichloropropane	ug/L	<0.13	1.0	0.13	10/18/17 03:08	
2-Butanone (MEK)	ug/L	<0.96	5.0	0.96	10/18/17 03:08	
2-Chlorotoluene	ug/L	<0.35	1.0	0.35	10/18/17 03:08	
2-Hexanone	ug/L	<0.46	5.0	0.46	10/18/17 03:08	
4-Chlorotoluene	ug/L	<0.31	1.0	0.31	10/18/17 03:08	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.33	5.0	0.33	10/18/17 03:08	
Acetone	ug/L	<10.0	25.0	10.0	10/18/17 03:08	
Benzene	ug/L	<0.25	1.0	0.25	10/18/17 03:08	
Bromobenzene	ug/L	<0.30	1.0	0.30	10/18/17 03:08	
Bromochloromethane	ug/L	<0.17	1.0	0.17	10/18/17 03:08	
Bromodichloromethane	ug/L	<0.18	1.0	0.18	10/18/17 03:08	
Bromoform	ug/L	<0.26	1.0	0.26	10/18/17 03:08	
Bromomethane	ug/L	<0.29	2.0	0.29	10/18/17 03:08	
Carbon tetrachloride	ug/L	<0.25	1.0	0.25	10/18/17 03:08	
Chlorobenzene	ug/L	<0.23	1.0	0.23	10/18/17 03:08	
Chloroethane	ug/L	<0.54	1.0	0.54	10/18/17 03:08	
Chloroform	ug/L	0.29J	1.0	0.14	10/18/17 03:08	
Chloromethane	ug/L	<0.11	1.0	0.11	10/18/17 03:08	
cis-1,2-Dichloroethene	ug/L	<0.19	1.0	0.19	10/18/17 03:08	
cis-1,3-Dichloropropene	ug/L	<0.13	1.0	0.13	10/18/17 03:08	
Dibromochloromethane	ug/L	<0.21	1.0	0.21	10/18/17 03:08	
Dibromomethane	ug/L	<0.21	1.0	0.21	10/18/17 03:08	
Dichlorodifluoromethane	ug/L	<0.21	1.0	0.21	10/18/17 03:08	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

METHOD BLANK: 2121472 Matrix: Water
Associated Lab Samples: 92359173005, 92359173006, 92359173007, 92359173008, 92359173015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<0.12	1.0	0.12	10/18/17 03:08	
Ethylbenzene	ug/L	<0.30	1.0	0.30	10/18/17 03:08	
Hexachloro-1,3-butadiene	ug/L	<0.71	1.0	0.71	10/18/17 03:08	
m&p-Xylene	ug/L	<0.66	2.0	0.66	10/18/17 03:08	
Methyl-tert-butyl ether	ug/L	<0.21	1.0	0.21	10/18/17 03:08	
Methylene Chloride	ug/L	<0.97	2.0	0.97	10/18/17 03:08	
Naphthalene	ug/L	<0.24	1.0	0.24	10/18/17 03:08	
o-Xylene	ug/L	<0.23	1.0	0.23	10/18/17 03:08	
p-Isopropyltoluene	ug/L	<0.31	1.0	0.31	10/18/17 03:08	
Styrene	ug/L	<0.26	1.0	0.26	10/18/17 03:08	
Tetrachloroethene	ug/L	<0.46	1.0	0.46	10/18/17 03:08	
Toluene	ug/L	<0.26	1.0	0.26	10/18/17 03:08	
trans-1,2-Dichloroethene	ug/L	<0.49	1.0	0.49	10/18/17 03:08	
trans-1,3-Dichloropropene	ug/L	<0.26	1.0	0.26	10/18/17 03:08	
Trichloroethene	ug/L	<0.47	1.0	0.47	10/18/17 03:08	
Trichlorofluoromethane	ug/L	<0.20	1.0	0.20	10/18/17 03:08	
Vinyl acetate	ug/L	<0.35	2.0	0.35	10/18/17 03:08	
Vinyl chloride	ug/L	<0.62	1.0	0.62	10/18/17 03:08	
Xylene (Total)	ug/L	<1.0	1.0	1.0	10/18/17 03:08	
1,2-Dichloroethane-d4 (S)	%	96	70-130		10/18/17 03:08	
4-Bromofluorobenzene (S)	%	95	70-130		10/18/17 03:08	
Toluene-d8 (S)	%	108	70-130		10/18/17 03:08	

LABORATORY CONTROL SAMPLE: 2121473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	43.6	87	70-130	
1,1,1-Trichloroethane	ug/L	50	51.7	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.6	91	70-130	
1,1,2-Trichloroethane	ug/L	50	45.4	91	70-130	
1,1-Dichloroethane	ug/L	50	49.6	99	70-130	
1,1-Dichloroethene	ug/L	50	47.7	95	70-132	
1,1-Dichloropropene	ug/L	50	51.8	104	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.9	94	70-135	
1,2,3-Trichloropropane	ug/L	50	46.3	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.4	91	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	47.9	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.6	97	70-130	
1,2-Dichlorobenzene	ug/L	50	42.2	84	70-130	
1,2-Dichloroethane	ug/L	50	46.4	93	70-130	
1,2-Dichloropropane	ug/L	50	49.4	99	70-130	
1,3-Dichlorobenzene	ug/L	50	40.4	81	70-130	
1,3-Dichloropropane	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	39.9	80	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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

LABORATORY CONTROL SAMPLE: 2121473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	47.5	95	58-145	
2-Butanone (MEK)	ug/L	100	96.7	97	70-145	
2-Chlorotoluene	ug/L	50	40.4	81	70-130	
2-Hexanone	ug/L	100	91.6	92	70-144	
4-Chlorotoluene	ug/L	50	39.8	80	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.0	88	70-140	
Acetone	ug/L	100	97.4	97	50-175	
Benzene	ug/L	50	48.5	97	70-130	
Bromobenzene	ug/L	50	45.5	91	70-130	
Bromochloromethane	ug/L	50	50.9	102	70-130	
Bromodichloromethane	ug/L	50	46.0	92	70-130	
Bromoform	ug/L	50	45.3	91	70-130	
Bromomethane	ug/L	50	46.4	93	54-130	
Carbon tetrachloride	ug/L	50	45.6	91	70-132	
Chlorobenzene	ug/L	50	43.8	88	70-130	
Chloroethane	ug/L	50	46.4	93	64-134	
Chloroform	ug/L	50	46.7	93	70-130	
Chloromethane	ug/L	50	37.2	74	64-130	
cis-1,2-Dichloroethene	ug/L	50	51.7	103	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.2	96	70-130	
Dibromochloromethane	ug/L	50	47.2	94	70-130	
Dibromomethane	ug/L	50	45.2	90	70-131	
Dichlorodifluoromethane	ug/L	50	30.4	61	56-130	
Diisopropyl ether	ug/L	50	50.0	100	70-130	
Ethylbenzene	ug/L	50	42.8	86	70-130	
Hexachloro-1,3-butadiene	ug/L	50	44.2	88	70-130	
m&p-Xylene	ug/L	100	83.4	83	70-130	
Methyl-tert-butyl ether	ug/L	50	49.5	99	70-130	
Methylene Chloride	ug/L	50	51.5	103	63-130	
Naphthalene	ug/L	50	47.8	96	70-138	
o-Xylene	ug/L	50	42.6	85	70-130	
p-Isopropyltoluene	ug/L	50	43.0	86	70-130	
Styrene	ug/L	50	42.2	84	70-130	
Tetrachloroethene	ug/L	50	42.7	85	70-130	
Toluene	ug/L	50	44.9	90	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.3	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	45.9	92	70-132	
Trichloroethene	ug/L	50	51.0	102	70-130	
Trichlorofluoromethane	ug/L	50	45.1	90	62-133	
Vinyl acetate	ug/L	100	90.5	90	66-157	
Vinyl chloride	ug/L	50	47.9	96	50-150	
Xylene (Total)	ug/L	150	126	84	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			91	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

MATRIX SPIKE SAMPLE: 2121694

Parameter	Units	92359030001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	17.1	86	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	21.3	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	18.5	92	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	ND	20	21.1	106	70-130	
1,1-Dichloroethene	ug/L	ND	20	20.8	104	70-166	
1,1-Dichloropropene	ug/L	ND	20	20.7	103	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	18.9	94	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	18.9	95	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.6	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.4	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.5	98	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	17.7	89	70-130	
1,2-Dichloroethane	ug/L	ND	20	18.8	94	70-130	
1,2-Dichloropropane	ug/L	ND	20	20.9	105	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	17.3	86	70-130	
1,3-Dichloropropane	ug/L	ND	20	19.0	95	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	16.7	84	70-130	
2,2-Dichloropropane	ug/L	ND	20	20.9	104	70-130	
2-Butanone (MEK)	ug/L	ND	40	39.8	99	70-130	
2-Chlorotoluene	ug/L	ND	20	16.9	85	70-130	
2-Hexanone	ug/L	ND	40	39.3	98	70-130	
4-Chlorotoluene	ug/L	ND	20	17.3	86	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	38.4	96	70-130	
Acetone	ug/L	ND	40	42.7	107	70-130	
Benzene	ug/L	ND	20	20.9	104	70-148	
Bromobenzene	ug/L	ND	20	19.3	96	70-130	
Bromochloromethane	ug/L	ND	20	19.8	99	70-130	
Bromodichloromethane	ug/L	ND	20	20.2	101	70-130	
Bromoform	ug/L	ND	20	17.4	87	70-130	
Bromomethane	ug/L	ND	20	15.8	79	70-130	
Carbon tetrachloride	ug/L	ND	20	20.3	101	70-130	
Chlorobenzene	ug/L	ND	20	18.6	93	70-146	
Chloroethane	ug/L	ND	20	18.8	94	70-130	
Chloroform	ug/L	ND	20	19.9	99	70-130	
Chloromethane	ug/L	ND	20	16.5	83	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	21.8	109	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.9	99	70-130	
Dibromochloromethane	ug/L	ND	20	18.0	90	70-130	
Dibromomethane	ug/L	ND	20	19.9	100	70-130	
Dichlorodifluoromethane	ug/L	ND	20	12.6	63	70-130	M1
Diisopropyl ether	ug/L	ND	20	19.7	98	70-130	
Ethylbenzene	ug/L	ND	20	18.6	93	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	18.1	90	70-130	
m&p-Xylene	ug/L	ND	40	35.9	90	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.1	95	70-130	
Methylene Chloride	ug/L	ND	20	19.6	98	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

MATRIX SPIKE SAMPLE: 2121694

Parameter	Units	92359030001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	18.6	93	70-130	
o-Xylene	ug/L	ND	20	18.1	91	70-130	
p-Isopropyltoluene	ug/L	ND	20	18.1	90	70-130	
Styrene	ug/L	ND	20	17.6	88	70-130	
Tetrachloroethene	ug/L	ND	20	17.2	86	70-130	
Toluene	ug/L	ND	20	20.4	102	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	20.8	104	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	18.9	95	70-130	
Trichloroethene	ug/L	ND	20	21.2	106	69-151	
Trichlorofluoromethane	ug/L	ND	20	19.8	99	70-130	
Vinyl acetate	ug/L	ND	40	36.8	92	70-130	
Vinyl chloride	ug/L	ND	20	20.3	102	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				95	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 2121695

Parameter	Units	92359030002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	<0.33		30	
1,1,1-Trichloroethane	ug/L	ND	<0.48		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	<0.40		30	
1,1,2-Trichloroethane	ug/L	ND	<0.29		30	
1,1-Dichloroethane	ug/L	ND	<0.32		30	
1,1-Dichloroethene	ug/L	ND	<0.56		30	
1,1-Dichloropropene	ug/L	ND	<0.49		30	
1,2,3-Trichlorobenzene	ug/L	ND	<0.33		30	
1,2,3-Trichloropropane	ug/L	ND	<0.41		30	
1,2,4-Trichlorobenzene	ug/L	ND	<0.35		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	<2.0		30	
1,2-Dibromoethane (EDB)	ug/L	ND	<0.27		30	
1,2-Dichlorobenzene	ug/L	ND	<0.30		30	
1,2-Dichloroethane	ug/L	ND	<0.24		30	
1,2-Dichloropropane	ug/L	ND	<0.27		30	
1,3-Dichlorobenzene	ug/L	ND	<0.24		30	
1,3-Dichloropropane	ug/L	ND	<0.28		30	
1,4-Dichlorobenzene	ug/L	ND	<0.33		30	
2,2-Dichloropropane	ug/L	ND	<0.13		30	
2-Butanone (MEK)	ug/L	ND	<0.96		30	
2-Chlorotoluene	ug/L	ND	<0.35		30	
2-Hexanone	ug/L	ND	<0.46		30	
4-Chlorotoluene	ug/L	ND	<0.31		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	<0.33		30	
Acetone	ug/L	ND	<10.0		30	
Benzene	ug/L	ND	1.6		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

SAMPLE DUPLICATE: 2121695

Parameter	Units	92359030002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	<0.30		30	
Bromochloromethane	ug/L	ND	<0.17		30	
Bromodichloromethane	ug/L	ND	<0.18		30	
Bromoform	ug/L	ND	<0.26		30	
Bromomethane	ug/L	ND	<0.29		30	
Carbon tetrachloride	ug/L	ND	<0.25		30	
Chlorobenzene	ug/L	ND	<0.23		30	
Chloroethane	ug/L	ND	<0.54		30	
Chloroform	ug/L	ND	<0.14		30	
Chloromethane	ug/L	ND	<0.11		30	
cis-1,2-Dichloroethene	ug/L	ND	<0.19		30	
cis-1,3-Dichloropropene	ug/L	ND	<0.13		30	
Dibromochloromethane	ug/L	ND	<0.21		30	
Dibromomethane	ug/L	ND	<0.21		30	
Dichlorodifluoromethane	ug/L	ND	<0.21		30	
Diisopropyl ether	ug/L	ND	<0.12		30	
Ethylbenzene	ug/L	1.6	2.8	57	30	D6
Hexachloro-1,3-butadiene	ug/L	ND	<0.71		30	
m&p-Xylene	ug/L	ND	6.3		30	
Methyl-tert-butyl ether	ug/L	ND	<0.21		30	
Methylene Chloride	ug/L	ND	<0.97		30	
Naphthalene	ug/L	ND	0.49J		30	
o-Xylene	ug/L	7.4	9.3	23	30	
p-Isopropyltoluene	ug/L	ND	<0.31		30	
Styrene	ug/L	ND	<0.26		30	
Tetrachloroethene	ug/L	ND	<0.46		30	
Toluene	ug/L	9.0	18.4	68	30	D6
trans-1,2-Dichloroethene	ug/L	ND	<0.49		30	
trans-1,3-Dichloropropene	ug/L	ND	<0.26		30	
Trichloroethene	ug/L	ND	<0.47		30	
Trichlorofluoromethane	ug/L	ND	<0.20		30	
Vinyl acetate	ug/L	ND	<0.35		30	
Vinyl chloride	ug/L	ND	<0.62		30	
Xylene (Total)	ug/L	7.4	15.6	71	30	
1,2-Dichloroethane-d4 (S)	%	91	96	5		
4-Bromofluorobenzene (S)	%	95	98	2		
Toluene-d8 (S)	%	108	106	1		

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

QC Batch: 382931 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92359173001, 92359173002, 92359173003, 92359173004, 92359173009

METHOD BLANK: 2122183 Matrix: Water
Associated Lab Samples: 92359173001, 92359173002, 92359173003, 92359173004, 92359173009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.33	1.0	0.33	10/18/17 12:42	
1,1,1-Trichloroethane	ug/L	<0.48	1.0	0.48	10/18/17 12:42	
1,1,2,2-Tetrachloroethane	ug/L	<0.40	1.0	0.40	10/18/17 12:42	
1,1,2-Trichloroethane	ug/L	<0.29	1.0	0.29	10/18/17 12:42	
1,1-Dichloroethane	ug/L	<0.32	1.0	0.32	10/18/17 12:42	
1,1-Dichloroethene	ug/L	<0.56	1.0	0.56	10/18/17 12:42	
1,1-Dichloropropene	ug/L	<0.49	1.0	0.49	10/18/17 12:42	
1,2,3-Trichlorobenzene	ug/L	<0.33	1.0	0.33	10/18/17 12:42	
1,2,3-Trichloropropane	ug/L	<0.41	1.0	0.41	10/18/17 12:42	
1,2,4-Trichlorobenzene	ug/L	<0.35	1.0	0.35	10/18/17 12:42	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	2.0	10/18/17 12:42	
1,2-Dibromoethane (EDB)	ug/L	<0.27	1.0	0.27	10/18/17 12:42	
1,2-Dichlorobenzene	ug/L	<0.30	1.0	0.30	10/18/17 12:42	
1,2-Dichloroethane	ug/L	<0.24	1.0	0.24	10/18/17 12:42	
1,2-Dichloropropane	ug/L	<0.27	1.0	0.27	10/18/17 12:42	
1,3-Dichlorobenzene	ug/L	<0.24	1.0	0.24	10/18/17 12:42	
1,3-Dichloropropane	ug/L	<0.28	1.0	0.28	10/18/17 12:42	
1,4-Dichlorobenzene	ug/L	<0.33	1.0	0.33	10/18/17 12:42	
2,2-Dichloropropane	ug/L	<0.13	1.0	0.13	10/18/17 12:42	
2-Butanone (MEK)	ug/L	<0.96	5.0	0.96	10/18/17 12:42	
2-Chlorotoluene	ug/L	<0.35	1.0	0.35	10/18/17 12:42	
2-Hexanone	ug/L	<0.46	5.0	0.46	10/18/17 12:42	
4-Chlorotoluene	ug/L	<0.31	1.0	0.31	10/18/17 12:42	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.33	5.0	0.33	10/18/17 12:42	
Acetone	ug/L	<10.0	25.0	10.0	10/18/17 12:42	
Benzene	ug/L	<0.25	1.0	0.25	10/18/17 12:42	
Bromobenzene	ug/L	<0.30	1.0	0.30	10/18/17 12:42	
Bromochloromethane	ug/L	<0.17	1.0	0.17	10/18/17 12:42	
Bromodichloromethane	ug/L	<0.18	1.0	0.18	10/18/17 12:42	
Bromoform	ug/L	<0.26	1.0	0.26	10/18/17 12:42	
Bromomethane	ug/L	<0.29	2.0	0.29	10/18/17 12:42	
Carbon tetrachloride	ug/L	<0.25	1.0	0.25	10/18/17 12:42	
Chlorobenzene	ug/L	<0.23	1.0	0.23	10/18/17 12:42	
Chloroethane	ug/L	<0.54	1.0	0.54	10/18/17 12:42	
Chloroform	ug/L	0.38J	1.0	0.14	10/18/17 12:42	C9
Chloromethane	ug/L	<0.11	1.0	0.11	10/18/17 12:42	
cis-1,2-Dichloroethene	ug/L	<0.19	1.0	0.19	10/18/17 12:42	
cis-1,3-Dichloropropene	ug/L	<0.13	1.0	0.13	10/18/17 12:42	
Dibromochloromethane	ug/L	<0.21	1.0	0.21	10/18/17 12:42	
Dibromomethane	ug/L	<0.21	1.0	0.21	10/18/17 12:42	
Dichlorodifluoromethane	ug/L	<0.21	1.0	0.21	10/18/17 12:42	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

METHOD BLANK: 2122183 Matrix: Water
Associated Lab Samples: 92359173001, 92359173002, 92359173003, 92359173004, 92359173009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<0.12	1.0	0.12	10/18/17 12:42	
Ethylbenzene	ug/L	<0.30	1.0	0.30	10/18/17 12:42	
Hexachloro-1,3-butadiene	ug/L	<0.71	1.0	0.71	10/18/17 12:42	
m&p-Xylene	ug/L	<0.66	2.0	0.66	10/18/17 12:42	
Methyl-tert-butyl ether	ug/L	<0.21	1.0	0.21	10/18/17 12:42	
Methylene Chloride	ug/L	<0.97	2.0	0.97	10/18/17 12:42	
Naphthalene	ug/L	<0.24	1.0	0.24	10/18/17 12:42	
o-Xylene	ug/L	<0.23	1.0	0.23	10/18/17 12:42	
p-Isopropyltoluene	ug/L	<0.31	1.0	0.31	10/18/17 12:42	
Styrene	ug/L	<0.26	1.0	0.26	10/18/17 12:42	
Tetrachloroethene	ug/L	<0.46	1.0	0.46	10/18/17 12:42	
Toluene	ug/L	<0.26	1.0	0.26	10/18/17 12:42	
trans-1,2-Dichloroethene	ug/L	<0.49	1.0	0.49	10/18/17 12:42	
trans-1,3-Dichloropropene	ug/L	<0.26	1.0	0.26	10/18/17 12:42	
Trichloroethene	ug/L	<0.47	1.0	0.47	10/18/17 12:42	
Trichlorofluoromethane	ug/L	<0.20	1.0	0.20	10/18/17 12:42	
Vinyl acetate	ug/L	<0.35	2.0	0.35	10/18/17 12:42	
Vinyl chloride	ug/L	<0.62	1.0	0.62	10/18/17 12:42	
Xylene (Total)	ug/L	<1.0	1.0	1.0	10/18/17 12:42	
1,2-Dichloroethane-d4 (S)	%	96	70-130		10/18/17 12:42	
4-Bromofluorobenzene (S)	%	104	70-130		10/18/17 12:42	
Toluene-d8 (S)	%	100	70-130		10/18/17 12:42	

LABORATORY CONTROL SAMPLE: 2122184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.5	93	70-130	
1,1,1-Trichloroethane	ug/L	50	50.6	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	42.1	84	70-130	
1,1,2-Trichloroethane	ug/L	50	50.1	100	70-130	
1,1-Dichloroethane	ug/L	50	50.6	101	70-130	
1,1-Dichloroethene	ug/L	50	53.8	108	70-132	
1,1-Dichloropropene	ug/L	50	50.6	101	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.8	94	70-135	
1,2,3-Trichloropropane	ug/L	50	44.7	89	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.1	94	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	38.7	77	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	46.7	93	70-130	
1,2-Dichlorobenzene	ug/L	50	44.5	89	70-130	
1,2-Dichloroethane	ug/L	50	49.1	98	70-130	
1,2-Dichloropropane	ug/L	50	50.5	101	70-130	
1,3-Dichlorobenzene	ug/L	50	44.3	89	70-130	
1,3-Dichloropropane	ug/L	50	47.0	94	70-130	
1,4-Dichlorobenzene	ug/L	50	44.5	89	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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

LABORATORY CONTROL SAMPLE: 2122184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	48.8	98	58-145	
2-Butanone (MEK)	ug/L	100	83.5	84	70-145	
2-Chlorotoluene	ug/L	50	44.5	89	70-130	
2-Hexanone	ug/L	100	79.8	80	70-144	
4-Chlorotoluene	ug/L	50	44.8	90	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.9	93	70-140	
Acetone	ug/L	100	85.8	86	50-175	
Benzene	ug/L	50	48.8	98	70-130	
Bromobenzene	ug/L	50	43.3	87	70-130	
Bromochloromethane	ug/L	50	48.0	96	70-130	
Bromodichloromethane	ug/L	50	49.5	99	70-130	
Bromoform	ug/L	50	44.0	88	70-130	
Bromomethane	ug/L	50	52.0	104	54-130	
Carbon tetrachloride	ug/L	50	50.5	101	70-132	
Chlorobenzene	ug/L	50	46.1	92	70-130	
Chloroethane	ug/L	50	50.1	100	64-134	
Chloroform	ug/L	50	48.7	97	70-130	
Chloromethane	ug/L	50	48.2	96	64-130	
cis-1,2-Dichloroethene	ug/L	50	50.4	101	70-131	
cis-1,3-Dichloropropene	ug/L	50	50.4	101	70-130	
Dibromochloromethane	ug/L	50	46.3	93	70-130	
Dibromomethane	ug/L	50	50.1	100	70-131	
Dichlorodifluoromethane	ug/L	50	43.3	87	56-130	
Diisopropyl ether	ug/L	50	53.2	106	70-130	
Ethylbenzene	ug/L	50	46.6	93	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.8	96	70-130	
m&p-Xylene	ug/L	100	93.3	93	70-130	
Methyl-tert-butyl ether	ug/L	50	48.6	97	70-130	
Methylene Chloride	ug/L	50	48.0	96	63-130	
Naphthalene	ug/L	50	44.5	89	70-138	
o-Xylene	ug/L	50	46.2	92	70-130	
p-Isopropyltoluene	ug/L	50	46.2	92	70-130	
Styrene	ug/L	50	46.8	94	70-130	
Tetrachloroethene	ug/L	50	47.1	94	70-130	
Toluene	ug/L	50	50.0	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.2	104	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	70-132	
Trichloroethene	ug/L	50	51.6	103	70-130	
Trichlorofluoromethane	ug/L	50	46.2	92	62-133	
Vinyl acetate	ug/L	100	97.5	97	66-157	
Vinyl chloride	ug/L	50	53.5	107	50-150	
Xylene (Total)	ug/L	150	139	93	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

MATRIX SPIKE SAMPLE: 2122191

Parameter	Units	92359278003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.1	96	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	20.5	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.7	89	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.6	98	70-130	
1,1-Dichloroethane	ug/L	ND	20	21.3	106	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.7	118	70-166	
1,1-Dichloropropene	ug/L	ND	20	22.0	110	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	17.1	86	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	18.3	92	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	17.3	87	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	15.2	76	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.1	95	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	17.5	87	70-130	
1,2-Dichloroethane	ug/L	ND	20	21.0	105	70-130	
1,2-Dichloropropane	ug/L	ND	20	20.4	102	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	18.0	90	70-130	
1,3-Dichloropropane	ug/L	ND	20	18.8	94	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	17.9	90	70-130	
2,2-Dichloropropane	ug/L	ND	20	19.2	96	70-130	
2-Butanone (MEK)	ug/L	ND	40	38.6	97	70-130	
2-Chlorotoluene	ug/L	ND	20	18.4	92	70-130	
2-Hexanone	ug/L	ND	40	32.6	82	70-130	
4-Chlorotoluene	ug/L	ND	20	18.1	90	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	37.2	93	70-130	
Acetone	ug/L	ND	40	36.4	91	70-130	
Benzene	ug/L	ND	20	20.8	104	70-148	
Bromobenzene	ug/L	ND	20	17.7	89	70-130	
Bromochloromethane	ug/L	ND	20	21.8	109	70-130	
Bromodichloromethane	ug/L	ND	20	20.1	100	70-130	
Bromoform	ug/L	ND	20	17.1	85	70-130	
Bromomethane	ug/L	ND	20	25.4	127	70-130	
Carbon tetrachloride	ug/L	ND	20	22.4	112	70-130	
Chlorobenzene	ug/L	ND	20	19.2	96	70-146	
Chloroethane	ug/L	ND	20	22.7	114	70-130	
Chloroform	ug/L	ND	20	20.5	103	70-130	
Chloromethane	ug/L	ND	20	21.1	105	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	21.5	108	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.1	96	70-130	
Dibromochloromethane	ug/L	ND	20	18.3	92	70-130	
Dibromomethane	ug/L	ND	20	20.1	100	70-130	
Dichlorodifluoromethane	ug/L	ND	20	20.0	100	70-130	
Diisopropyl ether	ug/L	ND	20	21.1	105	70-130	
Ethylbenzene	ug/L	ND	20	19.4	97	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	18.9	94	70-130	
m&p-Xylene	ug/L	ND	40	39.5	99	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.3	96	70-130	
Methylene Chloride	ug/L	ND	20	14.8	74	70-130	

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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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

MATRIX SPIKE SAMPLE: 2122191

Parameter	Units	92359278003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	16.3	82	70-130	
o-Xylene	ug/L	ND	20	19.3	97	70-130	
p-Isopropyltoluene	ug/L	ND	20	18.4	92	70-130	
Styrene	ug/L	ND	20	18.9	95	70-130	
Tetrachloroethene	ug/L	ND	20	20.4	102	70-130	
Toluene	ug/L	ND	20	20.4	102	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	22.2	111	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	18.9	94	70-130	
Trichloroethene	ug/L	ND	20	21.2	106	69-151	
Trichlorofluoromethane	ug/L	ND	20	20.9	105	70-130	
Vinyl acetate	ug/L	ND	40	35.9	90	70-130	
Vinyl chloride	ug/L	ND	20	23.4	117	70-130	
1,2-Dichloroethane-d4 (S)	%				94	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2122192

Parameter	Units	92359278004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	<0.33		30	
1,1,1-Trichloroethane	ug/L	ND	<0.48		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	<0.40		30	
1,1,2-Trichloroethane	ug/L	ND	<0.29		30	
1,1-Dichloroethane	ug/L	ND	<0.32		30	
1,1-Dichloroethene	ug/L	ND	<0.56		30	
1,1-Dichloropropene	ug/L	ND	<0.49		30	
1,2,3-Trichlorobenzene	ug/L	ND	<0.33		30	
1,2,3-Trichloropropane	ug/L	ND	<0.41		30	
1,2,4-Trichlorobenzene	ug/L	ND	<0.35		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	<2.0		30	
1,2-Dibromoethane (EDB)	ug/L	ND	<0.27		30	
1,2-Dichlorobenzene	ug/L	ND	<0.30		30	
1,2-Dichloroethane	ug/L	ND	<0.24		30	
1,2-Dichloropropane	ug/L	ND	<0.27		30	
1,3-Dichlorobenzene	ug/L	ND	<0.24		30	
1,3-Dichloropropane	ug/L	ND	<0.28		30	
1,4-Dichlorobenzene	ug/L	ND	<0.33		30	
2,2-Dichloropropane	ug/L	ND	<0.13		30	
2-Butanone (MEK)	ug/L	ND	<0.96		30	
2-Chlorotoluene	ug/L	ND	<0.35		30	
2-Hexanone	ug/L	ND	<0.46		30	
4-Chlorotoluene	ug/L	ND	<0.31		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	<0.33		30	
Acetone	ug/L	ND	<10.0		30	
Benzene	ug/L	ND	<0.25		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

SAMPLE DUPLICATE: 2122192

Parameter	Units	92359278004 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	<0.30		30	
Bromochloromethane	ug/L	ND	<0.17		30	
Bromodichloromethane	ug/L	ND	<0.18		30	
Bromoform	ug/L	ND	<0.26		30	
Bromomethane	ug/L	ND	<0.29		30	
Carbon tetrachloride	ug/L	ND	<0.25		30	
Chlorobenzene	ug/L	ND	<0.23		30	
Chloroethane	ug/L	ND	<0.54		30	
Chloroform	ug/L	ND	<0.14		30	
Chloromethane	ug/L	ND	<0.11		30	
cis-1,2-Dichloroethene	ug/L	ND	<0.19		30	
cis-1,3-Dichloropropene	ug/L	ND	<0.13		30	
Dibromochloromethane	ug/L	ND	<0.21		30	
Dibromomethane	ug/L	ND	<0.21		30	
Dichlorodifluoromethane	ug/L	ND	<0.21		30	
Diisopropyl ether	ug/L	ND	<0.12		30	
Ethylbenzene	ug/L	ND	<0.30		30	
Hexachloro-1,3-butadiene	ug/L	ND	<0.71		30	
m&p-Xylene	ug/L	ND	<0.66		30	
Methyl-tert-butyl ether	ug/L	ND	<0.21		30	
Methylene Chloride	ug/L	ND	<0.97		30	
Naphthalene	ug/L	ND	<0.24		30	
o-Xylene	ug/L	ND	<0.23		30	
p-Isopropyltoluene	ug/L	ND	<0.31		30	
Styrene	ug/L	ND	<0.26		30	
Tetrachloroethene	ug/L	ND	<0.46		30	
Toluene	ug/L	ND	<0.26		30	
trans-1,2-Dichloroethene	ug/L	ND	<0.49		30	
trans-1,3-Dichloropropene	ug/L	ND	<0.26		30	
Trichloroethene	ug/L	ND	<0.47		30	
Trichlorofluoromethane	ug/L	ND	<0.20		30	
Vinyl acetate	ug/L	ND	<0.35		30	
Vinyl chloride	ug/L	ND	<0.62		30	
Xylene (Total)	ug/L	ND	<1.0		30	
1,2-Dichloroethane-d4 (S)	%	98	95	2		
4-Bromofluorobenzene (S)	%	103	102	1		
Toluene-d8 (S)	%	101	100	2		

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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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

QC Batch: 382969 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92359173010, 92359173011, 92359173012, 92359173013, 92359173014

METHOD BLANK: 2122473 Matrix: Water
Associated Lab Samples: 92359173010, 92359173011, 92359173012, 92359173013, 92359173014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.33	1.0	0.33	10/18/17 16:08	
1,1,1-Trichloroethane	ug/L	<0.48	1.0	0.48	10/18/17 16:08	
1,1,2,2-Tetrachloroethane	ug/L	<0.40	1.0	0.40	10/18/17 16:08	
1,1,2-Trichloroethane	ug/L	<0.29	1.0	0.29	10/18/17 16:08	
1,1-Dichloroethane	ug/L	<0.32	1.0	0.32	10/18/17 16:08	
1,1-Dichloroethene	ug/L	<0.56	1.0	0.56	10/18/17 16:08	
1,1-Dichloropropene	ug/L	<0.49	1.0	0.49	10/18/17 16:08	
1,2,3-Trichlorobenzene	ug/L	<0.33	1.0	0.33	10/18/17 16:08	
1,2,3-Trichloropropane	ug/L	<0.41	1.0	0.41	10/18/17 16:08	
1,2,4-Trichlorobenzene	ug/L	<0.35	1.0	0.35	10/18/17 16:08	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	2.0	10/18/17 16:08	
1,2-Dibromoethane (EDB)	ug/L	<0.27	1.0	0.27	10/18/17 16:08	
1,2-Dichlorobenzene	ug/L	<0.30	1.0	0.30	10/18/17 16:08	
1,2-Dichloroethane	ug/L	<0.24	1.0	0.24	10/18/17 16:08	
1,2-Dichloropropane	ug/L	<0.27	1.0	0.27	10/18/17 16:08	
1,3-Dichlorobenzene	ug/L	<0.24	1.0	0.24	10/18/17 16:08	
1,3-Dichloropropane	ug/L	<0.28	1.0	0.28	10/18/17 16:08	
1,4-Dichlorobenzene	ug/L	<0.33	1.0	0.33	10/18/17 16:08	
2,2-Dichloropropane	ug/L	<0.13	1.0	0.13	10/18/17 16:08	
2-Butanone (MEK)	ug/L	<0.96	5.0	0.96	10/18/17 16:08	
2-Chlorotoluene	ug/L	<0.35	1.0	0.35	10/18/17 16:08	
2-Hexanone	ug/L	<0.46	5.0	0.46	10/18/17 16:08	
4-Chlorotoluene	ug/L	<0.31	1.0	0.31	10/18/17 16:08	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.33	5.0	0.33	10/18/17 16:08	
Acetone	ug/L	<10.0	25.0	10.0	10/18/17 16:08	
Benzene	ug/L	<0.25	1.0	0.25	10/18/17 16:08	
Bromobenzene	ug/L	<0.30	1.0	0.30	10/18/17 16:08	
Bromochloromethane	ug/L	<0.17	1.0	0.17	10/18/17 16:08	
Bromodichloromethane	ug/L	<0.18	1.0	0.18	10/18/17 16:08	
Bromoform	ug/L	<0.26	1.0	0.26	10/18/17 16:08	
Bromomethane	ug/L	<0.29	2.0	0.29	10/18/17 16:08	
Carbon tetrachloride	ug/L	<0.25	1.0	0.25	10/18/17 16:08	
Chlorobenzene	ug/L	<0.23	1.0	0.23	10/18/17 16:08	
Chloroethane	ug/L	<0.54	1.0	0.54	10/18/17 16:08	
Chloroform	ug/L	0.39J	1.0	0.14	10/18/17 16:08	C9
Chloromethane	ug/L	<0.11	1.0	0.11	10/18/17 16:08	
cis-1,2-Dichloroethene	ug/L	<0.19	1.0	0.19	10/18/17 16:08	
cis-1,3-Dichloropropene	ug/L	<0.13	1.0	0.13	10/18/17 16:08	
Dibromochloromethane	ug/L	<0.21	1.0	0.21	10/18/17 16:08	
Dibromomethane	ug/L	<0.21	1.0	0.21	10/18/17 16:08	
Dichlorodifluoromethane	ug/L	<0.21	1.0	0.21	10/18/17 16:08	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

METHOD BLANK: 2122473 Matrix: Water
Associated Lab Samples: 92359173010, 92359173011, 92359173012, 92359173013, 92359173014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<0.12	1.0	0.12	10/18/17 16:08	
Ethylbenzene	ug/L	<0.30	1.0	0.30	10/18/17 16:08	
Hexachloro-1,3-butadiene	ug/L	<0.71	1.0	0.71	10/18/17 16:08	
m&p-Xylene	ug/L	<0.66	2.0	0.66	10/18/17 16:08	
Methyl-tert-butyl ether	ug/L	<0.21	1.0	0.21	10/18/17 16:08	
Methylene Chloride	ug/L	<0.97	2.0	0.97	10/18/17 16:08	
Naphthalene	ug/L	<0.24	1.0	0.24	10/18/17 16:08	
o-Xylene	ug/L	<0.23	1.0	0.23	10/18/17 16:08	
p-Isopropyltoluene	ug/L	<0.31	1.0	0.31	10/18/17 16:08	
Styrene	ug/L	<0.26	1.0	0.26	10/18/17 16:08	
Tetrachloroethene	ug/L	<0.46	1.0	0.46	10/18/17 16:08	
Toluene	ug/L	<0.26	1.0	0.26	10/18/17 16:08	
trans-1,2-Dichloroethene	ug/L	<0.49	1.0	0.49	10/18/17 16:08	
trans-1,3-Dichloropropene	ug/L	<0.26	1.0	0.26	10/18/17 16:08	
Trichloroethene	ug/L	<0.47	1.0	0.47	10/18/17 16:08	
Trichlorofluoromethane	ug/L	<0.20	1.0	0.20	10/18/17 16:08	
Vinyl acetate	ug/L	<0.35	2.0	0.35	10/18/17 16:08	
Vinyl chloride	ug/L	<0.62	1.0	0.62	10/18/17 16:08	
Xylene (Total)	ug/L	<1.0	1.0	1.0	10/18/17 16:08	
1,2-Dichloroethane-d4 (S)	%	95	70-130		10/18/17 16:08	
4-Bromofluorobenzene (S)	%	96	70-130		10/18/17 16:08	
Toluene-d8 (S)	%	110	70-130		10/18/17 16:08	

LABORATORY CONTROL SAMPLE: 2122474

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	51.7	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.0	92	70-130	
1,1,2-Trichloroethane	ug/L	50	46.9	94	70-130	
1,1-Dichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethene	ug/L	50	51.1	102	70-132	
1,1-Dichloropropene	ug/L	50	53.5	107	70-130	
1,2,3-Trichlorobenzene	ug/L	50	47.9	96	70-135	
1,2,3-Trichloropropane	ug/L	50	48.6	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.0	94	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.7	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene	ug/L	50	43.5	87	70-130	
1,2-Dichloroethane	ug/L	50	45.8	92	70-130	
1,2-Dichloropropane	ug/L	50	49.9	100	70-130	
1,3-Dichlorobenzene	ug/L	50	41.9	84	70-130	
1,3-Dichloropropane	ug/L	50	52.1	104	70-130	
1,4-Dichlorobenzene	ug/L	50	41.2	82	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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

LABORATORY CONTROL SAMPLE: 2122474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	52.3	105	58-145	
2-Butanone (MEK)	ug/L	100	101	101	70-145	
2-Chlorotoluene	ug/L	50	41.6	83	70-130	
2-Hexanone	ug/L	100	98.3	98	70-144	
4-Chlorotoluene	ug/L	50	40.6	81	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	89.0	89	70-140	
Acetone	ug/L	100	95.6	96	50-175	
Benzene	ug/L	50	49.3	99	70-130	
Bromobenzene	ug/L	50	46.4	93	70-130	
Bromochloromethane	ug/L	50	48.4	97	70-130	
Bromodichloromethane	ug/L	50	47.2	94	70-130	
Bromoform	ug/L	50	47.0	94	70-130	
Bromomethane	ug/L	50	47.6	95	54-130	
Carbon tetrachloride	ug/L	50	47.0	94	70-132	
Chlorobenzene	ug/L	50	46.1	92	70-130	
Chloroethane	ug/L	50	49.4	99	64-134	
Chloroform	ug/L	50	47.1	94	70-130	
Chloromethane	ug/L	50	44.6	89	64-130	
cis-1,2-Dichloroethene	ug/L	50	51.5	103	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Dibromochloromethane	ug/L	50	48.3	97	70-130	
Dibromomethane	ug/L	50	46.5	93	70-131	
Dichlorodifluoromethane	ug/L	50	39.6	79	56-130	
Diisopropyl ether	ug/L	50	50.9	102	70-130	
Ethylbenzene	ug/L	50	44.9	90	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.3	95	70-130	
m&p-Xylene	ug/L	100	86.6	87	70-130	
Methyl-tert-butyl ether	ug/L	50	51.2	102	70-130	
Methylene Chloride	ug/L	50	49.7	99	63-130	
Naphthalene	ug/L	50	47.9	96	70-138	
o-Xylene	ug/L	50	43.0	86	70-130	
p-Isopropyltoluene	ug/L	50	43.8	88	70-130	
Styrene	ug/L	50	42.7	85	70-130	
Tetrachloroethene	ug/L	50	45.8	92	70-130	
Toluene	ug/L	50	45.1	90	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.6	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.5	95	70-132	
Trichloroethene	ug/L	50	50.8	102	70-130	
Trichlorofluoromethane	ug/L	50	43.9	88	62-133	
Vinyl acetate	ug/L	100	100	100	66-157	
Vinyl chloride	ug/L	50	54.2	108	50-150	
Xylene (Total)	ug/L	150	130	86	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			97	70-130	

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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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

MATRIX SPIKE SAMPLE: 2122477

Parameter	Units	92359278024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	17.7	89	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	22.9	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	18.5	92	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.0	100	70-130	
1,1-Dichloroethane	ug/L	ND	20	21.9	109	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.2	116	70-166	
1,1-Dichloropropene	ug/L	ND	20	22.2	111	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	17.9	90	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	18.9	94	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	17.7	88	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.2	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	18.9	95	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	17.9	90	70-130	
1,2-Dichloroethane	ug/L	ND	20	20.4	102	70-130	
1,2-Dichloropropane	ug/L	ND	20	20.8	104	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	17.0	85	70-130	
1,3-Dichloropropane	ug/L	ND	20	19.2	96	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	16.1	80	70-130	
2,2-Dichloropropane	ug/L	ND	20	20.7	104	70-130	
2-Butanone (MEK)	ug/L	ND	40	38.8	97	70-130	
2-Chlorotoluene	ug/L	ND	20	17.8	89	70-130	
2-Hexanone	ug/L	ND	40	34.7	87	70-130	
4-Chlorotoluene	ug/L	ND	20	16.6	83	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	36.6	91	70-130	
Acetone	ug/L	ND	40	40.2	101	70-130	
Benzene	ug/L	ND	20	21.6	108	70-148	
Bromobenzene	ug/L	ND	20	18.6	93	70-130	
Bromochloromethane	ug/L	ND	20	20.9	105	70-130	
Bromodichloromethane	ug/L	ND	20	21.0	105	70-130	
Bromoform	ug/L	ND	20	18.0	90	70-130	
Bromomethane	ug/L	ND	20	16.0	80	70-130	
Carbon tetrachloride	ug/L	ND	20	21.2	106	70-130	
Chlorobenzene	ug/L	ND	20	18.2	91	70-146	
Chloroethane	ug/L	ND	20	22.4	112	70-130	
Chloroform	ug/L	ND	20	20.9	105	70-130	
Chloromethane	ug/L	ND	20	20.4	102	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	22.1	111	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	18.8	94	70-130	
Dibromochloromethane	ug/L	ND	20	18.7	94	70-130	
Dibromomethane	ug/L	ND	20	19.9	99	70-130	
Dichlorodifluoromethane	ug/L	ND	20	17.7	89	70-130	
Diisopropyl ether	ug/L	ND	20	20.2	101	70-130	
Ethylbenzene	ug/L	ND	20	18.1	91	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	17.4	87	70-130	
m&p-Xylene	ug/L	ND	40	35.2	88	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.8	99	70-130	
Methylene Chloride	ug/L	ND	20	21.4	107	70-130	

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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: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

MATRIX SPIKE SAMPLE: 2122477

Parameter	Units	92359278024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	17.1	85	70-130	
o-Xylene	ug/L	ND	20	17.5	87	70-130	
p-Isopropyltoluene	ug/L	ND	20	17.4	87	70-130	
Styrene	ug/L	ND	20	16.5	83	70-130	
Tetrachloroethene	ug/L	0.64J	20	18.4	89	70-130	
Toluene	ug/L	ND	20	19.9	99	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	22.3	111	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	18.0	90	70-130	
Trichloroethene	ug/L	ND	20	22.0	110	69-151	
Trichlorofluoromethane	ug/L	ND	20	20.9	105	70-130	
Vinyl acetate	ug/L	ND	40	32.7	82	70-130	
Vinyl chloride	ug/L	ND	20	23.9	120	70-130	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 2122479

Parameter	Units	92359278025 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	<0.33		30	
1,1,1-Trichloroethane	ug/L	ND	<0.48		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	<0.40		30	
1,1,2-Trichloroethane	ug/L	ND	<0.29		30	
1,1-Dichloroethane	ug/L	ND	<0.32		30	
1,1-Dichloroethene	ug/L	ND	<0.56		30	
1,1-Dichloropropene	ug/L	ND	<0.49		30	
1,2,3-Trichlorobenzene	ug/L	ND	<0.33		30	
1,2,3-Trichloropropane	ug/L	ND	<0.41		30	
1,2,4-Trichlorobenzene	ug/L	ND	<0.35		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	<2.0		30	
1,2-Dibromoethane (EDB)	ug/L	ND	<0.27		30	
1,2-Dichlorobenzene	ug/L	ND	<0.30		30	
1,2-Dichloroethane	ug/L	ND	<0.24		30	
1,2-Dichloropropane	ug/L	ND	<0.27		30	
1,3-Dichlorobenzene	ug/L	ND	<0.24		30	
1,3-Dichloropropane	ug/L	ND	<0.28		30	
1,4-Dichlorobenzene	ug/L	ND	<0.33		30	
2,2-Dichloropropane	ug/L	ND	<0.13		30	
2-Butanone (MEK)	ug/L	ND	<0.96		30	
2-Chlorotoluene	ug/L	ND	<0.35		30	
2-Hexanone	ug/L	ND	<0.46		30	
4-Chlorotoluene	ug/L	ND	<0.31		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	<0.33		30	
Acetone	ug/L	ND	<10.0		30	
Benzene	ug/L	ND	<0.25		30	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

SAMPLE DUPLICATE: 2122479

Parameter	Units	92359278025 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	<0.30		30	
Bromochloromethane	ug/L	ND	<0.17		30	
Bromodichloromethane	ug/L	ND	<0.18		30	
Bromoform	ug/L	ND	<0.26		30	
Bromomethane	ug/L	ND	<0.29		30	
Carbon tetrachloride	ug/L	ND	<0.25		30	
Chlorobenzene	ug/L	ND	<0.23		30	
Chloroethane	ug/L	ND	<0.54		30	
Chloroform	ug/L	ND	<0.14		30	
Chloromethane	ug/L	ND	<0.11		30	
cis-1,2-Dichloroethene	ug/L	0.42J	0.39J		30	
cis-1,3-Dichloropropene	ug/L	ND	<0.13		30	
Dibromochloromethane	ug/L	ND	<0.21		30	
Dibromomethane	ug/L	ND	<0.21		30	
Dichlorodifluoromethane	ug/L	ND	<0.21		30	
Diisopropyl ether	ug/L	ND	<0.12		30	
Ethylbenzene	ug/L	ND	<0.30		30	
Hexachloro-1,3-butadiene	ug/L	ND	<0.71		30	
m&p-Xylene	ug/L	ND	<0.66		30	
Methyl-tert-butyl ether	ug/L	ND	<0.21		30	
Methylene Chloride	ug/L	ND	<0.97		30	
Naphthalene	ug/L	ND	<0.24		30	
o-Xylene	ug/L	ND	<0.23		30	
p-Isopropyltoluene	ug/L	ND	<0.31		30	
Styrene	ug/L	ND	<0.26		30	
Tetrachloroethene	ug/L	2.4	2.2	8	30	
Toluene	ug/L	ND	<0.26		30	
trans-1,2-Dichloroethene	ug/L	ND	<0.49		30	
trans-1,3-Dichloropropene	ug/L	ND	<0.26		30	
Trichloroethene	ug/L	1.2	1.2	1	30	
Trichlorofluoromethane	ug/L	ND	<0.20		30	
Vinyl acetate	ug/L	ND	<0.35		30	
Vinyl chloride	ug/L	ND	<0.62		30	
Xylene (Total)	ug/L	ND	<1.0		30	
1,2-Dichloroethane-d4 (S)	%	94	93	2		
4-Bromofluorobenzene (S)	%	95	97	2		
Toluene-d8 (S)	%	108	109	1		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALIFIERS

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

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.

TNTC - Too Numerous To Count

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

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CMC Athens- Geoprobe GW invest
Pace Project No.: 92359173

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92359173001	**GW-1 (55)**	EPA 8260	382931		
92359173002	**GW-1 (74)**	EPA 8260	382931		
92359173003	**GW-2 (50)**	EPA 8260	382931		
92359173004	**GW-2 (71)**	EPA 8260	382931		
92359173005	**GW-3 (50)**	EPA 8260	382809		
92359173006	**GW-3 (70)**	EPA 8260	382809		
92359173007	**GW-4 (50)**	EPA 8260	382809		
92359173008	**GW-4 (70)**	EPA 8260	382809		
92359173009	**GW-5 (29)**	EPA 8260	382931		
92359173010	**GW-5 (52)**	EPA 8260	382969		
92359173011	**GW-6 (55)**	EPA 8260	382969		
92359173012	**GW-6 (74)**	EPA 8260	382969		
92359173013	**GW-Dup-01**	EPA 8260	382969		
92359173014	**GW-Dup-02**	EPA 8260	382969		
92359173015	**Trip Blank**	EPA 8260	382809		

Pace Analytical™	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: August 4, 2017 Page 1 of 2
	Document No.: **F-CAR-CS-033-Rev.04**	Issuing Authority: Pace Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: Apex Companies

Project **WO# : 92359173**

92359173

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

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

Date/Initials Person Examining Contents: LD 10.13.17

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID: T1701 ☒ Wet ☐ Blue ☐ None

Type of Ice:

Correction Factor: **Cooler Temp Corrected (°C):** 5.8

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

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.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No	☐ N/A	9.
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: _____

Lot ID of split containers: _____

Project Manager SCURF Review: _____ **Date:** 10/13/17

Project Manager SRF Review: TC **Date:** 10/17/17

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)

*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 # (1)

WO#: 92359173

PM: RWC Due Date: 10/20/17

CLIENT: 92-APEX MOOR

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)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 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																1													
2																3													
3																3													
4																3													
5																3													
6																3													
7																3													
8																3													
9																3													
10																3													
11																3													
12																3													

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 #

***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 # (2)

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)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 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																4													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

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 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: APEX Companies - NC	Report To: Grant Watkins	Attention:	
Address: 1135 Kildaire Farm Rd.	Copy To:	Company Name:	Regulatory Agency
Cary, NC 27511		Address:	
Email: grant.watkins@apexcos.com	Purchase Order #:	Pace Quote:	
Phone: 980-417-9935 Fax	Project Name: CMC Athens - Geoprobe GW investigation	Pace Project Manager: trey.carter@pacelabs.com,	State / Location
Requested Due Date: Std	Project #:	Pace Profile #: 8490-1	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 Full List	Trip BLANK	Residual Chlorine (Y/N)	92359173
1	GW-1 (55)	WT	G			10/11	1525		3				X					X	X			001
2	GW-1 (74)	WT	G			10/11	1615		3				X					X	X			002
3	GW-2 (50)	WT	G			10/10	1205		3				X					X	X			003
4	GW-2 (71)	WT	G			10/10	1410		3				X					X	X			004
5	GW-3 (50)	WT	G			10/12	920		3				X					X	X			005
6	GW-3 (70)	WT	G			10/12	1010		3				X					X	X			006
7	GW-4 (50)	WT	G			10/10	1600		3				X					X	X			007
8	GW-4 (70)	WT	G			10/10	1635		3				X					X	X			008
9	GW-5 (29)	WT	G			10/11	835		3				X					X	X			009
10	GW-5 (52)	WT	G			10/11	915		3				X					X	X			010
11	GW-6 (55)	WT	G			10/11	1120		3				X					X	X			011
12	GW-6 (74)	WT	G			10/11	1320		3				X					X	X			012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Thomas Fisher/Apex	10/13/17	1600	[signature] ATL	10/13/17	1600	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Thomas Fisher

SIGNATURE of SAMPLER: [signature] DATE Signed: 10/13/17

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
0.5	Y	N	Y

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 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	APEX Companies - NC	Report To:	Grant Watkins	Attention:	
Address:	1135 Kildaire Farm Rd.	Copy To:		Company Name:	
Cary, NC 27511				Address:	
Email:	grant.watkins@apexcos.com	Purchase Order #:		Pace Quote:	
Phone:	980-417-9935 Fax	Project Name:	CMC Athens - Geoprobe GW investigation	Pace Project Manager:	trey.carter@pacelabs.com,
Requested Due Date:	STD	Project #:		Pace Profile #:	8490-1

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 Full List	Trip BLANK	Residual Chlorine (Y/N)	92359173
1	GW-Dup-01	WT	G			10/10	-		3				X						X			013
2	GW-Dup-02	WT	G			10/11	-		3				X						X			014
3	Trip Blank	WT	G			-	-		2				X							X		015
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Thomas Fisher/Apex	10/13/17	1660		10-13-17	1660	5-8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Thomas Fisher

SIGNATURE of SAMPLER: Thomas Fisher DATE Signed: 10/13/17

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

APPENDIX D

EPA VISL CALCULATOR RESULTS (MW-1 AND MW-11)

OSWER VAPOR INTRUSION ASSESSMENT
Vapor Intrusion Screening Level (VISL) Calculator Version 3.5, June 2017 RSLs

The primary objective of risk-based screening is to identify sites or buildings unlikely to pose a health concern through the vapor intrusion pathway. Generally, at properties where subsurface concentrations of vapor-forming chemicals (e.g., groundwater or "near source" soil gas concentrations) fall below screening levels (i.e., VISLs), no further action or study is warranted, so long as the exposure assumptions match those taken into account by the calculations and the site fulfills the conditions and assumptions of the generic conceptual model underlying the screening levels. In a similar fashion, the results of risk-based screening can help the data review team identify areas, buildings, and/or chemicals that can be eliminated from further assessment. The generic conceptual model underlying these screening levels is described in OSWER Publication 9200.2-154 (OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway From Subsurface Vapor Sources to Indoor Air) (EPA 2015; Section 6.5)

MW-1

Parameter	Value	Instructions
Exposure Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	1.00E-06	Enter target risk for carcinogens
Target Hazard Quotient for Non-Carcinogens	1	Enter target hazard quotient for non-carcinogens
Average Groundwater Temperature (°C)	24	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

CAS	Chemical Name	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1) Yes/No	Does chemical have inhalation toxicity data? (IUR and/or RfC) Yes/No	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? Chc > Cia,target? Yes/No	Target Indoor Air Conc. @ TCR = 1E-06 or THQ = 1 MIN(Cia,c;Cia,nc) (ug/m^3)	Toxicity Basis C/NC	Target Sub-Slab and Exterior Soil Gas Conc. @ TCR = 1E-06 or THQ = 1 Csg (ug/m^3)	Target Ground Water Conc. @ TCR = 1E-06 or THQ = 1 Cgw (ug/L)	Is Target Ground Water Conc. < MCL? Cgw<MCL? Yes/No (MCL ug/L)	Pure Phase Vapor Conc. @ 25°C Cvp (ug/m^3)	Maximum Groundwater Vapor Conc. Chc (ug/m^3)	Temperature for Max. Groundwater Vapor Conc. Tgw or 25 C	Lower Explosive Limit** LEL (% by vol)	LEL Source	Inhalation Unit Risk IUR (ug/m^3)$^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06 Cia,c (ug/m^3)	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 1 Cia,nc (ug/m^3)
71-43-2	Benzene	Yes	Yes	Yes	1.6E+00	C	5.2E+01	7.3E+00	No (5)	3.98E+08	3.88E+08	24	1.2	N	7.80E-06	I	3.00E-02	I		1.6E+00	1.3E+02
67-66-3	Chloroform	Yes	Yes	Yes	5.3E-01	C	1.8E+01	3.7E+00	Yes (8.0E+01(F))	1.27E+09	1.14E+09	24			2.30E-05	I	9.80E-02	A		5.3E-01	4.3E+02
75-34-3	Dichloroethane, 1,1-	Yes	Yes	Yes	7.7E+00	C	2.6E+02	3.5E+01	--	1.21E+09	1.11E+09	24	5.4	N	1.60E-06	CA				7.7E+00	
75-35-4	Dichloroethylene, 1,1-	Yes	Yes	Yes	8.8E+02	NC	2.9E+04	8.5E+02	No (7)	3.13E+09	2.49E+09	24	6.5	N			2.00E-01	I			8.8E+02
156-59-2	Dichloroethylene, 1,2-cis-	Yes	No	No Inhal. Tox. Info	--	--	--	--	No (70)	1.04E+09	1.02E+09	24	9.7	M							
75-09-2	Methylene Chloride	Yes	Yes	Yes	1.2E+03	C	4.1E+04	9.6E+03	No (5)	1.99E+09	1.66E+09	24	13	N	1.00E-08	I	6.00E-01	I	Mut	1.2E+03	2.6E+03
127-18-4	Tetrachloroethylene	Yes	Yes	Yes	4.7E+01	C	1.6E+03	6.9E+01	No (5)	1.65E+08	1.41E+08	24			2.60E-07	I	4.00E-02	I		4.7E+01	1.8E+02
79-01-6	Trichloroethylene	Yes	Yes	Yes	3.0E+00	C	1.0E+02	7.8E+00	No (5)	4.88E+08	4.91E+08	24	8	N	see note	I	2.00E-03	I	TCE	3.0E+00	8.8E+00
95-47-6	Xylene, o-	Yes	Yes	Yes	4.4E+02	NC	1.5E+04	2.2E+03	--	3.78E+07	3.56E+07	24		N			1.00E-01	S			4.4E+02

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

Exposure Scenario	Units	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario in cell G10) Symbol	Selected Value
Averaging time for carcinogens	(yrs)	ATc_R	70	ATc_C	70	ATc	70
Averaging time for non-carcinogens	(yrs)	ATnc_R	26	ATnc_C	25	ATnc	25
Exposure duration	(yrs)	ED_R	26	ED_C	25	ED	25
Exposure frequency	(days/yr)	EF_R	350	EF_C	250	EF	250
Exposure time	(hr/day)	ET_R	24	ET_C	8	ET	8

(2) **Generic Attenuation Factors:**

Source Medium of Vapors	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario in cell G10) Symbol	Selected Value
Groundwater	AFgw_R	0.001	AFgw_C	0.001	AFgw	0.001
Sub-Slab and Exterior Soil Gas	AFss_R	0.03	AFss_C	0.03	AFss	0.03

(3) **Formulas**
Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**
Trichloroethylene

	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario in cell G10) Symbol	Selected Value
mIURTCE_R		1.00E-06	mIURTCE_C	0.00E+00	mIURTCE	0.00E+00
IURTCE_R		3.10E-06	IURTCE_C	4.10E-06	IURTCE	4.10E-06

Mutagenic Chemicals

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration (years)	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Notation:
NVT = Not sufficiently volatile and/or toxic to pose inhalation risk in selected exposure scenario for the indicated medium
C = Carcinogenic
NC = Non-carcinogenic
I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml
A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: http://www.atsdr.cdc.gov/mrls/index.html
CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: http://epa-heast.ornl.gov/heast.shtml
S = See RSL User Guide, Section 5
X = PPRTV Appendix
E = The Engineering ToolBox. Available online at http://www.engineeringtoolbox.com/explosive-concentration-limits-d 423.html
N = Centers for Disease Control and Prevention (CDC) National Institute for Occupational Safety and Health (NIOSH). Pocket Guide to Chemical Hazards. Available online at: http://www.cdc.gov/niosh/npg/default.html http://www.cdc.gov/niosh/npg/default.html
M = Chemical-specific MSDS
Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
**Lower explosive limit is the minimum concentration of the compound in air (% by volume) that is needed for the gas to ignite and explode.

OSWER VAPOR INTRUSION ASSESSMENT
Groundwater Concentration to Indoor Air Concentration (GWC-IAC) Calculator Version 3.5, June 2017 RSLs
MW-1

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-06	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)
Average Groundwater Temperature (°C)	Tgw	24	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

CAS	Chemical Name	Site Groundwater Concentration Cgw (ug/L)	Calculated Indoor Air Concentration Cia (ug/m³)	VI Carcinogenic Risk CR	VI Hazard HQ	Inhalation Unit Risk IUR (ug/m³)⁻¹	IUR Source*	Reference Concentration RfC (mg/m³)	RFC Source*	Mutagenic Indicator i
71-43-2	Benzene	1.7E+00	3.69E-01	2.3E-07	2.8E-03	7.80E-06	I	3.00E-02	I	
67-66-3	Chloroform	1.9E+01	2.75E+00	**5.2E-06**	6.4E-03	2.30E-05	I	9.80E-02	A	
75-34-3	Dichloroethane, 1,1-	1.1E+00	2.42E-01	3.2E-08	No RfC	1.60E-06	CA			
75-35-4	Dichloroethylene, 1,1-	1.0E+00	1.03E+00	No IUR	1.2E-03			2.00E-01	I	
75-09-2	Methylene Chloride	1.5E+00	1.92E-01	1.6E-10	7.3E-05	1.00E-08	I	6.00E-01	I	Mut
127-18-4	Tetrachloroethylene	1.7E+00	1.17E+00	2.5E-08	6.7E-03	2.60E-07	I	4.00E-02	I	
79-01-6	Trichloroethylene	1.8E+00	6.91E-01	2.3E-07	7.9E-02	see note	I	2.00E-03	I	TCE
95-47-6	Xylene, o-	2.6E-01	5.20E-02	No IUR	1.2E-04			1.00E-01	S	

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

Exposure Scenario	Units	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Averaging time for carcinogens	(yrs)	ATc_R_GW	70	ATc_C_GW	70	ATc_GW	70
Averaging time for non-carcinogens	(yrs)	ATnc_R_GW	26	ATnc_C_GW	25	Atnc_GW	25
Exposure duration	(yrs)	ED_R_GW	26	ED_C_GW	25	ED_GW	25
Exposure frequency	(days/yr)	EF_R_GW	350	EF_C_GW	250	EF_GW	250
Exposure time	(hr/day)	ET_R_GW	24	ET_C_GW	8	ET_GW	8

(2) **Generic Attenuation Factors:**

Source Medium of Vapors	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Groundwater (-)	AFgw_R_GW	0.001	AFgw_C_GW	0.001	AFgw_GW	0.001
Sub-Slab and Exterior Soil Gas (-)	AFss_R_GW	0.03	AFss_C_GW	0.03	AFss_GW	0.03

(3) **Formulas**
Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

Trichloroethylene

	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
mIURTCE_R_GW		1.00E-06	IURTCE_C_GW	0.00E+00	mIURTCE_GW	0.00E+00
IURTCE_R_GW		3.10E-06	IURTCE_C_GW	4.10E-06	IURTCE_GW	4.10E-06

Mutagenic Chemicals — The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride — See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:
I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml
A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: http://www.atsdr.cdc.gov/mrls/index.html
CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: http://epa-heast.ornl.gov/heast.shtml
S = See RSL User Guide, Section 5
X = PPRTV Appendix
Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
Pink highlighting indicates VI carcinogenic risk greater than the target risk for carcinogens (TCR) or VI Hazard greater than or equal to the target hazard quotient for non-carcinogens (THQ).

OSWER VAPOR INTRUSION ASSESSMENT
Vapor Intrusion Screening Level (VISL) Calculator Version 3.5, June 2017 RSLs

The primary objective of risk-based screening is to identify sites or buildings unlikely to pose a health concern through the vapor intrusion pathway. Generally, at properties where subsurface concentrations of vapor-forming chemicals (e.g., groundwater or "near source" soil gas concentrations) fall below screening levels (i.e., VISLs), no further action or study is warranted, so long as the exposure assumptions match those taken into account by the calculations and the site fulfills the conditions and assumptions of the generic conceptual model underlying the screening levels. In a similar fashion, the results of risk-based screening can help the data review team identify areas, buildings, and/or chemicals that can be eliminated from further assessment. The generic conceptual model underlying these screening levels is described in OSWER Publication 9200.2-154 (OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway From Subsurface Vapor Sources to Indoor Air) (EPA 2015; Section 6.5)

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Parameter	Value	Instructions
Exposure Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	1.00E-06	Enter target risk for carcinogens
Target Hazard Quotient for Non-Carcinogens	1	Enter target hazard quotient for non-carcinogens
Average Groundwater Temperature (^{o}C)	24	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

CAS	Chemical Name	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1) Yes/No	Does chemical have inhalation toxicity data? (IUR and/or RfC) Yes/No	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? Chc > Cia,target? Yes/No	Target Indoor Air Conc. @ TCR = 1E-06 or THQ = 1 MIN(Cia,c;Cia,nc) (ug/m^3)	Toxicity Basis C/NC	Target Sub-Slab and Exterior Soil Gas Conc. @ TCR = 1E-06 or THQ = 1 Csg (ug/m^3)	Target Ground Water Conc. @ TCR = 1E-06 or THQ = 1 Cgw (ug/L)	Is Target Ground Water Conc. < MCL? Cgw<MCL? Yes/No (MCL ug/L)	Pure Phase Vapor Conc. @ 25^{o}C Cvp (ug/m^3)	Maximum Groundwater Vapor Conc. Chc (ug/m^3)	Temperature for Max. Groundwater Vapor Conc. Tgw or 25 C	Lower Explosive Limit** LEL (% by vol)	LEL Source		Inhalation Unit Risk IUR (ug/m^3)$^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06 Cia,c (ug/m^3)	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 1 Cia,nc (ug/m^3)
71-43-2	Benzene	Yes	Yes	Yes	1.6E+00	C	5.2E+01	7.3E+00	No (5)	3.98E+08	3.88E+08	24	1.2	N		7.80E-06	I	3.00E-02	I		1.6E+00	1.3E+02
67-66-3	Chloroform	Yes	Yes	Yes	5.3E-01	C	1.8E+01	3.7E+00	Yes (8.0E+01(F))	1.27E+09	1.14E+09	24				2.30E-05	I	9.80E-02	A		5.3E-01	4.3E+02
75-35-4	Dichloroethylene, 1,1-	Yes	Yes	Yes	8.8E+02	NC	2.9E+04	8.5E+02	No (7)	3.13E+09	2.49E+09	24	6.5	N				2.00E-01	I			8.8E+02
156-59-2	Dichloroethylene, 1,2-cis-	Yes	No	No Inhal. Tox. Info	--	--	--	--	No (70)	1.04E+09	1.02E+09	24	9.7	M								
75-09-2	Methylene Chloride	Yes	Yes	Yes	1.2E+03	C	4.1E+04	9.6E+03	No (5)	1.99E+09	1.66E+09	24	13	N		1.00E-08	I	6.00E-01	I	Mut	1.2E+03	2.6E+03
127-18-4	Tetrachloroethylene	Yes	Yes	Yes	4.7E+01	C	1.6E+03	6.9E+01	No (5)	1.65E+08	1.41E+08	24				2.60E-07	I	4.00E-02	I		4.7E+01	1.8E+02
79-01-6	Trichloroethylene	Yes	Yes	Yes	3.0E+00	C	1.0E+02	7.8E+00	No (5)	4.88E+08	4.91E+08	24	8	N		see note	I	2.00E-03	I	TCE	3.0E+00	8.8E+00

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

Exposure Scenario	Units	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario in cell G10) Symbol	Selected Value
Averaging time for carcinogens	(yrs)	ATc_R	70	ATc_C	70	ATc	70
Averaging time for non-carcinogens	(yrs)	ATnc_R	26	ATnc_C	25	ATnc	25
Exposure duration	(yrs)	ED_R	26	ED_C	25	ED	25
Exposure frequency	(days/yr)	EF_R	350	EF_C	250	EF	250
Exposure time	(hr/day)	ET_R	24	ET_C	8	ET	8

(2) **Generic Attenuation Factors:**

Source Medium of Vapors		Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario in cell G10) Symbol	Selected Value
Groundwater	(-)	AFgw_R	0.001	AFgw_C	0.001	AFgw	0.001
Sub-Slab and Exterior Soil Gas	(-)	AFss_R	0.03	AFss_C	0.03	AFss	0.03

(3) **Formulas**
Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

Trichloroethylene		Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario in cell G10) Symbol	Selected Value
		mIURTCE_R	1.00E-06	mIURTCE_C	0.00E+00	mIURTCE	0.00E+00
		IURTCE_R	3.10E-06	IURTCE_C	4.10E-06	IURTCE	4.10E-06

Mutagenic Chemicals

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration (years)	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Notation:
NVT = Not sufficiently volatile and/or toxic to pose inhalation risk in selected exposure scenario for the indicated medium
C = Carcinogenic
NC = Non-carcinogenic
I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml
A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: http://www.atsdr.cdc.gov/mrls/index.html
CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: http://epa-heast.ornl.gov/heast.shtml
S = See RSL User Guide, Section 5
X = PPRTV Appendix
E = The Engineering ToolBox. Available online at http://www.engineeringtoolbox.com/explosive-concentration-limits-d 423.html
N = Centers for Disease Control and Prevention (CDC) National Institute for Occupational Safety and Health (NIOSH). Pocket Guide to Chemical Hazards. Available online at: http://www.cdc.gov/niosh/npg/default.html http://www.cdc.gov/niosh/npg/default.html
M = Chemical-specific MSDS
Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
**Lower explosive limit is the minimum concentration of the compound in air (% by volume) that is needed for the gas to ignite and explode.

OSWER VAPOR INTRUSION ASSESSMENT
Groundwater Concentration to Indoor Air Concentration (GWC-IAC) Calculator Version 3.5, June 2017 RSLs
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Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-06	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)
Average Groundwater Temperature (^{o}C)	Tgw	20.4	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

CAS	Chemical Name	Site Groundwater Concentration Cgw (ug/L)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Inhalation Unit Risk IUR ($(ug/m^3)^{-1}$)	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
71-43-2	Benzene	1.3E+01	2.33E+00	**1.5E-06**	1.8E-02	7.80E-06	I	3.00E-02	I	
67-66-3	Chloroform	1.6E+00	1.97E-01	3.7E-07	4.6E-04	2.30E-05	I	9.80E-02	A	
75-35-4	Dichloroethylene, 1,1-	7.8E+00	7.04E+00	No IUR	8.0E-03			2.00E-01	I	
75-09-2	Methylene Chloride	1.1E+01	1.19E+00	9.7E-10	4.5E-04	1.00E-08	I	6.00E-01	I	Mut
127-18-4	Tetrachloroethylene	3.6E+00	2.03E+00	4.3E-08	1.2E-02	2.60E-07	I	4.00E-02	I	
79-01-6	Trichloroethylene	4.5E+02	1.45E+02	**4.8E-05**	**1.7E+01**	see note	I	2.00E-03	I	TCE

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

Exposure Scenario	Units	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Averaging time for carcinogens	(yrs)	ATc_R_GW	70	ATc_C_GW	70	ATc_GW	70
Averaging time for non-carcinogens	(yrs)	ATnc_R_GW	26	ATnc_C_GW	25	Atnc_GW	25
Exposure duration	(yrs)	ED_R_GW	26	ED_C_GW	25	ED_GW	25
Exposure frequency	(days/yr)	EF_R_GW	350	EF_C_GW	250	EF_GW	250
Exposure time	(hr/day)	ET_R_GW	24	ET_C_GW	8	ET_GW	8

(2) **Generic Attenuation Factors:**

Source Medium of Vapors		Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Groundwater	(-)	AFgw_R_GW	0.001	AFgw_C_GW	0.001	AFgw_GW	0.001
Sub-Slab and Exterior Soil Gas	(-)	AFss_R_GW	0.03	AFss_C_GW	0.03	AFss_GW	0.03

(3) **Formulas**
Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

Trichloroethylene	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
	mIURTCE_R_GW	1.00E-06	IURTCE_C_GW	0.00E+00	mIURTCE_GW	0.00E+00
	IURTCE_R_GW	3.10E-06	IURTCE_C_GW	4.10E-06	IURTCE_GW	4.10E-06

Mutagenic Chemicals — The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride — See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:
I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml
A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: http://www.atsdr.cdc.gov/mrls/index.html
CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: http://epa-heast.ornl.gov/heast.shtml
S = See RSL User Guide, Section 5
X = PPRTV Appendix
Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
Pink highlighting indicates VI carcinogenic risk greater than the target risk for carcinogens (TCR) or VI Hazard greater than or equal to the target hazard quotient for non-carcinogens (THQ).

APPENDIX E

SUMMARY OF HOURS INVOICED

APPENDIX E

Monthly Summary and Description of Georgia Professional Geologist Hours
October 2017 through January 2018
Former Loef Facility
Athens, Georgia
VRP Site No. 802705980

Kathleen Roush, P.G. (Georgia PG Registration No. 1799)		
Monthly Period	**Total Hours**	**Description of VRP Work**
October 2017	1.0	Consult with project team and review work plan.
November 2017	0.0	-
December 2017	0.0	-
January 2018	8.00	Conference call with GA-EPD and client. Worked on draft of 7th Progress Report. Reviewed and certified final 7th Progress Report.

Note: Georgia Professional Geologist hours from September 2017 were recorded in the 6th Progress Report submitted to GA-EPD.